CLASSMATE

BIOGRAPHIES
David Jeffrey Abeshouse

Course: VIII

Tell us about your recollections of your student years at MIT:

I lived in Student House, which is essentially on the B.U. campus. If I recall correctly, it was a mile walk to MIT. That walk, in all kinds of weather, is one of my strongest, if not favorable, memories of my years there. Unless something unusual happened, I made the round trip just once a day. Student House is near Kenmore Square and Fenway Park. The gates to Fenway would open in the sixth inning then, and there were mostly afternoon games, so we would go up to the park occasionally to see, for free, the last three innings. We saw Ted Williams regularly. Student House was also next to the Charles, and it was fun to go down near the river in pleasant weather. I struggled to survive academically, but I did it. I don't remember the name of the professor who lectured our freshman chemistry course, but he spoke in a monotone, and I fell asleep practically every time. I finally went to a different lecture section. I have a poor sense of direction and was regularly lost around the campus and often rushing to get to class. Once in my sophomore year I was rushing and rounded a corner and almost flattened Norbert Wiener. He had a large abdomen, and, from my point of view, the collision was soft. The work on my senior paper was done in building 20. That was a fine place to spend a lot of time. My advisor was W. B. Nottingham. A group of his students got him a bottle of wine for a present once. (He had a refrigerator in the lab, but it had nothing to do with the work he led. It was for his wine.) When he got the bottle, in the nicest possible way he described how you look at a wine bottle and wine to tell if it was good, and our bottle really wasn't up to his standards but he was grateful. He had a farm, I think in Keene, NH, and he built his own rope tow, and we did some skiing there. I recall a "riot" once, but that was caused by the Beta house hanging Castro in effigy, and our president knows more about it than I do.

Tell us about your professional life and experiences since you graduated from MIT:

After college I went to work at Douglas Aircraft and worked on the development of the S-4 and S-4B stages of the Saturn rocket in the Apollo program for a few years. I then went to graduate school at Boston University and received a Master's and a Ph.D. degree in experimental low temperature physics. My thesis work was done as a visiting scientist at the Francis Bitter National Magnet Lab at MIT. I then taught one semester at Clark University and one semester at Boston University, all the while looking for a more permanent position. I got a one year appointment in the accelerator department at Brookhaven. After that, I finally found a job at the Johns Hopkins University Applied Physics Laboratory. The work involved assessing the reliability, accuracy, and performance of the US Navy's submarine launched ballistic missiles, that is, the Polaris, the Poseidon, the Trident I and Trident II missiles. Since it was classified, I couldn't bring it home with me, and suddenly had free time. While it was not exactly what I would have preferred, it was interesting, the people and the facility were great, and so I stayed. I occasionally taught in the Hopkins night school there. I retired in 2005.

Tell us about yourself and family and interests over the past 50 years:

I met my future wife while I was in graduate school. We married in November, 1965, on Thanksgiving weekend. We have three children, who have produced 6 wonderful grandchildren. Our children are in PA, UT, and RI, while we are in MD. I wish they were closer. I took up skiing while an undergraduate and try to get a week of skiing in every year. We just got back from a week at Loon Mountain in NH, which had good snow. I took up SCUBA diving in my late 40s and still occasionally do some diving. We enjoy traveling, and in the last few years have been to Mexico, Costa Rica, the Dominican Republic, Maine, Florida, Missouri, and probably some other places I don't recall. We have been and continue to be very active in the life of our synagogue. After I retired, I planned to get caught up on my reading, but still
haven't succeeded. As I suspect with most people who have reached our age, we have had our share of health problems, but right now we are enjoying good health.

Judith Brainard Allik

Course: XIII

Tell us about your recollections of your student years at MIT:

We "girls" lived on Bay State Road in Boston our freshman year. My most vivid memories were of trekking across the Mass Ave bridge in the cold and snow. My sophomore year I lived in an apartment in Copley Square so my "commuting" nightmares lived on. Junior and senior years I "graduated" to Bexley Hall so no more commute. The year after I graduated the women's dorm was opened - timing is everything in life! Being the only course XIII student, male or female, in the class of '62 my senior courses were either one on one with my professors or with Navy grad students. Back then course XIII students followed the course II curriculum in the sophomore year, and course I curriculum for the junior year. My most enjoyable extracurricular activity was playing in the concert band under John Corley. We played some very interesting and challenging original works. We even went on tour during semester break. The biggest contribution my MIT education made to my career was my exposure to computers in their infancy and the ability to solve problems - no matter what kind of problems.

Tell us about your professional life and experiences since you graduated from MIT:

Three days after graduation I started work as a naval architect with General Dynamics/Electric Boat Division. Working in R&D, I was able to do some very interesting work with computers and submarine design. Few engineers had much computer experience in the early 1960's, and especially few naval architects. In the late 60's I worked in highway design for the State of Delaware as well as a brief stint rescuing Delaware's business computer system at the request of the governor. In the 1970's I lived in New Jersey, did a pre-med, and applied to medical school only to find out I was "over the hill" and needed straight A's from MIT to get in. Needless to say I didn't make it! In 1979 I moved back to Connecticut with my son and daughter. I went to work for Analysis and Technology (a Navy sub-contractor) where I met my future husband. We worked together until he went to another company that did not allow husband-wife teams and I went back to work at Electric Boat. I got a Masters in Biomedical Engineering and worked on AI applications to submarine combat systems until retirement.

Tell us about yourself and family and interests over the past 50 years:

Three months after graduation I married Joe Wyatt. My son was born in 1965 and my daughter in 1967. We moved to Wilmington, Delaware in 1967 and then to Dover, Delaware two years later. In the 1970's we moved to New Jersey. This was a slow time for engineers so I did my pre-med, failed to get in to medical school, and ended up in grad school at Rutgers studying Microbiology. Eventually, Joe and I got divorced and I moved back to Connecticut with my son and daughter. Here I met Henno Allik, worked with him on finite element code development, and eventually married him! Henno and I had been married 21 years when he passed away in 2002. We enjoyed working together professionally, as well as designing and building our home, and traveling to Europe and Australia. Henno was born in Estonia and I was lucky to be with him on his first visit to his homeland since his family escaped in 1944. This first
visit was in 1991, right after Estonia declared independence from the USSR and the Soviet Union was dissolved. We visited Estonia every year after that. Since Henno's death, I have continued the tradition of visiting his relatives every year. It has been quite an education watching the changes in this little country over the last 20 years. I now have five incredible grandchildren and I keep very busy traveling, gardening and working on my house. I think my biggest contribution to the future is my family. I have been very lucky!

Jose R. Alonso

Course: VIII

Tell us about your recollections of your student years at MIT:

As a totally lost incoming Freshman, Freddy Fassett provided tremendous support and guidance during my first days. Wonderful man! The arduous academic rigors, with the Friday quizzes, were smoothed by the great group of classmates at East Campus, a large number of us all in Course VIII, helping each other with new concepts, difficult homework problems, quiz preparation... and letting off steam. All those water fights, water-balloon catapults, "mariahs" made from surgical tubing. I must mention Bob Gilmore, by far one of the sharpest of our classmates (always taking twice normal course load and still keeping close to a 5.0). Bob was always in the middle of the water fights, but also was the person we always went to for clear explanation of difficult concepts. Discovered squash, and a whole new group of friends. Those wonderful trips with Coach Ed Crocker, who knew all the best restaurants along the way to our matches. We had fun! Interestingly, I met George Meyer again on the squash court 45 years later, and recently he and I teamed up to reach the Finals in a doubles tournament in the 70+ age group. More fun! Ignoring stern advice to not do so, I continued at MIT for another 5 years to get a PhD in Physics. I don't regret the decision: experience in grad school was totally different, even the hallways looked different. And, a wonderful professional experience with the superb faculty that MIT is so blessed with. I have kept contact with many of them, particularly my thesis adviser Lee Grodzins (whom in fact I had dinner with last night!). I should mention too that in Lee's group I met Carol Travis, my wife of 43 years. In all, I am extremely grateful to MIT for a superb education, wonderful professional relationships, and for launching me into a fulfilling career.

Tell us about your professional life and experiences since you graduated from MIT:

Carol and I held post-doc positions at Yale for 4 years, working at the Heavy Ion Accelerator. Out of the blue we were offered positions at Lawrence Berkeley Lab, to work with Glenn Seaborg and Albert Ghiorso on transuranic element research. We were part of the team credited with discovery of Element 106, which after 10 years of "interesting" political intrigue involving a competing group at Dubna in the USSR we were allowed to name. We chose Seaborgium (Sg). In 1974 I transferred to the Accelerator Division of LBL, and Carol moved to Livermore where she spent her career in Defense Sciences. I worked at the Bevatron, which became the Bevalac when a transfer line was built joining the SuperHILAC with the Bevatron forming the world's first source of high-energy heavy ions; with beams across the periodic table at energies up to 1 GeV/amu. Getting the first relativistic uranium beam was a truly exciting moment! Managing first the biomedical program, then assuming responsibilities for management of the whole Bevalac program, I was part of the pioneering efforts with radiotherapy with ion beams. We treated over 2000 patients at the 184° and Bevalac, and helped launch the field of
"hadron-therapy" which is now beginning to blossom around the world, and is rapidly being recognized
as a superior radiation modality for treating cancer. The Bevalac also succeeded in launching the field of
relativistic heavy-ion physics, studying the equation of state of nuclear matter under extreme conditions.

Our work provided the justification for building of RHIC at Brookhaven and for the heavy-ion program at
CERN. In the mid 1990's I was appointed as the Technical Coordinator for the Spallation Neutron
Source, a $1B accelerator project at Oak Ridge involving a powerful accelerator chain producing 1
megawatt of protons at 1 GeV. As one of the three members of the senior management team, I
coordinated the collaborative effort between five national laboratories for design and construction of this
complex. I saw the project through its initial design stages, construction approval and first year of
construction. Returning to LBL in 2000, I worked briefly on IceCube, a neutrino detector at the South
Pole, and NLC (Next Linear Collider) project at SLAC. In 2002 I formally retired from the Laboratory.

That's when the fun really began. I spent the next four years, as a "rehired retiree" commuting to CERN
and working on the inner tracker detectors for ATLAS, one of the two huge experiments at the LHC (Large Hadron Collider). In 2008 I served a two year term as the Director of the newly-established
Sanford Underground Laboratory in Lead, South Dakota. The venerable Homestake gold mine was
closed in 2000, and eventually donated to the State of South Dakota for conversion into a deep-
underground physics laboratory. As an ideal site for studying neutrinos, dark matter, and other ephemeral
phenomena in an environment shielded from cosmic radiation by over 5000 feet of rock, plans were to
create the world's largest laboratory of this kind. My term focused on re-opening the mine, re-
establishing and repairing infrastructure to allow safe working in this old mine, preparing space for
science occupancy, and initiating science programs in the physics topics identified as well as geology and
microbiology. It was a fascinating endeavor! Today I continue active in the neutrino community,
working as part of an MIT group (!!) on designs of high-power cyclotrons (megawatt beams at close to 1
GeV energies) as compact neutrino sources. The technology being developed will provide a
breakthrough in price-performance for high-power beams, suitable for many applications, such as burning
nuclear waste, driving thorium reactors; as well as producing copious quantities of neutrinos.

Retirement? what's that?? As stated above, Carol and I met as grad students in Lee Grodzins' group
at MIT. Our two children, Laura (1971) and Chris (1974) are established professionally, but had zero
interest in following in the footsteps of their physicist parents. Laura attended Harvard, then Penn medical
school, and is now a research physician at the University of Pittsburgh. Chris attended Denver
University, rode the dot-com boom and has settled as the data-base manager for a prolific computer-
trading firm in Santa Fe. We are blessed with three grandchildren: Laura's two boys Tilden (5) and
Austin (3), and Chris' daughter Luna (6), and only regret that we are all so scattered that we get together
only at infrequent intervals. For 40 years we have lived in the same house in Orinda California, in a
wonderful wooded hillside setting. However, I also fell in love with the Black Hills of South Dakota, and
have just finished building a log house on an absolutely gorgeous spot with spectacular views of the hills
and out over the plains. A wonderful vacation home! Carol retired after 30 years at the Livermore Lab,
and took up a new career of training horses. With her two "boys" and one lovely "girl" she competes
actively in Dressage, and is busier now than when she was commuting to the Lab. I continue playing
squash, have just today entered the US National age-group tournament. My current ranking is 18th in US
in the 70+ age group. It keeps me fit, and I expect to continue as long as the knees hold out. I also
manage the squash program at one of the clubs in the East Bay, and have 75 players actively competing.
For ten years now I have been on the Board of the American Bach Soloists, a wonderful baroque
professional performing group that is, in my opinion one of the best in the country. For the past two years
I have had the rewarding experience of being invited to sing with their professional chorus in
performances of the B-Minor Mass. What a treat!

Tell us about yourself and family and interests over the past 50 years:

Three months after graduation I married Joe Wyatt. My son was born in 1965 and my daughter in 1967.
We moved to Wilmington, Delaware in 1967 and then to Dover, Delaware two years later. In the 1970's
we moved to New Jersey. This was a slow time for engineers so I did my pre-med, failed to get in to
medical school, and ended up in grad school at Rutgers studying Microbiology. Eventually, Joe and I got

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Jeremy E. Alperin

Course: XVIII

Tell us about your professional life and experiences since you graduated from MIT:


Tell us about yourself and family and interests over the past 50 years:

Wife Cynrthia ... Deceased .... Was in education ... high school principal  Daughter ... Courtney  BA Skidmore College in Saratoga Springs NY and MBA Babson in Wellesley, MA ... works for Ameriprise in Minneapolis  Son ... Greg .... BS and MS (accounting) Hendrix College Conway Ar ... CPA at Hein and Assoc in Dallas

Thomas Edward Ambler

Course: XV

Tell us about your recollections of your student years at MIT:

? The most memorable recollection: my final walk up tree-lined Memorial Drive following my very last exam in the Sloan School Building. As I passed the Great Dome, I received the crowning blow from the Institute. An official, winged emissary delivered the
final “dump” directly on my head. Yes, for me the Institute had won its four-year “dumping” campaign, the one that many other undergraduates also experienced. The unpleasantness of the mandatory crossings the Harvard Bridge with its bone-chilling wind and traffic-induced vibration that hovered perilously close to resonant frequency. (I blame my missing the beauty of this crossing on my youth.) The central force in my student life, my fraternity, ATO. It not only honored and fostered the serious academic purpose of being at MIT but also provided the friendships, leadership development opportunities, social life and the “greater purpose” commitment needed for wholeness. My experiences as 1960 Rush Week Chairman and Pledge Trainer were sources of great satisfaction at the time and successes that I have leveraged ever since. After all, being dubbed “Pompous Fart” by the largest pledge class ever is something to treasure, isn’t it? (By the way, one of those pledges became the perpetrator of the notable prank of transforming the Great Dome into the Charlie Brown Great Pumpkin.) Engaging in mischievous capers born of under-utilized creativity. Example: the delivery of many ill-gotten frogs to the sleeping dorm of neighboring Kappa Sigma. An ATO entry in the IFC Parade with a chicken wire and crepe paper float in the form of a locomotive, pulled by a convertible with a Dean Fred Fassett look-<a></a>-like and his harem in the back seat while blasting the song “we’re in the back seat kissin’ and a-huggin’ with Fred” The late evening, study-break runs to Jack and Marian’s for a piece of their decadent strawberry cheese pie. The 7” diameter iron cannon ball (“borrowed” from Harvard Yard by one of my class of ’62 fraternity brothers as an incoming freshman) became the object of many events of great creativity such as (a) the prime mover for an “ATO pledge machine with 62 moving parts that had to open a beer can upon the insertion of a quarter and (b) the heavy burden borne by a pledge as he facilitated the successive X and O moves of a tic-tac-toe game between 2 players, one in the basement and one on the roof of our 5-story fraternity house. Proposing marriage to my wife for the third time and finding that the ambience of being parked next to a Dempster Dumpster in the alley behind 37 Bay State Rd. made all the difference! Being victimized by the barbaric and unhealthy custom of being dragged across Storrow Drive and totally dunked in the Charles to celebrate getting pinned to Suzie, now my wife of 50 years. The least pleasurable part of the “celebration” was the violence of the reaction of my digestive tract to ingestion of Charles River sewage. Humiliation on the tennis court at the hands of Army and Dartmouth, and on the squash court by an old guy from the Wellesley Racquet club. Losing my overly treasured MIT class ring during a final exam (in the lecture hall where we all had 8.01) as a result of being a nice guy and taking it off because I thought it was making too much noise as I wrote.

Tell us about your professional life and experiences since you graduated from MIT:

My career began on 5/29/62 when I joined U. S. Steel as an Operations Research Analyst. (I chose to miss graduation in order to earn money to marry my current sweetheart, Suzie, from BU on 6/24/62). Since that time I have had my share of business successes and failures as well. In the past 30 years I have served in top management roles with titles that include CEO with small to mid-sized companies in diverse industries and cultures. As a 45-51 year-old I chose to become an entrepreneur of a startup manufacturer of a new, proprietary electronic product for the transportation industry. The good news is that it led to a licensing agreement with a Fortune 500 company who has enjoyed years of success with the product. The bad news is that it left the Ambler family paupers. This also turns out to be good -- if you’re interested, ask me why. For the past 16 years I have had a ball providing strategic planning consulting to 50+ for-profit and not-for-profit organizations and no longer have concern about whether there will be a next meal.

Tell us about yourself and family and interests over the past 50 years:

Today I am still having fun as a strategic planning consultant and continue to get a charge out of business. However, my primary passion for the past 40 years has been serving the Lord through ministry of various types. In 2012 this takes the form of Church Board, adult teaching, small group leading, mentoring and singing. In short, I get great pleasure in seeing others grow. Suzie and I have 3 wonderful married daughters, who have given us 3 very special sons, who are fathers of 4 granddaughters and 5 grandsons, ages 13-24, all outstanding in their own unique ways. The joy of family will continue with the first great-
grandchild expected in July 2012. Besides our family, Suzie and I share many interests together—love to be with people, produce music, play tennis, learn. We even enjoy frequent jousting with the New York Times Sunday Crossword Puzzles and comparing notes about our hip replacements! Finally, like most other MIT graduates, I look forward to a continuation of trying to make a positive difference in the years ahead.

James A Anderson

Course: VIII

Tell us about your recollections of your student years at MIT:

When people ask what the MIT undergraduate education was like around 1960 I always compare it to Marine Corps Boot Camp. It was life changing, highly effective, provided survivors with a certain amount of pride and bragging rights, but the process was painful. But, for better or worse, MIT undergraduate education worked. I learned about as much from my classmates -- a unique bunch -- as from the curriculum. I also went to the MIT Graduate School in Biology and got a Ph.D. MIT graduate school in neurophysiology was exciting, fun, intense, but not dehumanizing. A wonderful experience.

Tell us about your professional life and experiences since you graduated from MIT:

I went to MIT to become a psychohistorian. My inspiration was Hari Seldon, who flourished in the final years of the Galactic Empire. He mathematically predicted the Empire's downfall and took steps to ameliorate the disaster, as described in Isaac Asimov's Foundation Series. Unfortunately at that time MIT did not offer a psychohistory program. So I made do in Course VIII. I was an indifferent physicist at best. I decided understanding the brain was the next best thing to being a psychohistorian, so I went to graduate school at MIT in biology, in the neurophysiology group. At that time MIT was a wonderful place for brain theory, with McCulloch and Pitts, charismatic neuroscientist Jerry Lettvin, my thesis advisor Pat Wall, and the resources of the Communications Biophysics Laboratory. There was great interest in understanding how the brain worked at some large scale theoretical level. But my thesis was more mundane. Instead of predicting the fate of the Galactic Empire, I wrote a thesis on the organization of the cerebral ganglion of the sea slug, Aplysia. After getting my PhD I spent four years at the UCLA Brain Research Institute in my home town, Los Angeles. The period from 1967 to 1971 in California was exciting for many reasons, both for mind expanding science and for the anti-Vietnam war movement. In 1971 I moved back east, and spent two years at Rockefeller University as a post-doc, including one wonderful year in the mathematical psychology lab of Bill Estes. There I found that ideas from neuroscience and effects in cognitive science could sometimes be closely linked. Models for one area gave interesting, sometimes surprising predictions in the other. After Rockefeller, I was fortunate to obtain a job at Brown University, where I have been ever since. I have spent the rest of my career working on neural network based models for cognitive computation along with a few practical applications. Along the way I generated several books, lots of talks, and a number of papers. In my career, I have been part of many academic departments, from physics, to neurophysiology, to neuroanatomy, to applied mathematics, to neuroscience, to where I am now, the Department of Cognitive, Linguistic, and Psychological Sciences here at Brown. I always do the same stuff but the names of the places where I work seem to change. A wise colleague once called me a "prototypical interdisciplinary" which might or might not be a desirable thing. Recently, I have been working on what we call the Ersatz Brain project, an attempt to build a brain-like computer, a quite practical project. Our motto: "We want
to build a first-rate, second-rate brain." Our feeling is that with the coming end of Moore’s Law, computers must become more parallel. And brains do parallelism right. Therefore large scale parallelism will be needed to run properly the “cognitive” software that will be an important next step in computer evolution.

Tell us about yourself and family and interests over the past 50 years:

In 1969 I married Diana DeVincenzi. She was able to put up with an MIT graduate and understood me much better than I sometimes liked. We had 33 happily married years together until she died of non-Hodgkin's lymphoma in 2003. A few years later, I was immensely fortunate to meet Marida Hollos, Professor of Anthropology at Brown. We have been married since 2008 and hope to spend the next decades visiting exotic places in Europe, Asia and Africa. We currently live in a century old Victorian house on the East Side of Providence, Rhode Island. I have one son, Eric, born in 1970. He has a Ph.D. in cell biology from Oregon Health Sciences University and an MBA from the Yale School of Management. He is now a senior scientific administrator at a biotech company in New Jersey. My hobby interests involve a "geek triad": photography, high end stereo, and amateur radio (K1JA). I rotate among these depending on finances and circumstances. One conclusion I have reached is that things never turn out as you expected they would. But everyone already knows that ...

Lane Anderson

Course: XXI

Tell us about your recollections of your student years at MIT:

One of my most striking memories dates from my very first freshman term. Fifteen of us whose high school math programs had boosted us a bit ahead of our classmates were offered the option of replacing 18.01 with a course designed to stimulate our eager young minds while the others caught up with our level. The guarantee was that, whatever our grades in that course, we would rejoin the rest of the class for 18.02; and what a fortunate insurance policy that turned out to be! Twice a week a highly promising young mathematician droned on about his particular specialty, leaving us all totally perplexed; all but one, actually. During those three harrowing months I failed to grasp a single concept our mentor tried to convey to us. And I was by no means alone: class exam averages ranged between 3 and 8 points out of 100 despite the efforts of a lone ringer in our "elite" group whose grades invariably exceeded 95. That brilliant fellow always appeared in class with a sharp wooden pencil firmly nestled above each ear, sat in the front row and promptly absorbed every thought emerging from the mind of our abstruse specialist in game theory. To this day I still wonder what became of our gifted classmate. As for the droning young assistant professor, I need not provide you with his fabulous curriculum vitae for he happens to have been John Nash!

Tell us about your professional life and experiences since you graduated from MIT:

During my junior year at MIT a chance encounter with the cello sealed my fate forever. After a single year of playing I was awarded a full scholarship to the New England Conservatory where I studied under the Boston Symphony's brilliant principal cellist Samuel Mayes. Then, following a three year stint with the U.S. Army Strolling Strings including regular performances at the White House, I landed my first full time job with the National Symphony Orchestra. Throughout my eight years in Washington I was a frequent performer on the Smithsonian Institution's chamber music series. Changes in my personal life
led me to request a year’s leave of absence to study in Germany under world famous cellist Antonio Janigro. Plans for returning to Washington were soon forgotten when I successfully auditioned for principal cello with the Monte-Carlo Philharmonic. My career in Monaco lasted a fulfilling 31 years and gave me a wealth of opportunities to appear as featured soloist with the Orchestra, work with top conductors (Kondrashin, Solti, Mehta), participate in prestigious festivals throughout Europe and the United States, tour and record == in brief, to lead the stimulating life of a performing musician.

Tell us about yourself and family and interests over the past 50 years:

My family story began with my encounter with Renee Charnaix, a gifted violinist who completed her studies at the Paris Conservatory, immediately became assistant concertmaster of the Nice (France) Radio Orchestra, and later joined the Monte-Carlo Philharmonic. Shared professional interests helped pave the way to our marriage in 1978. We are the parents of two fine sons: David, a public speaking consultant with firms in and around Helsinki where he lives with his Finnish wife Ria, a business recruiting agent, and their two year old daughter Sofia; and Noel, a professional violinist active with the Royal Liverpool Philharmonic while residing in London with Elizabeth Jordan, a lawyer with a prominent law firm there. For several sound reasons my wife and I chose to make a clean break with our instruments upon retiring, thus freeing up all those hours of practicing for the chance to meet new challenges. Renee is an avid reader and currently the president of a philosophical association in nearby Nice, whereas I divide my time between writing and translating (French, German and Italian), the study of Russian (begun at MIT), and taking piano lessons. I am also active in volunteer work with Fight Aids Monaco, an organization devoted to prevention as well as to the moral and financial support of people living with the HIV virus.

Peter G. Anderson

Course: XVIII

Tell us about your recollections of your student years at MIT:

MIT years were a wonderful time of my life. The Math I learned was beautiful, my living group -- SAE -- was full of great friends for all my life, Tech Show, Concert Band, etc., all memorable.

Tell us about your professional life and experiences since you graduated from MIT:

I taught Math for one year at Princeton, then went to RCA’s computer division to work on the Fortran compiler -- anybody need a BAL programmer? Maybe I graduated too young. RCA’s computers went belly up, and I went to teach Computer Science at NJIT, then Seton Hall, the RIT in Rochester NY. I stayed at RIT 25 years, then went off the payroll in 2005. RIT was a great place for me: they mostly cared about teaching, and I mostly worked with the graduate students. When I wanted to think and publish some research (neural networks, genetic algorithms, image processing, Fibonacci numbers) I received nice atta-boys. Plus they sent Jane and me to China (Shanghai and Hangzhou) for 6 months in 1986 -- wow.
Tell us about yourself and family and interests over the past 50 years:

Jane and I met at a mixer in 1959 and have been together ever since. We have a son Scott (in NH with two boys) and a daughter Julie (in AK with a girl and two boys). All nine of us are healthy and happy. I have been active in IEEE and the Fibonacci Association. I golf (not well) and have been taking trumpet lessons (improving).

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Richard Bryan Anderson

Course: VIII

Tell us about your recollections of your student years at MIT:

Three memorable years in the lair of Jack Florey (Walcott, fifth floor), serving on the House Committee as Hall Chairman and DormCon Representative as a sophomore and junior. Played clarinet in the MIT Concert Band and enjoyed a brief flirtation with "WTBS, 640 on your dial in Cambridge, the Radio Voice of MIT." Balanced Course VIII studies with hacks, music, poetry, and church participation. Got to know a lot of great guys. Called in 1961 as a missionary for my church; served in France until 1964. Returned to California, married Valerie, and came back with her for my senior year. We lived in a basement rear apartment on Beacon Street, and I commuted across the Longfellow Bridge by bicycle. Graduated in 1965. Wrote all this and much more, with photos, in my personal history (still in process, as of 2012), which, if you care to, you may consult under the link, "Such A Life," at http://commensa.net

Tell us about your professional life and experiences since you graduated from MIT:

Decided I wanted to be a physics teacher and accordingly took an M.A. in Science Education at Stanford in 1966. Became associated with the amazing people who were then creating the Harvard Project Physics and moved to the Harvard Graduate School of Education, where I received a rather eclectic Ed.D. in Research Methods and Science Curriculum at Harvard in 1971. Met Jay Forrester of MIT in these days and endeavored to apply his ideas in a national educational context. My thesis, worked out in Ireland, achieved some local notoriety at Harvard but has had no perceptible long-term consequences. Joined, before graduation, the staff of Abt Associates Inc., in Cambridge, and worked there in policy research and, eventually, microcomputer applications. Left Abt in 1983 to pursue some notions in the area of business decision support software under the sponsorship of Hayden Software, Inc. Hayden and my ideas both went belly-up in 1984, and I worked as a program manager for M/A-COM Government Systems in Lexington until 1987, when that office closed down. I then signed on to work in a new research outfit called Phase V Technologies, Inc., in Wellesley Hills, investigating the quality-of-life implications of various medical interventions, becoming in turn that firm's Director of Research and Vice President. Spun off in 1995 as CoMMensa, Inc., headquartered in our home in Arlington, Massachusetts, engaged in similar research until the end of 2002, when I retired and the company went out of business. Served for many years on the MIT Alumni Council and the MIT Educational Council.

Tell us about yourself and family and interests over the past 50 years:

After marrying Valerie (not quite the girl next door, but the best choice I've ever made), we decamped for an exquisite school year in Boston and Cambridge, followed by a whirlwind twelvemonth at Stanford, where our firstborn arrived. Then back to the Boston area, where we lived in Belmont until 1970,
interrupted by a brief (six-month) second mission to France, when my mother died in an accident there. When we bought a house in Burlington in 1970, three small boys came with us. In 1973, we moved to "Timbaloo," the house in Arlington where the first cannon-shot of the Revolution fell, and we lived there for thirty years, through the birth of three daughters and another son. Wonderfully-varied church work and the raising of seven children has pretty well accounted for our intervening years. Currently absorbed full-time in various aspects of family history (as we learned only after some years, all my immigrant maternal ancestors came to New England before 1680; 166 of them settled within bicycle distance of Arlington).

Robert E. Anderson

Course: VI-A

Tell us about your recollections of your student years at MIT:

I remember feeling woefully unprepared for MIT, getting very little sleep, and always trying to catch up. I worked a lot of hours in the dining service freshman year, and then in the Office of Publications mailroom (under the steps of 77 Mass. Ave.!) for several years, eventually managing it. It was very boring, but you can stuff envelopes while half-asleep! The Course VI-A co-op terms were easier, even with night courses, and I fondly recall many Tuesday night trips to Club 47 near Harvard Square to hear Joan Baez before she became famous. I have good memories of life in Sig Ep, which helped balance the school pressures and long job hours. As a result of the above schedules, I had no time for extra-curricular activities, so I knew very few classmates from other living groups. I do recall adult relatives and friends telling me that "college will be the best years of your life", to which my unspoken answer was "sure hope it gets better than this!" And it did! (see next sections):

Tell us about your professional life and experiences since you graduated from MIT:

My Course VI-A co-op experience was at General Radio Co., a pioneering Test & Measurement company founded in 1915. I joined them full time after graduation and became a Sales Engineer (more "applications engineering" than sales in those days). After five years in the field in Chicago and Indianapolis, I returned to headquarters in Concord, MA in a Market Research role. The next year I started product marketing for the first commercial computer-controlled (PDP-8/e) logic circuit board test system, and later spent two years in Zurich, Switzerland setting up the European systems sales and marketing organization. This business ultimately became the whole company, which changed its name to GenRad, Inc. before going public in 1978. I had left in 1973, moving from Zurich to Phoenix, to join a startup as VP Marketing, and two years later was co-founder of another startup that developed field service test equipment. It was acquired by GenRad in 1980, so I was back where I started. I became VP Corporate Marketing in '83, Senior VP in '85, and CEO in '88. I became Chairman in 1992 and retired in '93. Throughout the '90's and 2000's, I served on Boards of Directors, Boards of Advisors, and also advised individual entrepreneur CEOs. I still serve on four Boards of Directors (one public, one VC-backed, and two private companies) and plan to continue that work as long as possible. For 13 years I also served on the Board of Indian Hill Music, which is a professional orchestra, large music school (1500 students), and community outreach not-for-profit organization.

Tell us about yourself and family and interests over the past 50 years:

Judy and I met at GR and married in 1964. We have a daughter 44 and a son 42. Our daughter has an 11-year old son, our only grandchild (so far). We have lived in Chicago, Indianapolis, Groton (MA), Zurich, Phoenix (15 years), Concord (MA), and for the past twenty years back in Groton on a quiet pond. We say
that was our "last move", but can begin to foresee a day when hours of snow-blowing, landscaping
projects, and garden maintenance will become less fun.  We are avid golfers and enjoy music, both as
spectators (frequent symphony, chamber music, and jazz performances) and as participants. Judy sings in
a Barbershop Quintet and often plays piano in church and in a piano/flute duo, and I study jazz piano and
play once/week in an amateur combo with an instructor.  Judy retired as a paralegal last year and
volunteers two days/week in the school library.  I either "retired" 20 years ago, or I will "never retire",
because I enjoy advising entrepreneurs and serving on Boards.

Carl Andrysiak

Course: XXII

Tell us about your recollections of your student years at MIT:

I was not prepared for the rigors of the academics at MIT, and the
first year was extremely difficult.  I came up to speed in my second
year, especially in my Course II subjects.  Finally hit my stride and
did well after that.  Invited into the Advanced Program the third
year and received the SB and SM in 1963.  My original career
interest was architecture, but I was uncertain about the required
five year program.  Nevertheless, ME was a natural fit, and I have enjoyed it as a career and architecture
as an avocation ever since.  Exploring Boston and Cambridge, especially the MFA and the Gardner was a
regular treat.  Weekend meals at Durgin Park, Norwegian Smorgasbord, Elsie’s and Asian restaurants in
Central Square became routine.  Late night jaunts to “The Red Death” and the Sandwich Man coming
through the dorms provided the extra boost to keep going late into the night.

Tell us about your professional life and experiences since you graduated from MIT:

My career consisted of forty-three years in various R&D, engineering, project, and management positions
in several process industries.  Made significant contributions to fiber optics, catalytic converters, and
paper drying.  Work provided the opportunity for interesting travel in the US and abroad, but at times the
travel became burdensome. (When the clerk at the AVIS counter knows you by first name, you’ve been
there too many times!)

Tell us about yourself and family and interests over the past 50 years:

I married my wife, Sherry, shortly after graduation, and we were together until right after I retired and she
died in 2007.  We raised three children, Chris (MIT ‘87), Keli (Wellesley ‘88) and Tanya (Wellesley ‘91).
After the children graduated we traveled frequently, with the focus usually being significant art museums
and notable architecture.  I designed, and we built three homes, (my avocation). Most of our years were
spent in upstate New York and central Massachusetts.  After retirement we moved to New Hampshire.
I now have a new life partner, Betty, and we split the year between New Hampshire and Florida.  Betty is
an artist, just as was my wife, Sherry.  My interests continue to be art and architecture.  I return from
Florida to New Hampshire to ski a few weeks each winter, and my golf game is improving now that I
have more free time and can play ten months a year.
Lloyd Armstrong, Jr.

Course: VIII

Tell us about your recollections of your student years at MIT:
Lots of hard work!

Tell us about your professional life and experiences since you graduated from MIT:
After graduation from MIT with an SB in physics, I went to UC Berkeley, where I got a Ph.D. in physics in 1966. I stayed there two additional years as a postdoc at the Lawrence Berkeley Lab. I went from there to the Westinghouse Research Lab in Pittsburgh as a senior physicist, and stayed for two years. I then moved to Johns Hopkins University, where I stayed for 22 years, working my way up from assistant to full professor of physics. I served as chair of the department of physics and astronomy from 1984-1987, and as dean of the School of Arts and Sciences from 1987-1993. In 1993, I moved to the University of Southern California in 1993 as provost and senior vice president for academic affairs, and professor of physics. I stepped down from the provost's position in 2005. Since then, I have been a faculty member in the higher education program of the school of education, with research focusing on funding models for higher education and effects of globalization on higher education. I have a blog discussing my findings at ChangingHigherEducation.com. During the "physicist" portion of my career, I served on the NSF Advisory Committee for Physics (1985-88), and as a member of the Committee of Visitors of the Physics Division of the NSF (1991). I also has served on a large number of boards and committees of the National Academy of Sciences/National Research Council, including the Committee on Recommendations for the U.S. Army Basic Scientific Research (1984-87), the Committee on Atomic and Molecular Sciences (1984-89, Chair 1985-88), and the Board on Physics and Astronomy (1989-96, executive committee 1993-96). I was a member of the Advisory Board of the Institute for Theoretical Physics in Santa Barbara (1992-96, chair 1994-95), of the Institute for Theoretical Atomic, Molecular and Optical Physics at Harvard (1994-97), and the Advisory Board of the Rochester Theory Center for Optical Science and Engineering (1996-98, chair 1997-98). In the "post-physicist" phase of my career, I served on the boards of directors of the California Council of Science and Technology (1994-2005), the Southern California Economic Partnership (1994-2000), the Pacific Council on International Policy (1996-2005), and the Pacific Century Institute (2009- ). I am a member of the Pacific Council on International Policy and the Council on Foreign Relations. On the corporate side, I serve on the advisory boards of InsideTrack and Altius Education.

Tell us about yourself and family and interests over the past 50 years:
I met my future wife, Judith Glantz, when we were both graduate students at UC Berkeley. She was a student in the psychology department, and got her Ph.D. there in 1969. We were married in 1965 as I was finishing my thesis. We have one son, Wade, who was born in 1975. He is now married and living in Los Angeles. While at Berkeley, I met a French visiting student working in my field. He and I became life-long friends, and because he rose very rapidly in the French hierarchy, he was able to facilitate my working in France on a regular summer basis- plus one sabbatical- at the Laboratoire Aime Cotton in Orsay. Our extended times there opened our eyes to a different world, and we made many good friends and developed a love for France. He and I were physics collaborators until 1986, when he moved into full time administration as Director General of the CNRS. I then found support from friends at the Ecole Normale Superieure and was able to continue my summer work for a few more years until my own administrative work put an end to that. Since then, Judy and I have spent 1-2 months roughly every other year in France in a tourist mode. Our "other year" vacations have generally been spent in Colorado, hiking in the mountains. Until recently, we had a vacation home in the mountains near Los Angeles that let us continue that passion on a more regular basis. However, we sold that home so as to have fewer
encumbrances standing in the way of increased travel to see some of the places we have missed along the way.

Stephen J. Banks

Course: VIII

Tell us about your recollections of your student years at MIT:

Having grown-up in Seattle, Boston was a new experience both in culture and weather. I remember the freshman briefing where we were told to look to left and right and one of us would be missing at graduation. MIT was a fun and often grueling experience with a lot of math and physics courses. Fortunately, I also got exposed to the basic business courses that would help get me into HBS three years after MIT. Otherwise my pleasant memories would include the activities that I participated in such as the track and cross-country teams. And, I have great memories and friends from the Lambda Chi Fraternity.

Tell us about your professional life and experiences since you graduated from MIT:

When the four years ended at graduation, I was a 2nd Lt. US Army and headed to Germany after a training stop at Ft. Bliss. It was a great three years including marrying Carol who was a school teacher for DOD. We enjoyed our European travels and have certainly appreciated returning to various European destinations since. So, upon exiting the Army, it was off to Harvard B School for two years of intense work and then we settled in Pittsburgh where we spent twenty years and saw our three sons raised and off to college. I was fortunate to join The Hillman Co in Pittsburgh after two years with Westinghouse and had fascinating 18 years developing a major portfolio of venture capital partnerships and investments. In early 1988, that chapter came to a close and we moved to Houston where I headed an activity affiliated with the Baylor Medical College. At BCM Technologies, we focused on all aspects of developing over twenty life science companies during the 15 years ending in 2003.

Tell us about yourself and family and interests over the past 50 years:

At the end of 2003, I retired from that activity and have been a Venture Partner with an Austin based fund, S3 Ventures since 2007. During my years in Houston, I have been active with the MIT Enterprise Forum of Texas and other entrepreneurial support groups like the Houston Tech Center, Rice Alliance and the Houston Angel Network. Carol and I like to travel both to see our three grandchildren in Darien and Tampa and relatives in Seattle, Kansas and Miami. We enjoy duplicate bridge, many of Houston's cultural activities and we have taken many cruises. We have found cruising a great way to travel and to see cities in Europe, the Americas and Asia.
Douglas Lee Barritt

Course: XVI

Tell us about your recollections of your student years at MIT:

I joined Alpha Tau Omega fraternity as a freshman in 1958. ATO was a great choice of living group for me, as my pledge class and other fraternity brothers became my "family" and life-long friends (six of us even had a mini-reunion in 2011 after having not seen each other for nearly 50 years!). I was a Course XVI major (Aeronautics and Astronautics), getting in on the early stages of the space program. I specialized in orbital flight mechanics and launch vehicle performance, having always been attracted to "vehicle" aspects of engineering. While at MIT, I was a member and president of the MIT Aeronautical Engineering Society (MIT Glider Club), and joined the Aero Tech Flying Club founded by my fraternity brother Chuck Livingston. When I wasn't studying, I was at the airport (or was it the other way around??) The ATO house was located in Boston's Back Bay area, at 37 Bay State Rd. Memorable events at the house include "snow jumping" from the 3rd, 4th and 5th floor windows into an 8-foot pile of snow (no, not me, I was the official photographer!). Other great memories were building the "Pledge Machine" which had to have "62 moving parts" and would open and pour a can of "pop" after you inserted a quarter. This was successfully demonstrated three times in succession in front of brothers and dates at a house party. My years at MIT were hard work, but I think the payoff was great for the time and effort invested. I really tried to make my parents proud of their investment in my future, and I will forever be thankful to them.

Tell us about your professional life and experiences since you graduated from MIT:

I started my aerospace career with The Boeing Co. in Seattle, WA in June, 1962. I worked in the Aerospace Division, initially on the Dyna Soar Program, which was unfortunately cancelled in Dec. 1963. I then did orbital flight mechanics work on the very successful Lunar Orbiter Program, the vehicle that mapped the moon for the Apollo lunar landings; Lunar Orbiter went "5 for 5", and made the team very proud. Also during this time frame, I completed my Master of Science degree in Aeronautics and Astronautics at the Univ. of Washington (1965). Beginning in 1968, I began working on classified space programs for the Dept. of Defense, continuing in vehicle performance and orbital flight mechanics, including mission simulation and performance analysis. In 1981, I was selected to chair the Mission Design and Flight Operations Working Group on a Boeing Launch System Integration contract which I continued with through most of my career. The government payload was initially integrated on the Space Shuttle with an IUS upper stage, and then a Centaur upper stage. However, after the Challenger disaster, the payload was reassigned as a Titan IV/Centaur mission, which stretched the program out for several years. My Flight Ops Working Group was responsible for mission design, launch vehicle performance, flight software design and verification, guidance accuracy, and launch operations. We sat on console at Cape Canaveral during launch, and assisted the customer in payload acquisition. In the end, we had three successful missions and no failures. It was a very satisfying way to conclude my career. I retired from Boeing in 1999 after a 37 year career. One company, but many interesting jobs!

Tell us about yourself and family and interests over the past 50 years:

I got married about two years after I started working for Boeing in Seattle. We had one son, Darrin Lee Barritt, who is now a Lt. Col. in the USAF flying F-15 fighters, and instructing fighter tactics in T-38s. He just returned from 6 months in Iraq leading an Air Force team shutting down two US air bases near Baghdad, and transfer of control to the Iraqis. Darrin is also a United Airlines First Officer flying 737s and A-320s, though he is currently on military leave from United for two more years. While working for
Boeing in Seattle, I pursued my interests in competitive soaring, and owned four different sailplanes over a 31 year period. I was Standard Class Regional Champion twice, and have held as many as 7 state records for soaring (only two are still standing). In 1989, I married my current spouse, Megan. Meg has a daughter by a previous marriage, who is married and has given us our only grandchild, Ian, now age 10. A year or two after marrying Meg (who comes from a general aviation family), we sold the sailplane and bought the first of four airplanes we have owned. Our current aircraft is a 1964 Beechcraft S35 Bonanza which we've owned since 2001. We enjoy flying around the country in the Beech, having attended Beech conventions in Reno, Wichita and Salt Lake City. In 2004, we participated in the Historic America Air Safari around the whole USA, flying over 6000 miles including historic places on the east coast. Meg and I are both avid BMW motorcyclists, riding our sport-touring machines 15-26,000 miles per year. She has 250,000 miles on BMWs, and I have 350,000, and we're not done yet!

Robert Barthelemy

Tell us about your recollections of your student years at MIT:
Lots of hard work throughout the four years. Met some great folks, particularly during my freshman year, and had some great times in and around Boston. Overall,

Tell us about your professional life and experiences since you graduated from MIT:
After graduating, becoming an Air Force Lieutenant, and getting married in June of 1962, I stayed on to get an MS in nuclear engineering and then became a military research officer in the US Air Force. My five years as a military officer were during Vietnam and the R&D work was both applied as well as exploratory. I loved the technology work and decided to stay on with the Air Force Research Laboratory after my military obligation was satisfied. I really stayed on, for another 30 years, and was involved in some really exciting projects, including space exploration, hypersonic airplanes, star war weaponry and the origination of virtual training and collaborative R&D. I was fortunate to become a senior government executive at 40, so the projects and the leadership opportunities were terrific. When I "retired" in 1995, I began a consulting career in the aerospace community, which soon led to creating the Wright Brothers Insitute and serving as its director for eight years. Still working, I'm leading a group of brilliant innovators in the Wright Brothers Institute's IDEA lab and trying to infuse collaborative innovation into leading-edge aerospace and commercial R&D. My passion has always been innovation and collaboration, particularly around high tech activities, and I even wrote a book about it called "The Sky Is Not The Limit".

Tell us about yourself and family and interests over the past 50 years:
This June, Marge and I will also be celebrating our fifty year wedding anniversary. We left Boston in 1963 after the MS program and landed in Dayton, Ohio, the home of the Air Force Research Laboratory. And we never left. Three daughters and seven grandchildren later, we're still there, mostly talking like midwesterners, but with a slight New England accent. Ohio was good to us and, while we've travelled throughout the world and spend lots of time in Florida during the winter, we think of ourselves as Ohioans with ancient ties to the Portuguese and French communities in New Bedford and Fairhaven,
Massachusetts. Our three daughters have done very well, two with PhDs and the other a senior manager at Lexis/Nexis. They all married Ohio boys and all three live within three miles of us. We actually designed and built a multi-generational home in Beavercreek, Ohio where we live with our youngest daughter, her husband and their three children. It's our base of operations, with a lake house near Cincinnati and numerous trips to Florida each year. My best friends right now are our grandchildren who I am learning from every day. Looking back, with all that MIT education, including a PhD at OSU in 1975, I now realize that I know so little. So, although still working, I'm spending most of my time learning and hanging with family, friends and colleagues who are wonderful new sources of knowledge.

Roger Leighton Beck

Course: XV

Tell us about your recollections of your student years at MIT:

Coming from a small midwestern high school, I found the academic work at MIT challenging. But meeting these challenges was rewarding and facilitated my growth. My fraternity (Sigma Phi Epsilon) was the most significant non-academic part of my MIT experience, and it was great! We had an extremely fine group, and we were responsible collectively for almost all the key aspects of the fraternity's operation. Carrying out these responsibilities also provided many opportunities for personal growth. I continue to treasure the relationships I developed there. I was in Industrial Management from the beginning of my freshman year. This provided an excellent grounding in the fundamentals of business, which had a major impact throughout the course of my professional life. Two members of the administration I held in high regard were Eugene Chamberlain (my freshman year adviser; he was perceptive, practical, and kind), and Dean Freddie Fasset--a very widely appreciated friend of many students. A faculty member I recall with gratitude is Zenon F. Zannetos, who taught accounting. There is one noble student achievement which seems to have fallen from view in the years since we graduated. I remember The Tech reporting the development of a new unit of measurement for force--the mousephart. It seemed highly promising at the time, but I have heard nothing of it since.

Tell us about your professional life and experiences since you graduated from MIT:

If I had tried to guess in 1962 what path my life would take, I would have been wildly mistaken! In the fall of 1962, I entered the MBA program at Northwestern University. Northwestern was attractive because they valued the Industrial Management coursework I had completed, reducing the length of the MBA program from 2 years to 1. Graduating in 1963 with a major in accounting, I went to work for one of the large public accounting firms, and began to study for the CPA examination. I became a CPA a year later, and then felt highly vulnerable to the draft, having been deferred for a total of six years. Seeing that there were no rental families offered in the market, my best choice seemed to be to "volunteer" for the reserves. Relatively attractive reserve opportunities were oversubscribed with long waiting lists. But--surprise--the Marine Corps Air Wing had plenty of openings! Up to this point in my life, I always avoided physical activity in favor of intellectual pursuits. Consequently, on the range of physical prowess, I probably would have plotted at about the 10th percentile. So the Marine Corps had to take me all the way from zero to combat fit. It was excruciatingly painful, but now I realize I badly needed physical development, and my life has no doubt been far healthier as a result of all that pain. I was on active duty for 8 months, followed by 5 years and 4 months of reserve duty. Going back to the public accounting firm after active duty, I transferred from Chicago to Kansas City. Later, I transferred
from the audit division to the management consulting division in search of more useful work. Finding myself too interested in studying problems in depth, and not sufficiently skilled in providing clients with quick solutions, I changed direction. In 1968, I entered the Ph.D. program in economics at the University of Chicago. This was a surprising twist, since I had detested the economics courses I took at MIT and Northwestern. But after graduation, I came to realize how important economics is. My new goal was to teach students how to make economically sound decisions, which I hoped would also allow them to be better decision makers as citizens. I loved studying again, and the courses and faculty were riveting. Six of the professors I encountered at the University of Chicago subsequently won Nobel prizes in economics. In 1971, I became an assistant professor in the Business School at Central Washington University in Ellensburg, Washington. I was still working on my dissertation. In 1972, I became an assistant professor in the Faculty of Business at the University of Alberta in Edmonton, Alberta, Canada. Another very surprising change! A fellow Ph.D. student and good friend at Chicago, commenting on what universities I should consider, had said, "And there’s the University of Alberta, but you don’t want to go there—it’s cold!" He was right about the cold, but we found it tolerable. By the end of 1972, I completed my dissertation and received my Ph.D. from the University of Chicago. I remained at the University of Alberta for 25 years, and thoroughly enjoyed it. I especially loved working with students. The thread common to most of my research was rent seeking--economically unproductive competition for supra-normal profits. I became professor emeritus, and retired from the university in 1997. I did some part time teaching for a few years after that, but no longer do so.

Tell us about yourself and family and interests over the past 50 years:

I married Doreen Voigt (no “h” in that name, mind you!) in 1967. Doreen and I first met when we were children. Our fathers worked for the same company. Doreen’s brother is a 1959 MIT graduate. Doreen and I jest that economics brought us together, because we found ourselves in the same apartment complex in North Kansas City—the best value for the dollar in the whole area. It was probably a bit more cosmic than that, though—we were even in the same building. Doreen supported me by working as a computer programmer and systems analyst throughout my time in the Ph.D. program at Chicago. Her degree was in math education from the University of Kansas, and she later obtained a second degree in music at the University of Alberta. She is a life-long and accomplished flutist, a piano teacher, and recently a harpist. Our first son was born in 1974, and our second son in 1984. The elder is a lawyer, and the younger a construction worker in cement and a mobile crane operator. Both live in Calgary, Alberta. We moved to the mountains of British Columbia (5 1/2 hours west of Edmonton) in 1989, while I was still working full time at the University of Alberta. I have been captivated by mountains since I first saw the Rockies as a teenager. Now, we are perched on the base of one of the Canadian Rocky Mountains at the western edge of the range. Two other mountain ranges (the Monashes and the Cariboos) also border our valley. Since we have been here, Doreen has become a librarian. I have become a small-scale organic farmer. We raise most of our own vegetables, and like to also supply friends and neighbors when I can find enough help to expand output. One of my hobbies is wine making, using grapes imported from California. The other major focus of my life is my spiritual practice—Sukyo Mahikari (www.sukyomahikari.org). The impact on my life has been huge. I am deeply grateful that 25 years ago the universal life force picked me up and turned me around 180 degrees. As a result, I released my grip on atheism—a view I had held since reading Atlas Shrugged as a senior at MIT. It’s gratifying to be part of a spiritual practice that crosses barriers between religions, races, and cultures, allowing all humans to work together toward a better world. It’s reinforcing to experience a daily practice that constantly brings beneficial changes. Looking back, it’s been a great life so far and there is hope for more to come. Recently, one of our friends invited us to help him celebrate his “first” 80 years!
Barry Belkin

Course: XVIII

Tell us about your recollections of your student years at MIT:

It wasn't until late in my sophomore year that I really settled in as a student at MIT. Switching majors from physics to math and joining Phi Beta Epsilon (after spending my freshman year in Burton House) were key factors. I can't say that I miss the daunting cycle of weekly calculus, physics and chemistry exams during my freshman year. I do miss the Friday night excursions to the House of Roy (particularly, the shrimp with lobster sauce and sesame candy).

Tell us about your professional life and experiences since you graduated from MIT:

After graduating from MIT, I studied combinatorics at the University of Pennsylvania. I then went on to get a PhD in probability theory at Cornell University in 1967. I have spent my entire professional career working for Daniel H. Wagner Associates, a small firm (currently headquartered in Exton, PA) that consults in operations research mathematics. I served as company president from 1986 to 2010. I have had the opportunity over a 45 year career to work on a wide range of mathematical applications ranging from the microscopic scale (measuring human sperm motility in conjunction with a fertility study) to the cosmic scale (tracking deep space satellites). A particularly interesting problem I worked on related to planning the search for the gold lost when the ship transporting it sunk in a hurricane.

Tell us about yourself and family and interests over the past 50 years:

My wife Barbara and I met as counselors at a summer camp. We were married in 1964 and currently live in West Chester, PA. We lost our older son David to cystic fibrosis when he was 30. Our younger son Richard and his wife Liza live in Santa Barbara, CA. Both are physicians. They have two children, Danya (age 10) and Ryan (age 8). Barbara and I enjoy traveling. We are up to about 50 on the list in "1,000 Places to See Before you Die." Our most recent trips were to Belgium, the Okavango Delta region in Botswana and Argentina. Photography is one of my hobbies. When we travel, I take the photos and Barbara takes the notes that are the basis for the photo album captions. I played bridge while at MIT and have started to get back into it. Friends of ours are mildly serious birdwatchers and have gotten us interested.

Alfred H. Bellows

Course: II

Tell us about your recollections of your student years at MIT:

My memories of student life center around being buried in study, cramming for exams, walking across that cold bridge about four times a day, and leaning on my Sigma Chi brothers to keep my sanity. In the later years as I focused more on elective engineering courses, I finally enjoyed some of the courses and began to live in the labs doing fun stuff.
Tell us about your professional life and experiences since you graduated from MIT:

I am probably one of the few graduates from our class to have practiced their course of study for most of their career. After graduation, I stayed around for a MS in mechanical engineering. Then some travel. Then the career. Much of my engineering work expanded into the fields of optics, electronics, microcomputers, and project management. But it was always mechanical design that tied it together. At Polaroid I designed the SX-70 camera and other experimental cameras and components. At Electronics Corporation of America, I was Chief Mechanical Engineer then Manager of Manufacture and introduced many innovations and four products that I designed and managed into initial production runs. At Foster-Miller Associates I was Program Manager for several of their consulting projects. I spent 19 years at GTE Laboratories (now Verizon) where I designed electrical switching equipment, a surge arrester for Minuteman Missile control bunkers, designed and managed two self-contained payloads that orbited and functioned successfully on three Space Shuttle missions, and designed or managed several telephone equipment projects including an early demonstration of fiber-to-the-home. After early retirement, I returned to work at Osram Sylvania for seven years solving problems in the lighting, specialty materials, and LED fields. My gadgets have gone into space, the bottom of the sea, coal mines, power boilers, the telephone/video system, and the hands of millions of photographers. Frankly, I enjoy inventing, making things, helping people, and solving problems: mechanical, optical, electronic, structural, and social. I have 33 patents.

Tell us about yourself and family and interests over the past 50 years:

Outside of those day jobs, I was active in the MIT Choral Society; revived the Polaroid photography club; studied photography under Ansel Adams; owned and managed 16 apartment units; learned to ski at 47; remodeled and built additions for several apartments and houses; and consulted over many years for various organizations including ID camera design, microcomputer programming, and eleven years as expert witness for Fuji Photo Film Co. I volunteered for the Town of Wayland, Mass. serving as chairman of the Town's Road Construction Committee and Finance Committee; and served as president of a sports club and a condo association. My wife Sandra and I have a total of four children and three grandchildren. We moved to Cape Cod three years ago but migrate to Naples for the cold months.

**Erich K. Bender**

**Course: II**

Tell us about your recollections of your student years at MIT:

I think of my undergraduate days at MIT as the most transformative time of my life. Academically, I learned to study deeply enough to really learn course material, rather than just enough to do well on a test at the high-school level. The most important personal event was meeting Connie Kenyon in my junior year. We were married in August of 1962 and remain happily married to this day.

Tell us about your professional life and experiences since you graduated from MIT:

Since graduating from MIT, I stayed for a while to get my PhD and then took a job at the consulting, research and development firm of Bolt Beranek and Newman located in Cambridge, MA. At BBN we
were responsible for obtaining our own contracts which I thoroughly enjoyed because it satisfied my desire for quasi-independence and got my entrepreneurial juices flowing. Most of my 37 years at BBN were spent in management and technical roles in acoustics but I also managed the Speech and Language Processing group and was responsible for the company's intellectual property.

Tell us about yourself and family and interests over the past 50 years:

Connie and I raised two sons in Wellesley and now live in retirement in Chatham on Cape Cod. Both sons are married and have a total of three children, all of whom we enjoy seeing as often as possible. Throughout our lives we pursued interests in sailing and travel. Since retirement, I have also taken up golf and bridge. My volunteer interests include the MIT Club of Cape Cod (current president) where I am working hard to support K-12 education, and the Eastward Ho Country Club where I am working equally hard on conceiving and implementing energy-conservation measures.

Elwyn Berlekamp

Course: VI-A

Tell us about your recollections of your student years at MIT:

As an undergraduate. I lived in East campus, where I met some classmates who became very good friends. For 3 years I lived in Walcott 104, but then I moved to Atkinson in Senior House. It was then the "Russian dorm", where we all tried to speak only Russian. Most of the other students there were considerably better at Russian than I, but I persevered. As a freshman I played chess well enough to be put onto board 5 in a 5-board match against Harvard when one of the regular team members became ill. The top four boards split. My opponent offered me a draw, but I refused, and went on to lose the game and the match. This debacle strained my fledgling relationship with the upperclassmen in the chess club. I took up bridge instead. My favorite partners were Jim Ross '62 and Harry Elliott '61. I played bridge almost every Saturday afternoon at the MIT Bridge Club upstairs in Walker. I wrote a bridge column for "The Tech". Jim died decades ago, and I've lost touch with Harry. I also occasionally played mediocre badminton and tennis. One of my more memorable academic moments occurred in 18.02S, an honors section taught by Prof. John Nash in the spring of 1959. As later explained in Silvia Nasser's book and the now-famous movie, "A Beautiful Mind", he was institutionalized in the middle of that semester. When he was replaced with another professor, many other students asked us whether we had seen him do anything that seemed crazy. And indeed, there was such an event. In a lecture a few weeks before he disappeared, on the board he drew a conventional diagram showing a vertical y axis, a horizontal x axis, and a unit circle in the complex plane. He wrote an equation, "e^i theta = cos theta + i sin theta", and he talked about something or other that seemed appropriate with this background. A student then asked a question, "What is the difference between the complex conjugate and the reciprocal?" Nash gave this unforgettable response: "If I reflected you in a mirror, you might live, but if I turned you inside out, you'd die for sure". No one in that class asked him any more questions after that, either in that lecture or in any of the several more which followed it. Another exciting course I took in the spring of our freshman year was an introductory computer programming course taught by Prof. John McCarthy. It was among the first such courses anywhere. We punched cards and submitted them for overnight runs on an IBM 704. McCarthy encouraged projects, and I joined with classmates Alan Kotok, Mike Lieberman, and Chuck Niessen to write a rudimentary chess-playing program. Kotok later expanded and extended this program into his thesis, and went on to design the PDP8, KL10, and PDP10 machines at DEC, before becoming a deputy director of the world
wide web prior to his untimely death in 2006. McCarthy moved to Stanford, and became increasingly famous as a founder of "artificial intelligence". He died in October 2011. It's clear we're all getting older. In graduate school I lived in an apartment in Brookline and commuted by bicycle because of the limited parking on campus. Some things never change. In 1991-1993 I returned to MIT as a visiting professor. In the ensuing 30 years, there had been a big and welcome increase in the number of women. Dorms had become more crowded. But I was surprised at how little many aspects of the student culture had changed.

Tell us about your professional life and experiences since you graduated from MIT:

As a course VI major at MIT, I was also a coop student at Bell Labs. My first boss there, in the summer of 1960, was John L. Kelly, Jr. His 1956 paper on the application of information theory to the optimization of financial portfolios hadn't yet attracted much attention beyond a small circle of information theorists. In 1960, we worked on speech compression. In the summers of 1961, 2, and 3, I worked in other areas: solid state physics, computer science, and mathematics. I did poorly in the first but succeeded in the latter two. When I finished my PhD I was recruited to become an assistant professor at UC Berkeley. I arrived there in 1964 just in time to witness the "Free Speech" movement. I soon also became a consultant to the Space Communications group at Jet Propulsion Lab in Pasadena. Air fare from Oakland was then $11 each way. There were no security lines. JPL sent a helicopter to meet me at LAX, and there were occasions when I travelled door to door in under two hours. Today 3.5 hours is a good time. Yes, there are some respects in which the fruits of technology have gotten notably worse in the past 47 years. In 1967, I joined the Math Research department at Bell Labs, and stayed there until 1971 when I returned to Berkeley. Most of my work in the 1960s dealt with information theory and error-correcting codes. I had the benefit of some extraordinary colleagues and coauthors, including Profs. Shannon and Gallager at MIT; Ron Graham at Bell Labs; Gus Solomon, Lloyd Welch, and Irwin Jacobs at JPL. (Jacobs later founded Qualcomm.) I also had some spectacular students, including Ken Thompson who co-invented the Unix operating system. In 1968 I published my first book, "Algebraic Coding Theory". In 1973 I was president of the IEEE Information Theory Society. In the first grade in 1946, I learned to play a paper and pencil game called Dots and Boxes. I've been interested in mathematical games ever since. I met Richard Guy in 1967 and John Horton Conway in 1969, and we agreed to write a book on combinatorial games. The result was a treatise called "Winning Ways", first published in two volumes in 1982 and then republished as a new and expanded four-volume edition in 2001, 2002, 2003, and 2004. Interest in that subject continues to grow, both at specialized academic conferences and at events sponsored by G4G, a nonprofit organization honoring the late author Martin Gardner. I've also had some interesting adventures in business. In 1974 I founded a small consulting company called Cyclotomics. In 1982 I reduced my faculty appointment at UC Berkeley to half-time so I could devote more effort to Cyclotomics. We did several interesting projects in error-correcting codes and synchronization. These included the downlink on the Hubble Space Telescope, a few military communications systems, and several memory systems including optical video disks and Cinema Digital Sound. We grew to 40 people and were acquired by Eastman Kodak in 1985, who renamed us "Kodak Berkeley Research". I became interested in quantitative finance. After leaving Kodak in 1989, I bought out Jim Ax, founder of a commodity trading firm called Axcom, which then managed a small fund called Medallion, whose pool operator was Jim Simons. We had an extraordinarily good run, recovering from a significant drawdown earlier in 1989 and then realizing a net 55% return to investors in 1990. Simons wanted us to increase our investments in the managing company and move everyone to Long Island. I didn't. So in 1991 I sold out to him for 6 times what I had paid Ax. Simons also got a very good deal, as under his leadership Medallion went on to set a long string of performance records. In the next two decades, it became the best-performing such fund ever, with annualized net returns to investors exceeding 30% over a period exceeding 25 years. In 1991 I resumed teaching and research. After two years as a visiting professor of math and EECS at MIT, I returned to Berkeley. My foremost research interest became the application of combinatorial game theory to the Asian board game called Go. My former student David Wolfe and I coauthored a book on this subject which was the first (and possibly only?) Go book to be translated from English into Japanese. In order to extract more quantitative information about the game from high-ranking professional Go players, I invented a variation of the game called "Coupon
Go". Thanks largely to the interest and enthusiasm of a famous professional 9-dan Go player named Jujo Jiang, tournaments in this variation have attracted more than a dozen of the world's foremost professional Go players. There was one held in Seoul in 2007, and another in Beijing in 2010. Jujo is planning to hold more. In the past two decades I also became more involved in nonprofit institutions, including the Mathematical Sciences Research Institute and the International Computer Science Institute in Berkeley, the National Academies of Science and Engineering in Washington, and several K-12 educational initiatives.

Tell us about yourself and family and interests over the past 50 years:

In my first semester teaching at Berkeley in fall 1964, I shared an apartment with an Englishman named Grant Lewison. I occasionally practiced juggling, including some tricks in which the balls are bounced on the floor rather than thrown in the air. Initially unbeknownst to me, this caused loud noise on the ceiling of the apartment below, which was inhabited by two young women. One of them came up to complain. Grant was lovestruck with her. I was paired up with her roommate, Jennifer Wilson. They soon broke up, but we never did. Jenny is English. She spent the WWII years in Australia, and then grew up in the retreating rear guard of the British empire, including pre-Mao China, India, and Sri Lanka, before going to high school in the English Lake district before attending Stanford and then finishing her degree in British literature at U.C. Berkeley. After our marriage, she played an important role w.r.t. employee morale at Cyclotomics. She was also an early supporter of the Crowden School of Music in Berkeley, and a co-founder of the East Bay Youth Chorale. We're looking forward to our 46th wedding anniversary in August 2012. We have three children. Our oldest daughter, Persis Berlekamp, is now a tenured associate professor of Islamic Art at the University of Chicago. Jenny and I can speak of her with great pride, but neither of us knows enough to give her much professional advice. Persis is spending the 2010-2011 academic year visiting Harvard, while her husband is in an executive program at MIT’s Sloane school. Our second daughter, Bronwen Berlekamp O’Wril, lives in Portland ME, where she is a nurse practitioner with Planned Parenthood. She and her husband are parents of our two grandchildren, now aged 0 and 3. Our son David is by far our youngest. After earning his BS and MS from Stanford, he switched both his major and his institution. To my great surprise, a few years ago he became a mathematics graduate student at U.C. Berkeley. When that happened, I finally decided to fully retire from my campus office. One Berlekamp in that department is enough, so I got out of his way. Both of our daughters did their undergraduate work at Yale, where they were heavily involved in a capella music. In her senior year, Bronwen was pitch of "Whim 'N Rythm", the sister group of Yale's more famous (but definitely no better) "Whif'N Poof"s.

Marilynn Hope Arsey Bever

Course: XXI

Tell us about your recollections of your student years at MIT:

As one of 98 women among 928 men, it was DELIGHTFUL. Freshman year was very challenging, academically - and I experienced a bout of pneumonia that caused me to rethink all my social butterfly lifestyle and how it was affecting my studies. The Spring Term, I shared a room on Bay State Road with Barbara Partridge - and it faced the street and a fraternity and Student House. I worked 90 hours a week to regain my academic status at M.I.T. - and to let my parents know that I appreciated the sacrifices they were making, financially; I was a New York State Scholar and had
been accepted at Syracuse U. and Elmira College. The pull of cultural life in Boston as well as the diversity of faculty at M.I.T. won out over being a commuter to R.P.I! I loved the big Physics Lecture classes, the small Humanities classes and hated the food. Theater in Boston was in full swing - and I loved going with William Zoller from Bradenton, FL. I'll never forget how he ROMPED in the snow - having never experienced WINTER in his life. I was editor of BEAVER BUZZ which was sent to our parents to help keep them in the loop with campus activities - and ironically, I met and married Jim Bever in my sophomore year - and became BUZ BEVER to all my friends and family. Second year was tougher, not so much socializing - and by December I was thoroughly disgusted with the chauvinistic behavior of one Architecture Dept. faculty member. The Dean of Women, Ruth Bean, took no action - it was only 1959 and civil rights laws were years into the future. Following my divorce in 1969, I returned to continue my undergraduate studies - and the first term I was absolutely catatonic - and felt completed overwhelmed by the brilliance of my classmates. Ten years had made a vast difference in high school curriculum. I had two young daughters to raise alone, and I often worked two jobs to keep financially stable. I loved the IAP when I met many academics from Ghana who worked alongside Prof. Hans Guggenheim - and I discovered History of Technology and the excellent Fine Arts courses. In the Spring of 1971 the campus came to a stand-still with the bombing of Cambodia - and M.I.T. students rose to the occasion with brilliant solutions to the demise of services by Western Union. The amateur radio club communicated with Ham Radio Operators in Washington, DC and established a link using a Form signed by M.I.T. students, faculty and staff which stated their home state -- and thousands of names were forwarded verbally to each Senator expressing our support for stopping the War in Vietnam. I sat next to Tom Lahr - yes, the song writer & performer, and he was rather shy. One day three men in black suits - YES, the Men In Black really did exist - one with camera / flash attachment - and they methodically clicked pictures of every single person working the tables where the folks registered their comments. I've not used Freedom of Information Act to determine whether I have an FBI file, but I wouldn't be surprised. It was not until 1975 when I was financially able to return to M.I.T. - and my focus was on completing the required courses - which had changed significantly over the years. My big effort was on my thesis, "The History of Women Who Attended M.I.T. from 1871 to 1935". There were over 1,000 women identified - the old fashioned way by thumbing through individual hand-written registration cards whilst sitting in the Registrar's Office. It was challenging because gender was not identified - and many names could be either male or female. I also conducted a small group of oral history interviews with women in the Class of 1935 - and their lives were TOUGH - living at home, commuting up to two hours each way, to attend classes where they were not welcomed or encouraged to enter fields where women were pioneers in engineering and science. The chauvinism I faced in 1958 was minor in comparison to their challenges. Graduation in 1976 was very special - I was well known to the Faculty and everybody cheered when I crossed the stage to receive my diploma. Among my graduating class was that lovely African-American astronaut who lost his life in the Challenger accident a few years later.

Tell us about your professional life and experiences since you graduated from MIT:

As a young woman reading about the Renaissance and Leonardo de Vinci, I decided that I wanted to become a Renaissance Woman. I had no role models - only my internal drive and curiosity to continuously be challenged - and never bored. Some folks, like Douglas Drane of ATEX, thought I was a rolling stone - and not focused enough. Every family member with the exception of my father, worked for one corporation for their entire lives; I saw them as "gray" and not fulfilled. My professional life included serving as Assistant Editor of THE JOURNAL OF MARKETING learning about publishing from Edward Bursk, famous for building the Harvard Business Review to a massively influence on world business leaders - I had been fortunate to stumble upon the International Marketing Institute summer program in 1971, led by Prof. Bursk and a team of brilliant marketing academics and Fortune 500 executives. The J. of Marketing was charged with two things in 1976: To change its focus (and Ed Bursk certainly gave Mary Stibal and I a free hand to solicit a broad range of topics never published previously in juried academic journals) and to improve the "look" and readability of the quarterly magazine. Two things happened that changed the course of my career: Myra Lee Conway of Boston, a RISD and Yale U. graduate, developed a fabulous format for the graphic design. And I was the liaison to our printer in
Worcester, who used Mergenthaler typesetting equipment; our editorial offices used DEC computers with word processing. There was a young engineer in Worcester who said to me, "I know how to connect your DEC to my Mergenthaler - if we can simplify the article formats - you know, use special codes to create bold, italic, indents. Are you game to try this?" It was not until the mid-1980s that I met that young man - again - as a colleague working at ATEX. So I was a pioneer who helped launch Electronic Publishing. Do to a strange set of circumstances, the Journal of Marketing job came to an end in 1978 - and I was unemployed. Myra Lee Conway told me about a small company in Cambridge that taught people how to do typesetting on computers - and I spent almost six months mastering those skills and working on Ms. Conway's client projects - including the Ansel Adams book in 1979 which won a national prize for its graphic design and typesetting. I became so proficient at these new skills that people suggested that I lease some equipment and set up my own typesetting business. The Small Business Administration provided me with a delightful young Harvard Business School management consultant - who tried to help me learn how to run a profitable business. My business, The Last Word, started out life in the Brookline Arcade and eventually grew to include printing at a basement level shop at the corner of Harvard Ave. and Commonwealth Ave in Brighton. I created hundreds of resumes for M.I.T., Harvard, B.U. and B.C. students. And that was when I met Michael Bronner - who went on to create AMEX Rewards program and found DIGITAS - and who hired Mary Stibal as his right-hand person. In 1980 I suffered a blow from which I never thought I'd recover - the Chinese restaurant on the upper level of my shop's building discarded bones down the drain, and the plumbing backed up - and eventually every toilet in the building ran down-hill and landed in my shop. There was over six inches of water and fecal matter everywhere -- nothing could stop it until the City of Boston shut down the main water main. Everything I had worked so hard to create was damaged - I faced bankruptcy and did not take that choice - perhaps a faulty decision with hindsight. I was living at Longwood Towers with my two daughters at the time, and with the stress of the catastrophic damage to my business and equipment, and sudden loss of my focus, I developed hives. One of my dear friends suggested that "God really needed to grab you, Buz, by the scruff of your neck to get your attention to see that another career awaits you." Wow - that got me thinking - and pausing the moping around. It was not until two months later, when I no longer was "pink" from scratching the hives - that I saw an ad in The Boston Globe for WANG LABORATORIES, seeking a manager for their Electronic Publishing Department. I was the 52 person interviewed - and got the job. I was living in Jamaica Plain; both daughters had moved on with their own lives - and I did not have a car. I was financially scraping the bottom of the barrel for the first six weeks until I was suddenly WEALTHY again. I took the train from North Station to Lowell - until I helped to organize a Commuter Bus to Wang (which I never participated in due to my out-of-way residence in Winchester). I worked at Wang Labs for four years - and became, again, a pioneer in connecting Wang to XEROX 9k laser printers to create On Demand Printing. I also was launched into my academic career when Dr. Wang "lent me out" to be a speaker at the Mass. College of Art who organized a national colloquium on the State of Art Education. I provoked the other industry-related attendees to "walk the talk" by actively participating with the schools - including the new Art Institutes just launching in several U.S. cities. Immediately after that presentation about Wang-Xerox collaboration, the Dean of the School of Graphic Design approached me and said, "OK, Bever, let's put your mouth to the test. How about starting us off with a course on Trends in Electronic Publishing - and what do you know about Computer Graphics." So I became a night-time Lecturer at MCA - and soon there after at Northeastern U., RISD, B.U. and The Ohio University. My first class at MCA had 55 people signed up - so I was RUNNING to stay ahead of The Mob. One student cried at every single class - until the very last, the Exam which she passed with flying colors - and was awarded the STAR award by me, to the applause of her class-mates. It was tough work to create a curriculum from absolute scratch for a field that was expanding every month with new entrepreneurs like Steve Jobs and those wise kids at Sun Computers and Bill Gates. The SIGGRAPH was held in Boston during those early years - and the SUN computer literally had a cardboard housing - and drew the most crowds - understandably. Adobe was brand new - and the typography community was madly working on new fonts for this blossoming industry. I left Wang Labs in 1984 to join ATEX where I worked on The Boston Globe's production challenges - and won no friends when my analysis announced that four - count 'em - 4 Apple MAC computers could handle their peak needs. No wonder I
was terminated at ATEX later - and then called back within 3 days as a pricey consultant, whose input was DEMANDED by the Globe - for my truthfulness. During that period I also worked at Compugraphics in Woburn, and disliked the limited routine - plus the nasty smells which later were identified with cancer causing waters nearby; at Computervision - with our classmate Bart - where I was blessed with much travel - including England - as the Product Manager for Electronic Publishing. In 1988, after scraping my windshield 51 times, I had it with New England winters - and closed up my apartment, had a big yard sale - I admit I'm a "collector" - and moved to Florida where I resided for 22 years. I had two careers there - business consulting and as a licensed Financial Advisor with AMEX - now called Ameriprise. I moved to Punta Gorda just in time for Hurricane Charley - lost my home, moved to Tampa (which was bloody hot ALL the time), and back to Port Charlotte where my paternal aunt, Emily Hughes, resides. Family illness with my daughter - and the birth in 2007 of my beloved grand-daughter, Victoria - named for my Mom - brought me to S.E. Massachusetts, where I had never lived. I had a small apartment in Fairhaven, near New Bedford, until a weird auto crash into my building, forced my evacuation by the Fire Chief - and my "Knight in Acura", Harris O’Brasky took me in - as I thought just for the weekend - but here I am four years later, learning to live in Oak Point - driving 6 miles or more to fetch ANYTHING. I crave my apartment in Longwood Towers - now VERY pricey condos - to be close to take advantage of the cultural diversity offered in metro Boston. So I'm launching my business consulting business - again - and also marketing my own jewelry and designs as e-books. It is FUN to be active - and I adore working in my pink Dreamdeer slippers - not concerned about having a corporate wardrobe. AND the flexibility to take a nap whenever I need one! So I'm not yet famous - but I believe I've led a Renaissance Woman life.

Tell us about yourself and family and interests over the past 50 years:

I was married to James Gordon Bever on January 30, 1960; he was the grandson of a motion picture producer and theater owner - Nathan Gordon. His uncle was William J.J. Gordon, creator of Synectics - inventor of Pop-Up Kleenex, Pringles chips, Playtex Nurser - notice the interleaf motif. We had two daughters - Sarah (born April 3, 1962) and Claudia (born September 1, 1964). We lived in New York City, Cambridge, Washington, DC, McLean, VA (where I was stopped by police for walking!), Needham, MA and Georgetown, MA - where we divorced in 1968 - and I moved back to Brookline. The girls are grown with families of their own. Sarah married William Elliott of the mainline Philadelphia family who started First PA Bank and Sunoco - they met in Maine, and had two sons - whom I've never met. Sarah decided that her Dad and I were not wealthy enough - not suitable for her new society friends. She has been married / divorced twice - and working on third marriage. Claudia never married - and she launched a retail clothing boutique named "Gifts From The Magpie" in "downtown Middleboro" which is growing apace. She is a very talented designer - and thoroughly enjoys expressing it through garment designs. Her daughter is BRILLIANT - and loves enumerating - so we've dubbed her "The Countess". I never re-married - fell in love with Harrison Gass of Newton (who was much older and widowed and not interested in fathering my daughters except at arm's length); Warren Stone, publisher at Addison Wesley, who became a friend after renting my summer home on Rocky Neck, Gloucester - but THAT's a WHOLE BOOK of stories; Richard - in Florida, who helped me survive the east coast hurricane and transition to re-joining F/T career, once again - and finally - or maybe NOT finally - HARRIS PRESS O'BRASKY, the grandson of founder of J. Press - the first-born and true Prince of Press - a retired executive from TJMaxx and chairman emeritus of SCORE Chapter #422 - S.E. MA - where I met him. I neglected to mention my service with SCORE from move to Punta Gorda - for a total now of seven years volunteering as SCORE Business Counselor. My familial relatives are scattered across the U.S. - and like many others, we see each other infrequently - but stay in touch via EMAIL - and hopefully, when I learn how to install and use it - SKYPE. My close friends - Justine Jarosz, Mary Stibal and Georgianna Yoder - are my family of choice - as well as those I've learned to love at Oak Point.
Ronald Charles Bierman

Course: XXI

Tell us about your recollections of your student years at MIT:

I remember roommates and friends, Norbert Weiner, Huston Smith, Noam Chomsky, Ernst Levy Norm Holland, Smith House, the Reactor diner, the Techtonians and, of course, Smoots. I also remember how demanding MIT was. It has made many of the difficult things that came later in life seem relatively easy.

Tell us about your professional life and experiences since you graduated from MIT:

When I graduated from MIT I went to work as a computer programmer for Philco which was owned by Ford. When Philco dropped the computer business in 1965, I was already in Dearborn, Mich. supporting Ford Engineering's Philco computers (fastest in the world at the time), so I transferred to the auto company. I retired in December, 1996 after jobs ranging from Systems Manager of Truck Operations to Worldwide Systems Planning Manager. On that assignment I did quite a bit of traveling in Europe, South America, Australia and New Zealand.

Tell us about yourself and family and interests over the past 50 years:

I married my wife Nowell in 1965. She also worked at Ford, eventually retiring as assistant to the VP of Purchasing. Our son Mark is Editor-in-Chief of Southern Living Magazine, a popular Time-Life title. Nowell and I moved to San Diego in 1997 (she has relatives in the city) and we love the area. Music, health clubs, golf and other activities keep us busy. I head Advocates For Classical Music, a nonprofit whose docents (including Nowell and I) visit schools to prep as many as 14,000 kids a year for their trips to San Diego Symphony and Classics 4 Kids concerts. I also write for a few Internet sites that send me CDs and books for review, and have developed Web sites for small businesses.

William Douglas Bloebaum, Jr.

Course: X

Tell us about your recollections of your student years at MIT:

MIT was a great experience for me, both in and out of the classroom. Having grown up and graduated from High School in Southern California, life in Boston and Cambridge was significantly different, and I felt figuring out how to get myself to and from Boston by air and automobile was a huge part of what I learned. I lived in the Phi Sigma Kappa fraternity house for my first three years, and Margaret and I were married in August of 1961 and lived in Cambridge for my senior year. She was my “blond scholarship” for the last year at MIT and two years at Stanford Business School, and having her experience time in Boston/Cambridge and meet so many of my friends made her attachment to MIT almost as strong as mine. I played and lettered in both basketball and baseball for my four years at Tech and my closest friends were my PSK fraternity brothers, and teammates in these two sports. Our ‘61-’62 Varsity Basketball team set a record of 15 straight victories, which has just been broken by the team of 2011-2012! Our Varsity Baseball team beat Harvard in 1960, a game I will never
forget. Jack Barry coached both sports for three years and he became a close friend. We stayed in touch
until he died, and I was able to visit him in Maine and even play a round of golf. My education in the
classroom and sport venues set the foundation for my professional career and prepared me for
competition in the international world of business.

Tell us about your professional life and experiences since you graduated from MIT:

After graduating in 1962 I went directly to Stanford (in those days it was not unusual to go right on to
business school without any work experience) and graduated in 1964. Our three children were born in
1965 (Doug,) 1968 (Lisa,) and 1972 (Mike.) The first 1/3 of my career was in technical sales and
marketing (petrochemicals with Chevron Chemical Co., cryogenic equipment, computer-based process
control equipment with AccuRay Corp.,) the next 1/3 in finance (General Manager of a leasing division
and International Treasurer with AccuRay, Corporate Treasurer for the Mead Corporation,) and the final
1/3 as President of Mead Pulp Sales, a division of Mead. During my working years our family lived in
both Northern and Southern California; Louisville, KY; Columbus, OH; Brussels, Belgium; and Dayton,
OH. The time in Belgium was life-changing, professionally for me and experientially for all five of us.
My career turned out to have a strong international focus, and I have been fortunate to travel for business
and pleasure to over 50 countries. I retired on December 31, 2011, from Mead and Margaret and I have
chosen to stay in Dayton, OH.

Tell us about yourself and family and interests over the past 50 years:

Our family has been blessed with good health and opportunities. Throughout my adult life the order of
my priorities has been my relationship with God; my family; and my career. I have seen God at work in
me, including the current retirement years during which I have made over twenty foreign trips to help
 teach business seminars in developing countries. Most recently Margaret and I spent 4 months living in
China and helping with programs for college students and recent graduates, and for business owners and
senior managers. And while I have been working and volunteering my time, Margaret has managed our
home and played the key role in raising our children. She has also been able to travel extensively with
me and is my best and closest friend, and last August we celebrated 50 years of marriage. During these
years all of our children have been happily married and provided us with nine wonderful grandchildren
that range in age from six to seventeen. My current hobbies are biking (on a tandem with Margaret and
over the countryside on my road bike,) lots of walking, and waterskiing.

Joseph Robert Bloomer

Course: XXI

Tell us about your recollections of your student years at MIT:

I foremost remember the spectacular education that I received, which has impacted everything I have done and accomplished in
my professional life. I have repeatedly said that MIT gave me a premedical education that could not be equaled anywhere else,
both in terms of quantity and quality. Nor could it be equaled in
terms of rigor (I still shudder when I think of the Friday night quizzes, particularly walking to them when Winter had come). Frankly, medical school was easy
compared to MIT. I also remember the caliber of my fellow classmates, whose most important quality
was intellect, not family name nor wealth nor previous education- at MIT we were all treated the same, and you either made it on your own or you did not survive. However, there was still time to have fun, and Boston was a great place to go to school, particularly for a kid from a small town in Indiana (think of Hoosiers). Needless to say, basketball remained in my blood, and I spent many great times watching the Celtics play (the days of Russell and company), and I had a lot of fun playing on the Burton House intramural team, particularly when we beat the frat teams (as we usually did). Fall in New England was also a treat, and the Charles River was a wonderful backdrop. I have attended many meetings in Boston since I graduated, many of which were held just across the river from the MIT campus. I still get a rush of pride when I look at the big building where I spent 4 years of my life, and I borrow a little from the Sinatra song, "If I could make it there, I'd make it anywhere."

**Tell us about your professional life and experiences since you graduated from MIT:**

After my graduation in 1962, I attended medical school at Western Reserve in Cleveland for 4 years, medical residency in San Francisco for 2 years, clinical associate at the NIH for 3 years where I began liver-related research, hepatology fellowship at Yale University followed by a faculty position there for 7 years. I was then called back to the midwest and the Big Ten through the offer of a professorship at the University of Minnesota, where I was in the Dept of Medicine from 1979 to 1995, Director of the Division of Gastroenterology and Hepatology during the last 12 years. The cold weather finally was too much, and I left to take the position of Prof of Medicine and Genetics, Director of the Liver Center, at the University of Alabama at Birmingham in 1995, a position that I continue to hold. I have been funded by the NIH to do research in metabolic liver diseases since 1976, with a MERIT Award from 1994-2002. I was President of the American Association for the Study of Liver Diseases in 1999, and received the Distinguished Service Award from that organization in 2009. As a result of my research endeavors, I was elected Chair of the Gordon Research Conference on Pyrroles 1994-1996, and received the Theodore Woodward Award from ACCA in 1999. I have maintained an active practice in hepatology at all stops along the way, and I have been cited as one of America's Top Doctors since 1995. I stopped playing basketball 40 years ago, took up running and finished 3 marathons (both New York and Boston), and tennis for the past 12 years (which keeps me very humble).

**Tell us about yourself and family and interests over the past 50 years:**

I grew up the eldest of 5 siblings born to Dr. Richard and Betty Bloomer in Rockville, IN, and we all remain alive and very close to this day. I was fortunate to meet my wife, Anne Macinyre, in medical school, and we will celebrate our 47th wedding anniversary this year. She has followed me everywhere that I have gone without complaint, although she was not enthralled about the Minnesota move, and was delighted to go South. She has written 5 textbooks on teaching math to gradeschool students, one of which was an award winner (something that my colleagues have reminded me that I have never done). We have had 2 children. Jen, the oldest, played varsity soccer for Stanford during the Fowdy era, then got her MD degree, and now practices as a hospitalist in Denver. She and her husband have 3 lovely and talented daughters, who bring a great deal of joy to their aging grandparents. Jeff graduated from UAB cum laude in Radiological Sciences. His avocation is making film documentaries, at which he has shown significant talent, and he was given the Mississippi Film Festival top award for this in 2011. Anne and I are very content in Birmingham, have a wonderful house with 2 acres of woods behind, and root avidly for the Blazers basketball team as well as for the national champion Alabama football teams (Roll Tide) during the past 3 years.
Robert T. Brady
Course: II

Tell us about your recollections of your student years at MIT:
The first three months at MIT were the most trying experience of my entire life. I came out of high school thinking that I’m not Hollywood handsome, I’m not a gifted athlete, but I am a bright boy. After a few weeks of regular Friday tests I began to fail every week. It seemed that the bright boy feature had evaporated. The Prof who ran freshman physics, Uno Ingard, presumed that you had already taken calculus, and I hadn’t. Every lecture was a complete mystery. Thankfully, the final was in January and my brother (MIT ‘57) taught me physics over the Christmas holiday. Having survived the first term, I regained my equilibrium. After that, school was a lot of work, but I could occasionally make Dean’s list. I rowed all four years, and that was a lot of fun. I joined the Theta Chi fraternity and lived with a lot of interesting guys who were a lot of fun to be around.

Tell us about your professional life and experiences since you graduated from MIT:
I came to MIT hoping to be a mechanical designer. The opportunity to watch some gifted engineers at work persuaded me to rethink my objective. I had a Navy commitment, and spent two years in shipbuilding in Brooklyn. I decided I wanted to be a manufacturer. A fraternity brother, John Rollwagen, had gone directly to the Harvard Business School. He persuaded me to give HBS a look. His pitch was that, compared to MIT, business school was like going to the movies. I followed his lead. While I was at HBS, a professor challenged the class to draft a career plan. After a couple of failed attempts, I hatched the plan which I’ve been on for 45 years. I decided that I wanted to work for a small company that made an interesting mechanical device and sold it to the aerospace industry. I found one in my hometown. I joined Moog Inc. (NYSE: MOG/A) in 1966. It was then a $25 million producer of servovalves. I became CEO in 1988 and after 23 years as CEO, I have been promoted to Executive Chairman. The Company is now $2.5 billion in sales. We produce flight control actuation for the most advanced military and commercial aircraft (F-35 and 787), positioning controls for satellites (this is rocket science), and a broad range of high performance control systems for industrial machinery and medical devices. We have 10,000 employees and operate in 27 countries. Moog’s technology attracts really talented people who work in a highly collaborative atmosphere. Being CEO was a real pleasure. In short, I’ve had the opportunity to do exactly what I wanted to do. I’ve been incredibly lucky.

Tell us about yourself and family and interests over the past 50 years:
In 1968, after an 11 year acquaintance, I married Ann Stephens, the younger sister of a high school friend. She was, at the time, a systems engineer for IBM, but short-circuited her career to raise three kids. I’m still crazy about her. The kids range in age from 38 to 42 and they are our best friends. Both Ann and I are enjoying remarkably good health, given our advanced years. My major frustration is that I can’t get my handicap down to 15.
Tell us about your recollections of your student years at MIT:

My first memory of MIT as a freshman in the East Campus parallels is awakening drenched at 2 AM to see three sophomores standing over me holding a long rubber tube, swollen with water, spewing its contents on me and my mattress. In my first calculus course, Professor Eric Reissner was chalking solutions on the board in unreadable small font, when a fearless classmate asked him to write larger so we could see. Reissner turned and replied “When it is important, I'll write larger.” In my first attendance at an extracurricular lecture in 10-250, Prof. Norbert Wiener started off his talk by circling beneath the overhead lights, which he seemed to be observing. After few minutes, a graduate student in the front row interrupted him with a question. Prof. Wiener, fascinated by the inquiry, sat down next to the student and engaged in a conversation. Soon Wiener was leaning so far back he could no longer be seen or heard. Our MC for the lecture soon appeared up front, announced the lecture was over, and invited anyone who wished to remain to come down and listen. My first student job was working in the admissions office, giving tours, filing records, and extrapolating SAT raw scores beyond the 800 cut off point. By chance, I came upon my own folder, and could see, without surprise, that I was one of those who had barely made it into the class of 1962. Julie McClellan, who ran the admissions office brilliantly, spotted me staring at my folder as she walked by and quickly whisked it away. (By the way, the number of students whose raw scores on the SAT Mathematics Level II exam projected well beyond 800, or into the 900 range, was stunning - enough to populate several junior & senior year level math classes with freshmen.) One day a knock came at my door on the 4th floor of Wood. It was a senior, David Montgomery, asking if I would like to chair the TCA booth at the APO open house fair in Rockwell Cage. Gullibly assuming there was already a committee, I accepted. But it soon turned out there was no committee. A week later I had put together a committee from the 4th West, Class of 1962. We brainstormed through several ideas for a booth and settled on one inspired by my memory from, Jr. high school days of throwing toilet plungers at stop signs, or sides of parked panel trucks, so that the plunger, after tumbling end over end like a thrown knife, would hit head-on and stick. We found two huge circular, wooden tabletops in the basement of East Campus. We sanded and then applied a glossy white finish. In the centers, we painted the Great Dome encircled by a black toilet seat. We made stands for the table tops, the targets were ready. Next we constructed the booth, with a banner proclaiming “Flush the Institute.” We also dispatched a subcommittee to identify the noisiest, most odd sounding toilet in East Campus (it refluxed several times after flushing) and recorded it in a tape loop. David LaForge loaned his amplifier, tape deck and speakers. I went to Central Square and wiped out the plunger inventories of a couple of hardware stores. Then we assembled to test and improve our skills. We had to spill out into the local neighborhood to find suitable targets. We got plenty of amused or puzzled onlookers, and we certainly did not improve MIT’s student reputation in the community. This practice went on over several weeks, because getting a plunger to land head first and stick was quite difficult. We realized that to attract the crowds to our booth at the APO charity fair we would need to plant some of us as shills in the customer lines. Jack Walker became an awesome plunger thrower and on fair night was our most valuable shill. We also found in testing, using our actual targets, which a plunger would stick more readily if it was first dipped in water. Bob Wong ’62 reminded us of the dirt floor at Rockwell Cage - that is, “expect muddy plungers” so; I made another trip to the hardware store for buckets to hold water. The plungers would have to be rinsed as well as wetted. And we would need someone with a rag to keep the targets clean. We would need a crew to chase the plungers thrown wild or retrieve plungers which bounced off the target into the dirt. But who? Why not invite girls from the freshman women’s dorm across the river at Boston University? I was assigned to call the BU dorm. A junior had a book of photos of the BU
freshman class girls, so I was able to call less randomly. The response from cold calls to BU was positive and quick - yes they would help. All they wanted was a ride over to MIT. Juniors & seniors from our 4th Floor West volunteered to chauffeur BU girls to the fair. Problem solved. On the day of the APO fair, our booth committee lugged the materials over to Rockwell Cage and assembled our booth. The tape loop blared out “Step right up and flush the Institute!” followed by the sound of our East Campus toilet roaring then gurgling into stasis. We filled our buckets of water, set out rolls of tickets, and dunked 3 plungers into each bucket. The carloads of girls showed up, most of them in short shorts, and they gathered round their buckets. As the crowds poured in, it certainly was the sight of all the BU girls that drew potential players near. Then our shills went to work, making the game look fun and even easy. People started buying tickets. One unplanned phenomenon (observed during early plunger drills) added a touch of Freudian symbolism and humor. When a plunger hit and stuck, the handle would first droop down, then gradually rise as the plunger took in air. Finally, just as the handle grew perpendicular to the target, the plunger would propel itself forward and fall to the dirt, depleted of its potential energy. At precisely such a moment, a BU coed in short shorts would run forward, bend down, grab the plunger, and return it to its bucket. Plungers were flying all over the place, yet the occasional winner, plus the success of planted shills, and the magnet of attractive girls gave us long lines most of the evening, and helped our TCA booth come in number two in cash generated, out of all the booths. The number one place went to a fraternity whose brothers staged a car demolition orgy. I recall that a single ticket entitled the holder to three mighty sledge hammer swings at a helpless old wreck. At the end of the evening, only one BU coed was left helping us. She was tall and attractive, but a sort of tomboy type; she liked hanging with our East Campus 4th West gang rather than being abducted by a smooth talking MIT fraternity senior with wheels. I wish I had gotten this BU girl’s name, but did not, so we’ll call her Athena. We packed up the stuff and lugged it back by hand at midnight down Memorial Drive to the parallels. Athena carried a bunch of plungers like a fistful of arrows over her shoulder. When we reached the West Parallel we signed Athena in (parietal hours). We all paraded up the stairs to the 4th floor. Going noisily down the hallway to our rooms, we passed Lew Norton’s door. We heard his door open and looking around saw Lew hushing us. Athena asked us “is that guy?” and she did a quick U-turn, marching us into Lew’s room before his door could be closed. Lew returned to his desk and his studies, while we milled about in his room. Unfortunately, Athena and we, her imitators, tried out the plungers on Lew’s floor and extracted several tiles quite rapidly. Lew looked around, glared at me, and said “Bragdon, you’re fixing that tomorrow.” We beat a hasty retreat and got things stowed away in our rooms. A senior with a car took Athena back to BU. I’m not sure what became of the tabletop targets (probably hauled them back later by car to the basement of the West Parallel) --but I like to imagine we rolled the table tops back by sidewalk along Memorial Drive. Sunday found me on hands and knees in Lew’s room cementing back tiles while he studied. When I was finished Lew nodded approval of the repairs and asked about the fair. I told him our TCA booth had come in number two in ticket sales. Lew thought that was great and we chatted about the booth and the reasons for its success. Monday morning, Dean John T Rule came charging into his outer office, where Lew Norton had a student job, asking “the heck is David Bragdon?” “Unbeknownst to our TCA committee when we originally planned our booth, the APO charity fair coincided with a huge Open House event including thousands of parents or prospective parents. “Flush the Institute” seemed to Dean Rule to be very poor marketing. Lew Norton came to my rescue by pointing out to Rule how many hundreds of dollars the TCA booth had raised for charity. This info diffused the situation. I was thankful for the plunger actions of Athena Saturday night which resulted in Lew being armed with the information. In closing, I would like to note that John T Rule, Dean of Students 1959 to 1961, and member of the MIT class of 1921, edited an infamous issue of “VooDoo”, in 1923 which so displeased MIT authorities that they deputized a small army of employees to fan out and buy up all remaining “VooDoo”, copies. In 1956, the infamous “Field Piece” issue of “VooDoo”, was similarly treated by then incumbent Dean of Students John T Rule. History repeats itself.

Tell us about your professional life and experiences since you graduated from MIT:

There is life after MIT, although I do look back on my years at the ‘Tute as ones of extraordinary experience and a period in which I formed great, lasting friendships. And of course “Tech is
“Hell” was also a transformative ingredient. I went to Tufts for a master’s degree in teaching, and then spent the next 45 years (prior to retiring from Nokia) in several pursuits: teaching (grades 4 through 12, and Math Dept. head at a K-12 private school), starting a so called alternative school, and then in corporate life as a software engineer at Gulf+Western, Shawmut Bank (wire transfer & a dedicated link to Fidelity), Digital Equipment Corporation (DEC), and Nokia (tools for cell phone app developers). Teaching was financially close to impoverishing, yet richly rewarding. Corporate life allowed modest asset growth, and was quite often exciting, although projects which failed to reach the real world or projects which demanded months of lockstep in a Death March (free pizza though) dimmed the glow. MIT provided good resources for classroom ideas. Through the AI Lab (and the help of a former student, Stavros Mackrakis, MIT Class 1977) I obtained LOGO for my school’s PDP-11. None other than Marvin Minsky’s daughter Margaret spent a couple of hours in the AI Lab teaching me LOGO. Seymour Papert was a prolific idea generator. DEC gave me the chance to restart my engineering interests, and to work both in New England and abroad on challenging engineering projects: Valbonne (France), Paris, Basel, Singapore, Hong Kong, Japan, Australia, Canada and also at the Kennedy Space Center (in the Shuttle Data Center [SDC]) where I witnessed the daytime launch of STS-87. The launch, which I watched with the SDC staff outside the giant old Vehicle Assembly Building (VAB), was Biblical -- blinding light, soundless trembling of the earth beneath my feet - yet made audible by the reverberating VAB metal structure, then finally the deafening noise of the STS-87 rockets, catching up by air to the rest of the spectacle. One project involving both MIT & DEC was DECathena. It was simultaneously the most exciting in action and most disappointing in failure of any engineering project on which I served. Ken Olsen, MIT Class of 1950, made the decision to get ROI for Digital from DEC’s part of the funding of MIT’s development of Project Athena. I joined the DECathena engineering team, and we certainly rose to the challenge of extending and generalizing the Athena technology, but we failed miserably to find significant corporate customers who were interested in the MIT Athena culture “Wherever you go, then there you are!” The world of Fortune 1000 cubicle & office inhabitants did not respond to our Athena idea of “occupying” any handy nearby workstation. As a result, DECathena caught on primarily with universities (who wanted it free) and investment banks - where traders would grab any workstation available to make a timely trade. I left DEC for Nokia after my networks group was sold to Cabletron. I much enjoyed my ride at the Finnish giant in their Burlington, MA, R&D group. I was able to work also in Helsinki and Espoo, fortunately not in winters. The sauna, de rigueur for every Nokia facility, was a terrific way to take breaks. I retired a few years ago and am now working with my CEO wife Regina in a company she founded in the elder care field. I at times feel more of a client than an employee. I think it is time to get myself fitted for the red jacket.

Tell us about yourself and family and interests over the past 50 years:

Family life and interests --I’ll keep this short. I have been married twice, or should I say I am in my second marriage and again truly happy. Although my first marriage lasted 20 years and we had good times and a wonderful daughter and son, in the second decade I spent too many months abroad on engineering assignments, or locally on Death March projects. The divorce, if painful personally, was as outwardly peaceful as one could hope for. I was given custody of the kids, and stopped travelling abroad on projects. The kids reacted in different ways. My daughter took 2 years off after high school and followed the Grateful Dead around the USA. My son switched from soccer to football as a defensive tackle and received his high school’s MVP award in his senior year. “Dad, did you hear that sack?” My current marriage followed upon the first, when, a year after the split. I met a divorced mother of two children, also with a son and daughter --so that when we wedded we were a Brady Bunch. All 4 siblings got along famously and still do. And now, 22 years later, we have 8 grandchildren. My own daughter
graduated in music and dance from University of Michigan and is a homemaker in Atlanta, GA, married to a professor in epidemiology. My son graduated from University of Michigan Medical School, spent 4 years residence in pathology, and is now Chief of Staff at the Misawa Air Base Hospital in Japan. By the way, when my son graduated from medical school, Jack Walker ‘62 and his wife Bev threw a graduation party for my son at their home in Ann Arbor. My wife, Regina, is also my CEO, as founder and head of Nashoba Valley Elder Care, Boxborough, MA. Regina will be in attendance at our 50th reunion.

Tell us about yourself and family and interests over the past 50 years:

Howard Edward Brandt

Course: VIII

Tell us about your recollections of your student years at MIT:

I am very indebted to MIT and the Alfred P. Sloan Foundation for financing my undergraduate education at MIT. I have benefited greatly from my MIT education in physics, mathematics, and the humanities.

Tell us about your professional life and experiences since you graduated from MIT:


Tell us about yourself and family and interests over the past 50 years:

I enjoy physics, mathematics, philosophy, theology, music, art, and my family. I have many published papers, have given many invited talks, and have traveled to many countries.
Tell us about your recollections of your student years at MIT:

I was an undergraduate at MIT from 1958 - 1962, in course 8, living in Baker House. I was then a grad student in course 8 from 1962 - 1966, living in Graduate House (now Ashdown House) till I was married in August 1964. I was a teaching assistant for several semesters, and then began work in the Molecular Beam Lab under Professor John King. Memories are almost too many to list: Concerts by The Kingston Trio, Joan Baez, Pete Seeger; rushing to see a solar eclipse from Mount Wachusett and running up the hill as the sky darkened (it was too cloudy anyway); tape recording “Forbidden Planet” on a Friday night in Kresge, with all the comments from the audience: “Why any quantum mechanics in the service” (10 minutes of laughter). But my fondest memories are of the famous “BU Lights” hack. In my freshman year, in the spring of 1959, my two roommates and I occupied room 646, a large triple in Baker House with a spectacular view of Boston across the Charles River. The room was unusual in that the desks were three large planks permanently mounted to the wall in front of the windows, end to end, with just a one inch high separating rail between them. As finals approached, the three of us would begin to lose our mental focus and start to stare out the windows by about 11:30 each night. Gradually we noticed that the illuminated signs across the river seemed to be on timers that turned them off about the same time every night: the Cities Service (now Citgo) sign went off at about 11:15, the Hotel Somerset at about 1 AM, and the illuminated towers at Boston University at about midnight. These latter were a pair of mismatched pseudo-gothic structures that most students (including those from BU) thought were hideous. For some reason (do MIT freshmen really need a reason?) we began to check the accuracy of the timers operating the signs by calculating means and standard deviations of the “off” times. Most of the timers were not that accurate, but the timer that controlled the BU tower lights went off at 11:57:24 on the dot, each night. Our time standard was a simple electric clock that we never unplugged. One evening we three (Sherwin Greenblatt, Geoff Chang and I) were discussing other schools in the Boston area, in our usual condescending MIT manner. We happened to focus on Lowell Tech where Bob Chang, Geoff’s older brother, was majoring in Plastics Engineering, making all the usual remarks about that “second-rate hack engineering school”, and how their students couldn’t analyze problems etc. Gradually, we hit upon a plan to prove this with Bob as the guinea pig (Geoff was just as contemptuous as Sherwin and I, and was happy to pull the wool over his older brother’s eyes). Sherwin (now retired as President of the Bose Corporation) was in course 6 (Electrical Engineering) and had an enormous collection of surplus electronic parts, mostly from “Evil Eli” Heffron, famous for military surplus in the Boston area. So we decided to set up a bogus “circuit” on the desktops and tell Bob that we had figured out a way to turn off the BU tower lights by remote control. The circuit would beep, flash lights, have meters jumping, but of course do nothing. But buried inconspicuously among the various parts was our electric clock with which we had been timing the lights. We planned to set things up and fiddle for about a half hour, then flip a switch at the right moment and count on the close time sequence (throw switch, lights off) to convince Bob that we had actually caused the lights to go off. Now I know this sounds implausible, but we did have a more elaborate story that the BU tower lights were “radio controlled” (remember analog “radio”? - my God, even tubes!) so the night watchman could turn off the lights from outside when he secured the place. The radio signal was “Pulse code modulated” to provide security, but we had “worked out” the code. (Garage door openers today use this method to prevent their transmitters from opening all the doors in the neighborhood, but I doubt that they did in 1959) We figured Bob might buy it, but “of course” no MIT student would! A big part of the play was the complexity of the equipment which consisted of several defunct electronic chassis, copious wires and switches, terminating in an actual James Millen grid dip meter which we were using as a “radiator”. (For all you non-amateur radio operators, the grid dip meter (those of you who were “Ham” operators will know what this was) which
was about the only functional thing in the entire conglomeration, but has no ability to “radiate” anything - in fact it operates by absorbing radio frequency energy and is used to tune radio circuits in transmitters - but Bob wouldn’t know this and it looked cool sitting on top of a Hawaiian Punch can with its meter that jumped with each pulse and the 3 inch long coil pointing at the towers.) To work the prank, we had to have Bob show up at the right moment since we did not think we could keep his interest (or keep our straight faces) as we set up all the equipment. Thus, the plan was to pull the prank on a Friday night, when Geoff and Bob often went out to a movie. We would have them return about 11:00 for the “performance” (Geoff controlling the timing). As it happened, they had car trouble and did not return till after 1 AM, and by about 11:30 Sherwin and I realized that something had gone wrong and were about to put all the stuff away. But then, a knock on the door! Mike Rosner (a senior in Chemistry) was writing his senior thesis and needed to borrow a copy of the CRC chemistry handbook (how had he avoided owning one till then?). Mike walked in and saw all the equipment on the desks and was intrigued, although we had not offered any explanation. As Mike exclaimed in his slightly British accent, “Wot’s all this for?”, Sherwin winked at me, and I winked at Sherwin and we went into our pitch. I imagine we suspected that a senior in chemistry who didn’t have a CRC handbook was gullible enough to believe us (sorry Bob, it’s just our MIT arrogance!). We explained what we were doing, and made a few adjustments to the “pulse rate”, timing it with our wrist watches to 73 pulses per minute, with lights flashing and meters jumping. At 11:57:24, Sherwin casually said, “Well, that should do it”, hit the switch to turn on the “plate voltage”. The tower lights went off, and Mike’s eyes grew to saucers. “Gawd damn! You did it!” he exclaimed, then with the CRC handbook in hand, he dashed out the door and ran down the hall babbling about what the “frosh” in 646 had done. Sherwin and I closed the door and rolled on the floor for 10 minutes. Then we recovered and put all the stuff away. Mike and a couple of others came back later and asked if we could turn on the lights again, but we explained that it was getting late and we had not worked out the “on” code yet. When Geoff and Bob arrived later, Sherwin and I were sound asleep, and we forgot about the whole thing till the next evening. At about 8:30 we began to hear a rumbling sound from the hall, followed by a knock. There were about 20 guys in the hall wanting to see us turn off the lights again. Thinking quickly, we told them we were still studying (it was just before finals), but that if they returned after 11 we would set the stuff up and do it. Worried that we could not fool this more discerning audience (including some EE majors), we spent most of the evening rethinking and embellishing the story, and adding some more junk to the mess of equipment. When everybody filed in at 11, we “tap danced in the swamp” for the required 57 minutes by endlessly adjusting things, and asking various people to help by timing the pulses. At 11:57:24, Sherwin declared things ready, hit the switch, and off went the lights with perfect timing. There was a roar from the audience, followed by long discussion of our technique, during we accepted suggestions from seniors in Electrical Engineering as to how to improve our “radiative pattern”, and several other aspects. As you might expect, their arrogance was exceeded only by their gullibility! Needless to say, breakfast in the Baker dining hall was all abuzz with our alleged prank. For a while, we could not understand why almost nobody was catching on. Then we realized that only about 5 rooms in Baker actually had an unobstructed view of the BU towers because of the trees and the unusual “W” shape of the building. We quickly talked to the people in those rooms and brought them into the gag, along with the very few who saw through it from the beginning. Thus we maintained the secret through several more performances - each drawing a different audience. Our fame was spreading. Eventually, we had to return to studying for finals, so we were looking for a way to get out of the “BU lights” business without losing face or seeming to wimp out for studying. On about the third or fourth performance, just after we turned out the lights, all hell broke loose on Memorial Drive, a major parkway running by the Baker dorm. A parade of police cars came roaring by with red lights and sirens full blast. We yelled “Jesus, the FCC must be on to us, we gotta shut this all down.” Then we hustled everybody out and shut off our room lights for effect. Once more, we rolled on the floor for 10 minutes! A day or so later, Sherwin took a call from Dean Fassett (Dean of Residence), and the conversation went something like this: Dean Fassett:"I understand you fellows are turning off the BU tower lights." Sherwin: "Uh, yes sir, uh, well not exactly!” Dean Fassett: "Well now I wouldn’t want you to do anything that would get MIT in trouble with our sister institution across the river." Sherwin then explained what we were actually doing, and Dean Fassett chuckled in his inimitable way and wished us
good luck. Two weeks later, after finals but before returning home for the summer, I visited a friend at Harvard. As we were walking down one of the streets towards lunch (Elsie’s, where else?), he casually mentioned, “I hear some MIT guys are turning off the BU tower lights.” I nearly fell off the sidewalk!

Tell us about your professional life and experiences since you graduated from MIT:

After graduate school at Tufts, in Medford, Mass, ( Experimental High Energy Physics, PhD 73), I was chagrined to realize that there were no jobs for physicists, so I went over to Tufts-New England Medical Center, in Boston, and began working in what was then called the Department of Therapeutic Radiology (later renamed “Radiation Oncology” in the same vein that dock workers became “Materiel Handlers”). I worked for a delightful fellow, Dr. Peter Neurath, who was head of the Physics Division (later called the “Medical Physics Division) who was interested in the computer analysis of medical images. Unfortunately, Peter died in 1977 at the age of 53, and in his memory, I turned our little research group into the “Image Analysis Laboratory”, at New England Medical Center, and developed a career in “Biomedical Image Analysis” over the next 20 years. About 1989, the Nynex Corporation (remember them? the successors to the phone company?) approached us with a proposal to develop medical imaging applications that would use their new high-speed networks (“I suggested they use the motto “fiber optics to the bedroom”, but it never gained traction!). I became intrigued, and with the talents of the others in my lab, we developed a medical image “conferencing” program. I tried to interest the Medical Center in spinning off a company, but could not get anywhere. Finally, I left the medical center in 1992 and started a company to develop and market the image conferencing program. Being inexperienced in the medical imaging market, and being way ahead of the curve, we starved for 8 years and folded in the summer of 2000. I have since developed a Java version of the conferencing software, aimed at Education, and have been using it daily in teaching on-line physics and astronomy at Bunker Hill Community College, in Charlestown, MA. The software is similar to “Webex”, but is far less costly to administer, which is necessary for the limited resources in education. However, lately, I have turned to building “apps” for Android phones and tablets, and this has become a major source of creative fun in my retirement years! I may adapt the conferencing software to Android and try to find someone who would like to build a company (I am too old to do another start-up!).

Tell us about yourself and family and interests over the past 50 years:

I was born and raised in Charleston, South Carolina, but I married a girl from Arlington, MA, in 1964. She was a graduate of Simmons, in physics, 1962, went on to BU, then Tufts, and has been teaching physics and astronomy since then, first at Boston State, then Bunker Hill Community College. We have two daughters, and I am pleased to say that in spite of having two physicists as parents, our daughters have pursued careers well outside of science. In fact, it has been a delight to watch them grow into fields that are so different from the ones my wife and I have been involved in. It’s almost like living through another, very different, life. I continue to enjoy photography, and Model trains, two hobbies from childhood. But in about 1995, I re-developed an interest in Antique cars (which I inherited from my father while I was in high school), and now have a 1942 Cadillac that I have restored to “Concourse Quality”. It’s not a particularly rare vehicle, but I enjoy driving it to shows. Incidentally, it rolled off the production line about a month after I did!
Jan Brown

Course: XVIII

Tell us about your recollections of your student years at MIT:

It was hard work but it was worth it. I am now pleased that I could accomplish what I did.

Tell us about your professional life and experiences since you graduated from MIT:

I passed all the actuarial exams within a few years after graduation. The first part of my career as an actuary was with John Hancock Life - until 1992. Since 1993 I have been an actuary with the New York Insurance Department. At that time I moved to Albany. My wife and I have a home just a few miles outside of Albany. I love the area and the much faster commute!

Tell us about yourself and family and interests over the past 50 years:

I keep in shape by getting up early in the morning and jogging most days. I was diagnosed with Non Hodgkins Lymphoma in early 2010 and I am undergoing successful treatment (It is a potentially chronic but treatable form of cancer.) Over the past year I took the online course in Linear Algebra, 18.06. It has great video teaching sessions by Professor Strang. I also bought the text. I found I can use it in my work, in fact, right now I am struggling with a seemingly simple population problem that has complex eigenvalues and eigenvectors!

William Thomas Brydges

Course: II

Tell us about your recollections of your student years at MIT:

MIT years were some of the best of my life - enjoyable and forever valuable in so many ways. My recollection starts with getting on a train in Springfield, IL, and getting off at Back Bay Station (when someone was waiting to meet me at South Station). Amazing to think how much was packed into those four years - course work, activities (mostly The Tech for me), social life, recreation, exploring the Institute (steam engines in Bldg. 3, IBM in Bldg. 26, Space Wars on the PDP-1), exploring Boston (Gardner Museum, the original Regina Pizzeria, Durgin Park, English Room, Red Death diner, Fenway Park and the Garden). As to course work - rereading saved notes and exams over the years - did I really know all that stuff? One off-campus memory: hearing Castro at the Harvard Law School Forum in 1959 when he was on his “victory tour” to the US, having deposed dictator Battista. One of the questions put to him: “We have heard that when some persons were acquitted, you had them tried again”. His answer: “When someone is convicted, they appeal; when they are acquitted, I appeal”. Right then we realized he wasn’t the guy we thought he was.

Tell us about your professional life and experiences since you graduated from MIT:

My MIT education has always opened doors to opportunities and given me the ability and confidence to make the most of them, including recognizing new skills I needed and having the ability to acquire them.
I stayed at MIT for an Sc.D. in Mechanical Engineering (Materials). Since then, my career has been in both technical and business positions in manufacturing companies. Morgan Crucible, London, England - two years doing research on carbon fibers in their early days. Corning Glass, Corning NY and Medfield MA - 17 years, started in the lab, then a variety of technical management, corporate staff and business positions. CTI-Cryogenics, Waltham MA - two years in product development management. Stackpole, Boston and Toronto - eleven years, mostly in Quality management, both corporate and plant positions. Hypertherm, Hanover NH - seven years in Engineering and Quality management. It was especially in the second half of my career that I really found opportunities combining things I could do well with a high level of personal satisfaction and enjoyment - these mostly related to the pace and challenge of manufacturing operations. I retired in 2007.

Tell us about yourself and family and interests over the past 50 years:

My family is a source of great pride. I married Ellen Morse (Simmons 1962) in 1964, and she has been a strength for me as we have shared our lives for these 47 years. We have two sons, Bill and Andrew, and each has a wonderful wife and two children. Amazing the unconditional love grandchildren have for us! Ellen and I have enjoyed our lives wherever we have lived, with the two foreign-living experiences == England and Canada == being especially memorable and greatly expanding our horizons. We have enjoyed travel over the years, mostly in Europe, sometimes just us other times with other couples or groups. Over the years I have enjoyed various interests, two of which have been with me a long time and which are giving me great pleasure in retirement. I have become a very active Sherlockian, one of the many throughout the world who derive pleasure in the footsteps of Sherlock Holmes. Through this I have met fascinating people, learned a great deal about Victorian and Edwardian times, founded a thriving club in Hanover, and have contributed papers to the Sherlockian world. Secondly, after a 30-year gestation period, eight years ago I finally bought a vintage car == in my case, a 1931 Ford Model A, which has added a great deal of practical, hands-on mechanical engineering experience to my rather more theoretical MIT training. All in all, a good life. Thank you, MIT.

Glenn Arthur Buckles

Course: II

Tell us about your recollections of your student years at MIT:

After spending almost all my life in the South or Southwest, I had no knowledge of New England winters. So when it snowed over Thanksgiving weekend, I assumed that I had seen the last of the ground until Spring and would spend the next four months walking in a white landscape. Because the time until our break in mid-December was unseasonably cold, nothing changed that expectation. Returning in January to a melted Boston and seeing the ground again, I adjusted my perspective on New England winters.

The fall semester of my sophomore year, I learned to sail and enjoyed it so much that I skipped one boring course on manufacturing techniques and principles including its three hour laboratory so I could enjoy the waters of the Charles River. Only as Thanksgiving approached did I realize that developing my sailing skills meant I was about to fail the course. Only a lot of studying over the holidays saved me. From that experience came a love of sailing and three pieces that I machined in the one lab I did attend.
Two courses significantly influenced my future. The first was a course on experimental projects we had to perform as a team. Based upon an article on flying saucers, we choose as a topic to experimentally determine the aerodynamics of a Frisbee. The measuring device we designed and built had so much vibration that we could only get one data point. Faced with the need to produce a report and presentation, we went long on theory and did a lot of soft-shoe dancing. These skills would help in my later professional life as a management consultant.

The second was a course during my senior year on digital computers software since it looked like something it would be good to know in the future. (It was at the time that people were still using analog computers. My handheld computer was an analog one.) I discovered that I was a natural born geek which set the direction for my professional life.

Tell us about your professional life and experiences since you graduated from MIT:

After graduation, I entered the United States Air Force and retired 20 years later experienced in R&D management, C4I (Command & Control, Communication, Intelligence), and information systems development and utilization. In particular, I served for nine years on joint staffs and the highest headquarters of Air Force in the Pentagon, the Joint Strategy Planning Staff in Omaha Nebraska, and Headquarters USEUCOM in Stuttgart, Germany . While in the Air Force, I earned a MS in Mathematics from New York University in 1968. After retiring, I returned to school at The Amos Tuck School at Dartmouth earning a MBA with high honors in 1985. For the next 17 years I was a management consultant with Booz Allen & Hamilton, A.T. Kearney, and Thomas Group, focused on industries in which technology, engineering, or manufacturing are the driving functions. My consulting involved strategy, operations, and processes for corporations in the global Fortune 1000 in the aerospace, automotive, electronics, and defense industries in the United States and Europe. In 1989, my wife and I formed Strategy Associates Inc, a broad-based consulting firm with a global perspective. Our firm offers expertise in strategy, process optimization, change management, and executive education. In 2002, I became a founding member of Agilency, a Swiss-based association of professionals specializing in process improvements. Some of the highlights from those 17 years are: • Two years in Stuttgart, Germany consulting with Bosch on process improvement in R&D • One year in Indonesia consulting with IPTN, the state-owned aircraft manufacturer, on building a customer-focused marketing organization • Two years in Europe consulting with Phillips Defense Electronics on strategy, productivity improvement and a post-acquisition merger • Two years as Program Manager of a $35 million USAID Privatization Assistance Program for the former Soviet Union performing nineteen tasks in five republics - Russia, Ukraine, Kazakhstan, Kyrgyzstan, and Moldova: • Many short-term assignments - three to six months mainly in the United States, France, Germany, Netherlands, and United Kingdom

Tell us about yourself and family and interests over the past 50 years:

As men were landing on the moon in 1969, my wife Pam and I were addressing wedding invitations and beginning a life together that continues to this day. Over the more than 42 years we have

• Raised twins who are now men of over 40 and a beautiful daughter, all of whom are happily married and raising our five grandchildren
• Pursued our love of sailing gradually moving from racing small one-design boats into cruising yachts
• Traveled and lived all over the world.

Now that I am semi-retired, most of my time is spent planning visits to the family and vacations from all the things you can do when you do not have to get up in the morning to go to work.
Tell us about yourself and family and interests over the past 50 years:

My life, and health especially, have been really great so far. The above photo was on my last birthday. Still speed skate for fun, as back on our MIT hockey sized outdoor ice rink just north of Kresge Auditorium. Now do that on the new Millenium Park rink in downtown Chicago. Warm weather I’m daily down along Lake Michigan doing all kinds of fun athletic stuff, right where I actually live. Remember Jerry who ran MIT's Sailing Pavilion? And who of you heard my early evening jazz show from our MIT Radio Station in the basement of East Campus!?? However MIT’s best times for me were thanks to the truly great guys of 'our: AEpi Fraternity, at Bay state Road and Sherborn in Boston, on the south bank of the Charles River, regardless of its odor!!

As my friends will recall, I did, and still do, highly enjoy figuring anything and everything out that comes along. Thinking, just trying to make possible sense of whatever is what I still most enjoy. This has, unfortunately made it impossible to specialize that much, like to get any specific degree. After I left MIT in 1960 for financial reasons I went to the University of Illinois, Urbana, IIT in Chicago, University of Chicago, and University of Southern California (briefly). Have been taking non-mathematical courses in modern physics since 1998; every fall and spring at the U. of Chicago. Also, formally and constantly study foreign relations.

I got into foreign relations big time when JFK began running for President in Boston in 1960. Consequently I am very proud that I have been able to produce a 4-hour documentary film that seems 'to explain his death. At least two of the true experts on this were very supportive and Senator Edward Kennedy himself saw it just prior to his death, and had it "archived", apparently in his personal collection which is currently being unpacked to go into the JFK Library in Boston. Or you can request a copy from me.

Not partisan at all, 1971--74 I was able to significantly help President Nixon and Henry Kissinger personally with China, in D.C., mostly. Of course, the problems now are far greater and more interesting, but unfortunately Mr. Obama doesn’t seem to want my help. I can see so many far better ways of doing things, especially with foreign problems. Speaking probably privately is unbelievably better than aggressive solutions. To problems that threaten the wonderful work of the likes of Cern and the Hubble ever even bearing fruit …..

For better or worse, am still single, but with many friends of all ages, probably cause I value true independence too much. Additionally for a long time it seemed obvious that the world’s biggest problem, the ultimate problem beyond all other big human problems is OVERPOPULATION.

Recently, after years of work on it, I did get a patent for a very good solution for high-rise building fires, nothing good before mine. You can see it at www.uspco.gov with my (patent) number 7,984,863 as well as with the WIPO, in Geneva, on their site with #WO2011 133230 27102011. All that is left is to get it
made!
Love to hear from old, pals, calls be great, don't think I can make our reunion,


**Thomas G. Burns**

**Course: XV**

**Tell us about your recollections of your student years at MIT:**

Our class was one of the last to graduate in the "good sixties", when everyone was still optimistic about the future. It was before the assassinations of the Kennedys and ML King. It was before the demonstrations and the upheavals of the late sixties. Before the Great Society and Watergate. We, perhaps, didn't realize it then, but we were in some sense on the cusp of the transition between the greatest generation and the baby boomers.

**Tell us about your professional life and experiences since you graduated from MIT:**

Today, business analysts say that everyone will have seven jobs with different companies in a career. Most of these will, however, be in the same function, just for different employers. I was a forerunner. Although I spent my entire career in one large organization (Chevron Corporation), I had at least 13 entirely different jobs in widely varying functions—ranging all the way from the wellhead to the gas pump, and almost all functions in between. My career incorporated both domestic and international assignments. This is one advantage of a large, progressive organization. About half of my career was spent in corporate economics and planning, although I also worked in refining, petrochemicals, engineering and construction, terminal and tank truck operations, project development, marketing, exploration and production, and environment. I continue consulting in energy, economics, and environmental matters.

**Tell us about yourself and family and interests over the past 50 years:**

I have been married for 48 years and have two sons, (in San Francisco and Lisbon, Portugal) and 5 grandchildren. We lived in Germany for 8 years where our sons were born. Both my wife, Louise, and I have been active in sports for our entire lives. She ran 23 marathons, including 5 Boston Marathons, back in the day when women marathoners were a rarity. I ran 13, including SF, Boston, and NY in one year. Together we won a medal in the couples race up Pikes Peak. We are also avid hikers, cyclists, and cross-country skiers. After graduation, I continued to play basketball, first in NYC for the Downtown Athletic Club, and then in Germany for SV GruenWeiss. I also played rugby with the NY Rugby Football Club and for the Frankfurt 1880 club in Germany.
Tell us about your recollections of your student years at MIT:

I arrived at MIT after following a circuitous route my whole life, including growing up in Mexico (7 years), Cuba (6 years), Germany (1 year) and, finally, the U.S. where I attended high school, my first experience in a U.S. school except for a brief stint in elementary school in Texas. After returning from my year in Germany I ended up as a Junior in high school because of such a difference in curriculum between Germany and the U.S. while my contemporaries had moved on to their Senior class. Astoundingly, MIT admitted me after my Junior year, even though my grades had not been straight A's in high school and after they had pretty well assured me, after a personal interview during a visit to MIT during my Junior year in High School, that I would not be considered for admission to MIT until after I graduated from High School a year later. But, in the Summer of 1958, MIT contacted me to advise me that I would be admitted to the Institute if I completed two basic college level course in chemistry and math that Summer. Having done that, I entered the Freshman class at MIT in the Fall of 1958, still ill-prepared for the experience that awaited me. But, when I got to MIT, I ended up loving and admiring every aspect of the experience, including, and particularly, the friendships I formed with a GREAT bunch of guys at Sigma Phi Epsilon fraternity, friendships that have lasted to this day. Unfortunately, I had difficulty mastering my scholastic experience, ending up joining the Air Force after my Sophomore year, returning to College as part of an Air Force program, ultimately graduating from Arizona State with a B.S. in Math. I had finally found my footing and grown in maturity. Nonetheless, nothing ever matched my wonderful experiences at MIT—a truly remarkable institution which had lasting impact on my life.

Tell us about your professional life and experiences since you graduated from MIT:

After leaving MIT, I enlisted in the U.S. Air Force, where I had an incredible 6-year experience and began my long career in computer technology, initially as an enlisted man ultimately receiving my Commission as an Officer. This was also a memorable experience which opened up great opportunities. After leaving the Air Force in 1966, I worked for Braniff International Airways in Dallas as a Programmer and Systems Analyst. I subsequently went to work for Control Data Corporation, a computer manufacturer based in Minnesota where I worked as Programmer and Project Manager. My stint at Control Data was a rich and rewarding one, laying the foundation for my future endeavors in Management with several small companies, one of which we took public. The first such small firm was led by former Litton Industries managers. In 1974 one of my cohorts and I founded a small company in the communications and networking business. During this period, I spent two years living in India where we were building and selling computers in the local Indian market. In the U.S. we were awarded significant contracts by my old employer, Control Data, as well as by Lockheed Corporation and we were retained by Bank of America in San Francisco in a consulting capacity in the communications area. We also developed industry specific communications networks which we operated as a service. Finally, I ventured out as an independent consultant to firms and individuals in California and later in Texas, focusing on PC issues, databases and networks, an activity I am still pursuing to this day.

Tell us about yourself and family and interests over the past 50 years:

After working at several companies after leaving the Air Force, I moved to California where we had a pretty good sized contingent of MIT Sig-Eps, between Southern and Northern California. This gave us many opportunities to get together for parties and participate in many outings for Wine Tasting parties and other activities. After my father died, I moved go Texas in order to be able o help my mother since
she lived in a rural area and ultimately was no longer able to drive. After a divorce, my sister also moved here. It has been a totally new life for me. After initial culture shock following my move from Los Angeles to China Spring, TX (outside Waco), I learned to love living out in horse (and cow) country. We have large family gatherings at least once a year. This is really the first time I have met many of those relatives. I still get to speak with my old friends from Sig-Ep and get great joy from that, even if I am often not very good at communicating. I always look forward to times when I can get together with old friends from MIT.

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**Juan Jose Calvo de Dios**

Course: XV

Tell us about your recollections of your student years at MIT:

I entered MIT in 1959 as an Electrical Engineering student (course VI). During my sophomore year I decided to switch to course XV with a minor in Electrical Engineering, studying during the summer months of 1960 and 1961 to be able to complete the required courses. I graduated in 1962 with a BSc. degree in Industrial Management and decided to come back and finish my BSc. in Electrical Engineering, which I obtained in June 1963. During my MIT years I was active in many school activities, being President of Club Latino of MIT in 1961, Chairman of the International Student Association in 1962 and member of the Activities Council. I was also Editor of the Catholic Magazine for one year. I cannot forget the Club Latino parties held four or five times each year, at Baker House, where we gathered from all over MIT and other Boston schools to hear the best "Latino" band play music and enjoy free drinks for only $5 per couple ($7 for non-members). Those were the days...! Also, once a year, we had our special night at the Faculty Club, where the most important party of the Club Latino was held. Dean Fassett (Dean of Students) was always present, to "chaperone" the MIT students and guests during these festivities. Last but not least my recollection of participating in a Model United Nations team from MIT, where the school represented the country CUBA, and our delegation-after two days in Washington, D.C.-where the event was held (Mayflower Hotel) decided to defect to the United States, in true fashion of those days (1963).

Tell us about your professional life and experiences since you graduated from MIT:

After graduating from MIT with my second BSc. degree in June 1963, I was hired by IBM as a Systems Engineer to work in their Venezuela subsidiary. There I became a Marketing executive and Branch Manager, during thirteen years. During this time (1974-75) I was assigned two years in Lima, Peru, at the IBM Western Regional Office, as a Marketing Operations Manager, where my frequent travels allowed me to know Colombia, Ecuador, Chile and Bolivia as well. This experience would prove "priceless", after I left IBM in 1976 and later joined a large Venezuelan industrial group to head one of their manufacturing companies as General Manager. This company was the first andean multinational company established in 1973 in Venezuela, with partners from Venezuela (majority), Colombia, Chile and the United States. I have never ceased to travel to these countries during my business career (I am still doing it today). From this position I became General Manager and later President, CEO and Vice Chairman of the largest pulp and paper company in Venezuela (VENEPAL) which had partners from the US (Stoner Container, Georgia Pacific, Champion Papers) the Carvajal Group in Colombia and CMPC in Chile. During these years, I became a corporate director of several industrial and financial companies in Venezuela and I was very active in Trade Associations in the country, where I was President of the Venezuelan Confederation of Industries, and the Pulp and Paper Association of Venezuela (APROPACA).
and Latin America (CICEPLA). I was President of the Asociacion Industrial Latinoamericana- AILA from 2000-2008 and currently its First Counselor. After all these years our company was expropriated by the Venezuelan government (2004) after which time I decided to move to the United States with my family, where I devote my time to Consulting in Financial Planning and as a Consulting Board member. After leaving MIT, I came back in 1976 to take some summer courses in Information Systems, later to become Adjunct Professor for 9 years at Universidad Simon Bolivar in Caracas. I also studied at the Harvard Graduate School of Business, where I attended the Advanced Management Program AMP (1986) and at St. Thomas University in Miami, where I received a Masters of Law degree in International Taxation (LLM) in 2003. Once in the United States I have remained active with the Venezuelan American Chamber of Commerce of the United States, where I am President of its Broward County Chapter, and with Barry University, where I am a member of the Andrea's Business School, Dean's Advisory Board.

Tell us about yourself and family and interests over the past 50 years:

After graduation from MIT in 1963 I married before going to Venezuela, where I have lived for over forty one years. My first marriage ended in divorce, with two wonderful daughters and eight grandchildren. From my current marriage (my second) I have two sons, both college graduates now and working in the United States, where all my siblings now live. Being of Cuban origin, while a student at MIT I had the experience of having my parents move from Cuba into the United States as exiles in 1960, and after forty years, as a Venezuelan citizen, I have repeated this situation due to the existing conditions in the country today. I now live in Pompano Beach with my family. I have been able to contribute to philanthropic organizations in Venezuela, helping promote social development projects for the poor and uneducated, and also by being active in higher education development as board member of a private foundation assisting Universidad Metropolitana in Caracas and as member of this University's Governing Council for several years. A family of five, my wife and three sons, we play golf very often. My children and grandchildren also play soccer, and most are good at sports and academics. I am happy to say that the family has adapted well in our new life in the United States, as citizens or on our way of becoming citizens of our adopted country. I am pleased to say that I am a member (Knight) of the Cuban Association of the Order of Malta in Miami, where we assist with social programs for the poor in South Florida, and also supporting more than sixty dining facilities for the elderly in Cuba, with the cooperation of the local Catholic parish priests in the Island.

Alan G. Cameron

Course: VI

Tell us about your recollections of your student years at MIT:

A lot of study and work, only possible because I was able to decompress every Saturday night through social opportunities at the fraternity. I got involved in VooDoo, which also helped.

Tell us about your professional life and experiences since you graduated from MIT:

After 1962, I remained at MIT for two years and received an MS. From 1964 to 1966 I was on active duty in the Navy. Subsequently I remained in the Naval Reserve for 22 years, retiring as a Commander. As a result of completing 20 years' service, I now receive a small Navy pension, enough to keep me in beer. Also medical benefits, which are excellent. From 1966 to 1972 I was a staff member at the MITRE Corporation in Bedford, MA, where I was involved in a variety of military communications programs, primarily for the Air Force. From 1972 until 1986 I was a staff member at MIT Lincoln Laboratory,
where I continued working in the military communications field (involved with all three services) and also got involved in civil air traffic control programs (for the FAA). I left Lincoln in 1986 to become a division manager at Teledye Brown Engineering, which opened an office at Hanscom Field in Lexington. The office lasted for two years, when loss of a contract forced its closing. I then became a staff scientist at TASC in Reading MA where I remained until I retired in 2004. I was involved in a variety of communications, navigation and radar surveillance programs, for the three services and the FAA. After retirement I continued to consult with the FAA part time until 2011.

Tell us about yourself and family and interests over the past 50 years:

I was married the week after I got my MS in 1964, to Meredith Elliott, who received her BS from Simmons then. We were married for 45 years, had two children, and lived in Carlisle for all but the first two years, when I was on active duty in the Navy. Meredith died in 2009, at which time she was the Medical Records Director at New England Baptist Hospital in Boston. I was active (still am) in Carlisle town government, having served as a selectman, assessor, and convenor and member of many committees. I've long been an avid cyclist, and am currently Carlisle's representative on a regional committee that is overseeing the development of a regional bikepath. My elder daughter is a Yale graduate and received her PhD from Rockefeller University in neurological research. She is now a laboratory director at NIH in Washington, and is married with three children. My younger daughter works in radio, and for several years was an on-air personality at KISS-FM in Boston. She lives nearby, and has a one year old son. I recently reconnected with my first love, whom I met in the 8th grade. We were totally out of touch for 55 years, but have now been together for a year.

Peter Canepa
Course: VIII

Tell us about your recollections of your student years at MIT:

What an amazing experience for a middle class graduate of an average public high school. The daily experience of living with very smart people was probably the most important change in my life. My living group provided me the social support to make my MIT experience very rewarding.

Tell us about your professional life and experiences since you graduated from MIT:

Upon graduation, I followed a simple algorithm, namely take the highest paying job offered to me in California. At that time I wasn't interested in grad school. Growing up in New Jersey, I always wanted to live in California. My first job at Autonetics, working on computers for the Minuteman missile was not all that exciting. After one year I left for what turned out to be one of my most exciting jobs. I was hired by Honeywell to work on a highly classified program for the CIA. We were to build an autonomous inertial guidance system for the A12, the prototype for the SR71, although for more than a year I didn't know what it was for. When the first systems were produced, I worked at the Groom Lake Nevada secret test site flight testing the secret airplane. I would stay up all night designing and programming updates to the automatic flight control system, go to the morning briefing with the test pilot, then sleep for a while. When the test pilot returned, I would go to the debriefing and hear how it performed, and receive requests for changes to the program. Then another cycle of programming all night... Sometimes the pilots didn't return, at least two on my watch. Other interesting jobs: Two years in Italy developing and testing Over
the Horizon Radar to detect Soviet missile launches. Three years at the MIT Draper lab working on Apollo, doing simulations, including how to return the Apollo 13 crew. Took computer sciences courses at MIT while at Draper, then started the MBA program at night at Boston University. After a year of working all day and studying all night, I left Draper to complete my MBA full time. Since I was computer savvy, and at that time very few people in Business School were, I was given a graduate assistantship to develop business simulations. In 1970, I married Shari Schachter, who I met in Italy, but she had grown up in New Jersey not far from me. After graduation, Honeywell hired me back to manage a team of engineers and programmers developing an testing a computerized communications testing system in Germany. Two years of fun in Europe, including the birth of our daughter Kira just before we returned. Honeywell had me on their "talent list" which entitled me to interview anywhere in Honeywell for any job that I might want. I decided to go back to California and moved into marketing management as a step toward general management. ITT Gilfillan, a radar manufacturer, hired me away from Honeywell for another marketing management job. I became Director of International Marketing and traveled the world for a number of years, then was promoted to VP of business development. After 7 years at ITT, became VP Business Development of Litton Applied Technology and then later the same position at Interstate Electronics pioneering GPS solutions. My plan of moving to general management from business development was not working so I quit and started an internet company just before the internet crash. Lost a lot of money and time on this one. Bought into a software company and became its CFO. Retired in 2007, built a new house in Sonoma Wine Country and have a pinot noir vineyard.

Tell us about yourself and family and interests over the past 50 years:

I have been an avid photographer since I was 10 years old. I still take a lot of photographs and do my own printing, now digital. Its not a photograph to me unless it is printed. I am very interested in the human brain, and read everything I can about research in this field. Being a constant reader, I started a non-fiction book club that meets monthly and discusses ideas. My wife Shari had a design firm in Santa Monica for 25 years, sold it in 2006 when we retired. My daughter Kira grew up in the Brentwood section of Los Angeles, and now with a masters in Psychology works for the University of Washington in Seattle. She lives there with her husband of 7 months, Daniel.

Douglas A. Cassell

Course: XVIII

Tell us about your recollections of your student years at MIT:

Chi Phi: a wonderful place to live and study. Fencing Team: learning from Maestro Vitali, meeting Jack Dempsey at his restaurant in NYC when the team was there for a match. Harvard Bridge: Admiral Peary said it was the coldest place on earth in January. I take great pride in crossing it so many, many times. Music Library: studying there, hearing Fantasia para un gentilhombre for the first time. (I once aspired to become a classical guitarist.) Ship Model Exhibit: visiting when things got hectic, to renew grounding in earlier technology. E. O. Thorpe: hearing about “Beat the Dealer” first hand. Norbert Wiener: walking around Building 2, followed by the aroma of a cigar.
Tell us about your professional life and experiences since you graduated from MIT:

Sylvania Electronic Systems: My first assignment after graduation took me to Italy for several months, to Brindisi, with several trips back to States via Florence and Rome. Other projects: Minuteman System Simulators: where my work once required me to invent state machines. (Nobody noticed). Kwajalein Atoll: a chance to see the Pacific sky in 1968 from the middle of the ocean, filled with stars, and where I saw a 400-ton, 150-foot radar dish moved by code that I had written (in assembly language on a 24-bit computer). Computer Guild: my startup, with colleagues from Sylvania. It merged with Control Logic, where we made automated material handling system controllers, then became Inconix, where we made microcomputer-based brake and wheel-slip controllers for mass transit system (such as WMATA). Yes, the theme is moving really large objects with computers. And along the way, I managed to write two textbooks and get a patent. Analogic: after we closed Inconix, an Analogic founder advised me to sign on there. I was told it was the “Marine Corps” of engineering. I am proud that I managed to receive some praise from Bernie Gordon himself. Sherborn Software Systems: I decided to try consulting: real consulting, as in the days of Form 1099s, preparing proposals, doing the work, collecting the money: truly independent consulting. It kept me very busy for eight years. Hewlett Packard: with my two children off to college and my wife busy with her job, it was getting lonesome working from home. I accepted an offer from Microcom, which was acquired by Compaq, which was acquired by Hewlett Packard. After the equivalent of 13 years in that sequence, I retired at the ripe old age of 67.

Tell us about yourself and family and interests over the past 50 years:

Grandchildren: four of them, all super little kids. Unfortunately, two are in Maryland and two are in Florida, but it makes for a good excuse to travel. Their parents are pretty special too. Sailing: forty years of sailing in small sloops and Sunfish; 8 years as Commodore of the Sherborn Yacht Club, plus other offices. Farm Pond Advisory Committee: advisors to the Sherborn Board of Selectmen on the management and preservation of one of the best ponds in New England (clear water: 8 meters visibility). Ten years as chairman. Nova Scotia: a wonderful place, much overlooked. We have been going there almost every year. Town Politics: a modest level of participation in campaign support, behind-the-scenes advice to town officers, support to various causes. (My wife Pat is the leader in this activity, and is pretty good at it if I do say so myself.) Alumni Fencing Meets: shortly after I retired, on a whim I attended the MIT Fencing Team’s Annual Alumni Meet (as an observer: I am too far out of shape for this activity: most of the “alumni” are only a few years out of school). It is terrific! Coach Jarek has done a great job with the team, which is now about four or five times larger (and more successful) than when I was Captain in my senior year. And the dinner afterward at a local Chinese restaurant is a chance to get to know the youngsters on the team: we old timers don’t have many opportunities to meet with undergrads and recent grads.

John D. Cervenka

Course: VI

Tell us about your recollections of your student years at MIT:

MIT is kind of a distant blur to me as I don’t look back much. Some recollections: motorized blackboards in physics, Norbert Weiner with Coke-bottle glasses, Dr. Letvin teaching us how we could create a batch of botulism toxin and spike
the Boston Reservoir (a philosophy course, ironically), drivers on Mass Ave swerving at us student walkers “dusting us off”, the Boston strangler claiming a victim 2 blocks from ΔΤΔ fraternity house, being clueless as to women, having no idea what I was doing or where I was going, many neat frat brothers, some psychopaths.

Tell us about your professional life and experiences since you graduated from MIT:

Accepted a job offer from Litton Data Systems in the San Fernando Valley of Los Angeles. Did circuit design for air traffic control of military planes in Viet Nam. Company put me through grad school at UCLA, got a MS sheepskin. Learned to surf including moonlight surfing, some near-death experiences doing the latter. Finally, at the urging of my physician father, went to med school, University of Minnesota. Trained in general practice, obstetrics and emergency medicine, which I did for 36 years. Since 2007 have been doing mainly office-based primary care as an employee of Mayo Clinic Health System – the main player in southern Minnesota. No plans to retire if health holds up – unless the Feds screw up the medical system for doctors – then it’s La-La Land for me.

Tell us about yourself and family and interests over the past 50 years:

Started dating my future wife after taking her to a Minnesota gopher home coming football game as a med student; she was a student in speech pathology and audiology. Married 1 day after graduation and prior to my internship in St Paul, MN. Eventually moved to New Prague MN and stayed here. Our two daughters are now a dentist and an actuary, both married, five grandchildren. Have a lake cottage in north-central MN; restoring it to the pine, blueberry, natural way the land was before man tried to tame it. We also have lakeshore property on the voyager’s route of the MINN-Canada border, which we are keeping wild and natural. We joined Life time fitness this year; really helps restore disuse muscle atrophy.

Nicolas H. Charney

Course: XXI-B

Tell us about your recollections of your student years at MIT:

I grew up in a scientific flipside of a Gertrude Stein milieu, first at the Institute for Advanced Study in Princeton where my father, Jule Charney (the first Sloan Professor at MIT) began his meteoric career at the intellectual roundtable with the likes of Robert Oppenheimer, Einstein, John Von Neumann and other world-class geniuses. Needless to say, my father who is known today as the “Father of Numerical Weather Forecasting,” and the winner of numerous gold medals (visit the MIT Museum to see them) turned over many times in his grave long before he was actually buried. first when I started the “soft science” Psychology Today Magazine and then “OMG” when I started the non-science (or nonsense) fashion video magazine. He was, however, just a little bit proud (and taken aback) when at a party he met someone, and introduced himself as “Jule Charney” and the person responded, “Oh! You’re Nick Charney’s father”. (That was at the short-lived height of the publicity surrounding the
success of Psychology Today and related CRM enterprises.) My mother, Elinor, also worked at MIT in the “Mechanical Translation” Lab, and the family became good friends with Noam Chomsky. She was finishing up her doctoral dissertation in linguistics and was a beautiful writer. She helped Jule and me all the time with our papers. My professor once wrote at the top of my philosophy term paper comparing Galileo and Newton (a paper which she essentially wrote for me as a birthday present because I had to study for a physics exam) -- “there is hope for you yet”. But lest you think that I didn’t pass my developing writing skills forward, just ask my Newton high school classmate, fellow 50th anniversary MIT classmate, and apartment-mate, Harold Metcalf, if I didn’t teach him to write! Harold (and his lovely wife, Marilyn, whom he wooed and won at our apartment) are still good friends. Harold, (check out his bio) has been named a distinguished teaching professor at Stony Brook where he has publicly thanked me for laboring with him on his prose. He is also the author of many books and just missed receiving the Nobel Prize in physics for his work in lasers. Some other quick remembrances about MIT: Spent the day with Nicholas Negroponte in the early days of the “MIT Media Lab”; always thought of MIT as the best general education I could get anywhere – a science university. Proud I was able to get through in the stressful, post-Sputnik era and still play # 2 on the varsity tennis team; glad women are now almost half of the student body; proud that MIT is extending its coursework to the internet; proud that the Charney family is so embedded in the culture and history of the school; Jule and Elinor would also be proud of how MIT has grown to meet the challenges and needs of a shrinking world. MIT gives us all hope.

Tell us about your professional life and experiences since you graduated from MIT:

After transferring from Princeton High (N.J.) to Newton High School, I entered MIT and majored in pre-med (course XXI). From 1962-1966, I attended the University of Chicago where I bought a large apartment building with profits I made investing in Xerox and ran for president of student government. I received my Ph.D. in the division of biological sciences (biopsychology) in 1966 and moved to La Jolla, California with my mentor, Dr. George Reynolds and childhood friend, Winslow Marston, to start Psychology Today Magazine -- while at the same time joining Reynolds as a research assistant at USCD. As Founder and Editor-in-Chief of Psychology Today, I expanded the enterprise rapidly into CRM, attracting legendary publisher, John J. Veronis, as an equal partner. Together we persuaded famed, business management consultant, Peter F. Drucker, to join CRM’s board and help build our company.

Between 1967-1971, CRM expanded rapidly from 8 people to 250 employees; we blossomed into a major, multimedia enterprise that included the Psychology Today Book Club, Psychology Today Games, Posters, Records (e.g. “Songs of the Humpback Whales” which ushered in the ecology movement), and our first book, the renowned bestseller, “The Psychology of Children’s Art”. Shortly thereafter we started CRM Books for the college introductory text book market where we published the top sellers in psychology, anthropology, sociology and biology (for which author Michal Crichton polished the final draft). The success of CRM Books led quickly to CRM Films, staffed with Emmy Award winners Carole and Bruce Hart (who had just created Sesame Street); we then brought “Sesame Street” to the college film classroom by producing companion educational films to our own textbooks. Dozens of films in psychology, biology and sociology won 108 film awards (see the chapter on CRM Films in Geoff Alexander’s book “Academic Films for the Classroom, a History”, published in 2010).

In 1972, we sold CRM to Boise Cascade for 21.3 million, and Veronis and I bought Saturday Review Magazine from Norton Simon Industries (and Norman Cousins). As the editor of Saturday Review, I transformed the weekly into four Saturday Review monthly magazines on science, the arts, education, and the society – along with four corresponding book clubs. We also published several hundred Saturday Review books including two #1 bestsellers, “Hearts” and “Engine Company # 42”.

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Suffering financial difficulties from too rapid expansion, we sold the magazine back to Norman Cousins, and started Book Digest Magazine in 1973. When that magazine reached one million circulation, it was sold to the Reader’s Digest, and I moved on to the last (and current) chapter of my professional life.

In 1976, I started the world’s first videogazine, Videofashion, along with co-founder, Marlene Cardin and Anne Adami Charney (wife and Managing Editor). Today we are all equal partners and owners of the Videofashion Network. I’ve never had a job and expect this company to be my last entrepreneurial venture. Veronis and I had raised untold millions in venture capital, but we raised none for Videofashion. I became a video pioneer, following the visual excitement I found in creating CRM Films. Video is the new language of our age – and the internet.

I wrote the cover story for Videography Magazine, “Birth of a New Medium: the Videomagazine” in December 1979 – an article in which I coined the concept of “convergence”, predicting that all media would merge into the new printing press called “video”. Time Magazine even trumpeted Videofashion as “the world’s first videogazine”, and the Time-Life video club distributed Videofashion Quarterly as the “World’s first Videomagazine” on a videocassette. In 1987, Videofashion Quarterly became Videofashion Monthly. In 1995, we went “weekly” and appeared on E! Entertainment in the U.S. Then, in 2011, Variety Magazine congratulated “the world’s first videogazine finally becoming Videofashion Daily – 365 half hour “issues” produced every year”.

Now, in celebration of the 35th anniversary of the videogazine’s launch, Videofashion Daily is the cornerstone of the Videofashion Network which contains an additional eleven ongoing program series and is distributed world-wide on all media -- which media, as predicted, have converged. The Videofashion Network (along with its invaluable library of 22,000 hours of unparalleled footage) is now the largest producer and distributor in the world of fashion, beauty, and lifestyle programming. Visit videofashion.com, videofashiondaily.com, and Videofashion’s own channel on YouTube.com/videofashion.

Looking back and moving forward I see myself as an educator and innovator in new media. I lectured at the UCLA Business school; went back to edit Psychology Today in 1984 (getting four Nobel prize winners to contribute to my “second” charter issue); also in 1984 started the video computer club; and, of course, today Videofashion is the largest supplier of fashion video content to schools in the United States.

Now I’m going “back to the future”. Plans are underway to “go full circle”. I plan to take the subject of “psychology” -- now much more advanced and even more relevant than when I started Psychology Today in 1967 -- into the new dynamic world of merged, interactive media. Truly, now is the time for Psychology tomorrow -- today!

Tell us about yourself and family and interests over the past 50 years:

Family (2 children, 2 grandchildren, wife – I love them all, try to spend as much time as I can with them – and, of course, spend full-time with my wife in “life, love, work, and play”); and FRIENDS (most of whom are extensions of work and family). What else is there in life? Retirement -- used in the traditional sense of departing from the past in quest of something else -- means to me that what you were doing in the past was not the right thing in the first place. I love what I do and I just hope and trust that I can fulfill my dreams to the best of my ability -- I still have a way to go!
Tell us about your recollections of your student years at MIT:

There are two things I will always remember: I was invited to an evening event in honor of new women students. I was asked to complete a name tag at the reception desk. I had no problem with the NAME, but was puzzled with the CLASS. After a brief moment, I wrote 1816 for CLASS because 18 represented the Math Department and 16 was the course number for Prof.’s Minsky’s Heuristic Programming class. Since I was only taking one course, this was not a problem. But then I started to wonder what the students would do who were taking a full course load. While I was thinking about this, everyone was looking at my tag and giving me a strange look. In the meantime, I noticed everyone else’s CLASS began with 19 and so I was trying to figure out what Dept was 19. All of a sudden in the middle of dinner, I realized that CLASS meant year of graduation, not the SUBJECT, the student was taking. You cannot imagine how embarrassed I was! I told my husband what happened at the party. He said: "Why didn't you tell me you were that old before we got married?" The second event about my MIT experience was how I became President of the MIT Club of the Mid-Hudson Region. Upon completion of my 3 year international assignment, I returned to New York. One day, Dr. Fried, who was the leader of our region, asked me to call the School to get a copy of the alumni directory. I was told the school only gives the directory to the president of the club and I was asked who the president was. "I do not know" I said. I was then told to find out and have the president of the region call back. I reported the conversation to Dr. Fried and asked him who was the president? I was shocked when I heard him reply: "You." "Me" I said with disbelief. "Yes, you are the president of our club." So that is how I became President of the Mid Hudson Region until I retired from IBM and came to China to help those in need. I believe this is the strangest and cheapest election I have ever heard.

Tell us about your professional life and experiences since you graduated from MIT:

Former Chairperson of the MIT Education Council, Hudson Valley, New York - Former President of the MIT Club, Hudson Valley, New York - Winner of Harold E Lobdell Distinguished Service Award 1993 - Worked for IBM US and China for 24 years

Tell us about yourself and family and interests over the past 50 years:

Once upon a time, my 5 year old granddaughter asked me a question. The conversation went like this: “Grandma, why do you always wear the same dress every day?” “Grandma is poor, and has no money to buy new clothes,” I replied “Why don’t you go to the bank to get money?” she asked. “That is a good suggestion, but you have to put the money in the bank first, before you can withdraw the money later when you need it. Since I do not have money to put in the bank first, I cannot go there to take money out,” “OH!” she murmured. It appeared that she understood. Then I said: “By the way, can you give me some money when you grow up?” She said “NO!” instantly without any hesitation. “Why?” I asked. She said: “Look, Grandma, I am in kindergarten now. After I finish kindergarten, I will go to grade school, then junior high, senior high, college, and then I can find a job to earn money. You will be dead long before.” I was speechless by her quick response and logical thinking process. She will be 7 years old, on March 5, 2012.
Francia Kaye Childers Porter

Course: VIII

Tell us about your recollections of your student years at MIT:

It was interesting being a giraffe - exotic and different. I enjoyed many friendships with people that had wide ranging interests - unlike my experience growing up in the South. I had to work very hard, then I got married and had to work even harder plus work to earn some money. During and after my years at Tech, there were still men I met from Tech, who didn't believe there had been women there as students.

Tell us about your professional life and experiences since you graduated from MIT:

After graduation, I worked at Tech for a year while my husband, Charles Porter ’60, finished his Masters. We went to California to work for GE in nuclear power. I moved over to LRL Mossbauer Group, back to experimental physics. During this time I had a son and a divorce. Now that I was back in physics, I realized I needed more education, so off to UW. Seattle was quite a change from sunny California! With the addition of a daughter and both kids sick from the molds in Seattle, I took a Masters and returned to California to work in the nuclear power industry. As the nuclear industry became stagnant, I switched to fields - microwave radar. I worked for several companies, mostly in Silicon Valley. I liked running small groups and being one of the engineers. I was a systems engineer until I retired in '92.

Tell us about yourself and family and interests over the past 50 years:

Between work and children, it was difficult even to get enough sleep! As the children became older, the things they were interested in were fun - horses, soccer, track. I was a very involved parent with some presence in their schools, career day, classroom activities, field trips... I am very proud of my children. They are successful in their careers, have wonderful children and are in long term marriages. Since I retired early, I needed more interests than my grandkids (6). One of my interests is geology. Sure makes visiting National Parks more interesting! In addition, I looked around for something to do in my community. I volunteer tutor (physics and calculus) at Community colleges near where I live. I really like where I am now - I live in the Sierras at about 5000 ft surrounded by the Stanislaus National Forrest and less than 2 hours from Yosemite or Mono Lake. The Community College here does innovative teaching, which I find very interesting.
Tell us about your recollections of your student years at MIT:

Memories of my student years at Tech are a collage of academic and social images. Academically, Tech was a challenge for me, a public school student from Peabody, MA. Initially, mathematics and physics could be fathomed with concentrated effort and determination. Copious note taking during lectures in the huge 10-250 lecture hall seemed to be the only way to remember the materials presented to the class. Assigned to Section 22 and conferring with fellow classmates like Hank McCarl and Dick Sutton made a difference in my staying current in physics and other freshman courses. I do remember that the most difficult course was a sophomore calculus class (18.03) taught by E. O. Thorpe – the only course I flunked. He went to Las Vegas and was responsible for Vegas changing the Blackjack card game rules. I retook the class the next year with a different instructor and got an "A." As a commuter I spent my “non-class” hours in Walker Memorial for lunches and other MIT special ed courses such as ping-pong, pool/billiards, gin rummy, whist and bridge. I became a very unorthodox card player. In 1959 when the commuters were given a “real” place to “hang out”, I got involved in the social and academic activities of the Non-Resident Students’ Association (NRSA). The most vivid recollections are decorating one of the train cars for the centennial in 1961 and an in-house event around St. Patrick’s Day with the “decorating” of a large rubber tree plant. Chemical Engineering courses were a challenge and with the help and encouragement of classmates Phil Cunningham, Ron Cahill, and Steve Root I managed to survive them, graduate and even go on to Graduate (Practice) School at Tech completed a Master’s Degree in ChE in the fall of 1963. Then on to Rice University where I earned my PhD in ChE with a minor in Nuclear Engineering. Initial assignment to Section 22, I believe, working the physics and other freshman courses with fellow classmates like Hank McCarl and Dick Sutton made study bearable. As a commuter I spent my “nonclass” hours in Walker Memorial for lunches and other MIT special ed courses such as ping-pong, pool/billiards, gin rummy, whist and bridge. I became a very unorthodox card player. In 1959 when the commuters were given a “real” place to “hang out”, I got involved in the social and academic activities. The most vivid recollections are decorating one of the train cars for the centennial in 1961 and an in-house event around St. Patrick’s day with the “decorating” of a large rubber tree plant. Chemical Engineering courses were a challenge and somehow with the help and encouragement of classmates Phil Cunningham, Ron Cahill, and Steve Root I guess I managed to pass and graduate. The Practice School provided some unique student engineering training; I believe one of the projects we had was to study and improve the capacity of a hydrocarbon distillation tower and I think we got the downstream operators a little upset when we flooded the tower trying to find out its capacity. The class was divided into teams of three students and would you believe when I was a team leader I had Dave and Bill Koch as the other two members. My bachelors thesis of capacitive measurement of an ice layer in a solvent solution and taking 8.051 in the summer led me to a doctoral study at Rice University of electronic properties of a catalyst during an oxidation process.

Tell us about your professional life and experiences since you graduated from MIT:

After graduating from MIT with a SM and SB (the MIT equivalent of MS and BS) in Chemical Engineering, I enrolled at Rice University in Houston, Texas and completed PhD studies in Chemical Engineering (solid state electronic bulk and surface effects on a catalytic process.) During the summer of 1964, I worked in the facilities of Texaco research designed and set up an experiment to investigate the thermal in situ refining and release of gas and oils in heavy-oil containing sands (like shale). After completing PhD studies, I was employed in the Fluorochemical Department of E. I. DuPont Company located at the Experimental Station in Wilmington, DE. My duties included operating a mini-works pilot plant to produce a precursor fluorocarbon that was further polymerized in the manufacture of high...
temperature greases. Engineering data was collected to scale-up the process to chemical plant production size. I left DuPont and joined the Chemical Engineering Department of Catholic University of America in Washington, DC, teaching undergraduate and graduate students. I started a fact-finding study to determine if a ChE “practice” school in the nation’s Capital could be of service to the various branches of federal government, but I left to work at Polaroid about the time that the CUA department was redefining the direction of the ChE-Material Science department. In 1971, I joined the Polaroid Corporation, where I held positions as development engineer of paper and polyester substrate coating processes, as assistant laboratory manager for battery research & development, technical quality manager for lithium battery development, quality manager for plastic lens molding, and as assistant program manager for the development of an instant printing plate product. After 27 years with Polaroid, I took an early retirement package and turned to self-employment for fun and fundamentals becoming a quality and processes improvement consultant. During the telecom/dot-com hey-day I was hired as a contract Director of Quality for an electronic chassis development company. Most recently I have been involved with air quality investigations helping commercial and residential clients determine if and/or where air quality problem may exist and offer recommendations for correction of these problems. I have an ongoing consulting relationship with small companies and continue to assist them in overviewing and improving their quality systems. On the teaching side of the coin, I was an adjunct Professor in the School of Management and in the School of Industrial Management at Worcester Polytechnic Institute from 1998 to about 2005. Since 1999 I have been on the faculty of the National Graduate School University instructing undergraduate and graduate courses in Quality Business Management including lean Six Sigma principles, financial systems, and project management. Faculty responsibilities have also included supervising student teams working on their degree projects.

Tell us about yourself and family and interests over the past 50 years:

I met Phyllis at a youth group dance in Brighton in 1958 when I was a senior in high school and she was a junior at Girls’ Latin School in Boston. We both stayed in the Boston area as Phyllis commuted to Simmons College and majored in Chemistry (of all things!) – I was studying Chemical Engineering. We were married in July 1963 as I was finishing a summer course (8.051 — I was one of the few non-physics students in this summer session) and we were off to Houston “touring” the South through Georgia, Alabama, and Mississippi during the height of the 1960’s Civil Rights demonstrations. While I was working on my doctoral studies, Phyl was offered a position in the Chemistry Department as a researcher, editor and proofreader. She enjoyed the work and we often walked to Rice together. Three months after we arrived in Houston, John Kennedy was assassinated in Dallas. When I had completed the academic courses for a PhD, Phyl helped edit and proofread my dissertation, and in 1967 we were moving to Wilmington DE where I spent 3 ½ years at the DuPont Experimental Station. Our daughter, Staci was born in Houston in 1964 and after completing my doctoral studies at Rice, we headed North. Our son, Jeffrey, was born in Salem, MA in 1967. I had just started at DuPont and we were finally all under one roof by April 1967. In 1971 I was hired to teach Chemical Engineering at Catholic University. We moved to Silver Spring MD, a lovely community, but Phyllis, who grew up on the MTA, never quite acclimated to the DC Beltway. We finally put down some solid roots here in Framingham MA (40 years ago!) when I joined Polaroid Corporation in 1972. Our children attended Framingham schools, and attended colleges here in the Boston area; Staci graduated from Brandeis (1986) and Jeffrey from Tufts (1989). Staci (a Governance Program Manager at Omgeo, LLC) married in 1992 and they have two wonderful teenagers in Framingham high school. Both are excellent students who are also very involved in music presentations and Jewish Youth Group activities. After graduation, Jeffrey went to Hebrew Union College in Cincinnati and was ordained as a Rabbi in the Reform Movement; he and Carol were married the same weekend —lots of Kleenex! They have three children ranging in ages from 13 to 5 and live on Long Island. Phyllis and I are the proud grandparents of 5 terrific grandchildren! We try to attend the many school and theatrical & musical events our family is involved in. For many years Phyllis and I sang in Barbershop choruses, but in 2010 we joined the Sudbury Savoyards, an extraordinary Gilbert & Sullivan production group in our area, and we have participated in their recent productions of “HMS Pinafore” and “Ruddigore”--wonderful music and amazingly-talented people who have been raising funds
to combat World Hunger for 51 years! Our second obsession has become family genealogy; we have become veritable detectives as we search the various documents and databases trying to locate the origins and routes our ancestors took in coming to the US from European countries such as Lithuania, Latvia, Ukraine, and Poland. We have been very successful in establishing a “wall full” of relatives (second, third, fourth cousins, etc.) for Phyllis’ father. Now that Phyllis is retired after 37 years as a Framingham Public Librarian, we plan to spend more time enjoying their activities and traveling.

Denis L. Cogswell

Course: VI

Tell us about your recollections of your student years at MIT:
I went from being second in my high school class to having many of my classmates much smarter than I was == I was in a much bigger world. Being a student in the Boston area was fun == sailing on the Charles River, Durgin Park & Beacon Hill Kitchen, Boston Symphony, biking out to Wellesley for a date. MIT taught me how to think, how to approach a problem and work to a solution.

Tell us about your professional life and experiences since you graduated from MIT:
After a Masters in 1963, I moved to Stanford and began a PhD program. That was interrupted with a period in Hawaii (my wife as an Army nurse) and I got into programming and found I loved it. Returning from Hawaii, I found that I would be “over qualified” as a systems programmer with a PhD, so I guess I’m a PhD “dropout”. I worked for Memorex, Southern Pacific, Optimum Systems, Online Business Systems and Amdahl until Fujitsu abandoned the IBM mainframe market. After 15 months unemployed, I then moved to Quality Planning, doing SAS & SQL programming. Now that I’m retired, I’m still working for them as a contractor.

Tell us about yourself and family and interests over the past 50 years:
I married a Stanford nursing student who had joined the US Army for their scholarship program. Upon graduation, her overseas “hardship” tour (it was Vietnam era) was to Hawaii, so I joined her there. The army had no way to recognize the civilian husband of a female officer, so I was a non-entity. We were able to live off-base and had a nice apartment with views of Honolulu and the Pali. Returning to the San Francisco Bay Area, we settled in Palo Alto and soon had two kids. Our daughter went to Cal State Chico and met a nice young man == they now live near Boston and have two boys we love to watch growing up. Our son graduated with distinction from Art Center Pasadena and is a very talented graphics artist in Los Angeles. Upon retiring, we moved to Cape Canaveral, Florida, where we enjoy volunteering and playing World of Warcraft.
**Walter Luke Colby III**

**Course: VI-A**

Tell us about your recollections of your student years at MIT:

My fondest memories are of life at the ΣΑΕ house at 484 Beacon and the lasting friends I made there. I feel fortunate to have lived in the time when we wore jackets and ties for dinner and parties and had big band events like Junior Prom. I enjoyed living in Back Bay and wandering its streets gave me a taste and appreciation for urban life. I'm grateful for an athletic program that let a non-athlete learn a sport I had never even seen before and make the team as I did with freshman lacrosse. Managing freshman and varsity hockey teams gave me more lifelong friends. The phys ed program taught me to swim, sail, play squash and tennis and to live an active life. I'm fortunate to have been surrounded by stellar players in the computer field as I first learned about what was to be my lifelong work. The VI-A program gave me wonderful summers in Boston, a little income to enjoy them, and my first experience with a large corporation. The course VI curriculum was a marvelous structure in itself and a delight to go through with a larger-than-life faculty. Retrospectively I am equally fond of our mandatory grounding in the humanities and my own further ventures into economics and psychology. But the most frequent image to come to mind is not classrooms and labs, but dinner table discussions and social events with my fraternity brothers.

Tell us about your professional life and experiences since you graduated from MIT:

I was intrigued with computers from 6.251 forward. In my first job out of MIT I fell among a small group of brilliant pioneering computer scientists. I joined a software house, not called that then, which I had found in the Yellow Pages. I feel my time there was the equivalent of a graduate computer science program, something to arise much later. After four years of operating system and compiler development and countless core dumps I moved to the commercial side with ITT's computer services business in California, then to a timesharing startup. My next stop was at Scientific Data Systems before and after its acquisition by Xerox. I had wanted to work sometime for an organization using computers rather than making them. I also wanted to live in Europe and to learn something about financial applications. Hence I went to work for Citibank implementing various financial systems in major European cities while living happily in London. After a year in Manhattan with Citibank I left for Digital Equipment Corporation in Massachusetts, working for several decades at headquarters in Maynard and the surrounding area. I remained there through subsequent acquisitions by first Compaq then Hewlett-Packard. I still like large corporations, having found there the chance to do so many different things, work on massively large problems, and develop thousands of working relationships, some of them with truly marvelous people.

Tell us about yourself and family and interests over the past 50 years:

I met my wife Deb while living in London and we married in England in 1975. After London and Manhattan we settled into a far west suburb of Boston and there had a happy small town life with our daughter Alison and son Austin. Our lives were enriched by our several Labradors: Sam, Jack, and Freddie, all of whom visiting friends will remember. As I write this I am loading old home movies onto my computer and am astounded by how much fun we had and what wonderful memories I have of our family life. Over the years much of our travel was family visits to the UK and to Florida so our parents had many happy times with their grandchildren. Interspersed were classic trips to coastal California, the Grand Canyon, New York, Washington DC, Niagara Falls, Montreal, and all of New England. My retirement is in Northampton, where my daughter went to Smith College. I had always wanted to retire to a college town and I'm enjoying a lot of live music and performances in the Berkshires along with all the
libraries of the Five College area. I've summered twice now in Montreal and took in baseball Spring Training in Florida and Arizona for five seasons. Photography continues to be a hobby, for some sixty years now, along with a few others, and I keep discovering new things to learn about and do.

Richard Joseph Conti

Course: VI

Tell us about your recollections of your student years at MIT:

Life at MIT was often an uncomfortable time though with some strikingly positive and formative experiences. The sense of community was pretty meager with learning implicitly a solo experience, particularly when presented with the occasionally inadequate teaching methods of a graduate assistant. Student competitiveness was the norm though I did develop some rewarding relationships among students and particularly with the faculty. Luckily the intellectual life of Cambridge and Boston surpassed the sterile social environment of MIT and in my memory equaled the value of our classroom learning. There was much to be learned about quantum mechanics over steamed clams at Cronin’s in Harvard Square. Tuition and living expenses were often a struggle forcing me to take a variety of jobs (many of them interesting) to survive financially. Surprisingly, I was not able to convince the financial aid office to aid me. Their lack of support has informed my college gift giving which has subsequently gone to schools other than MIT.

Tell us about your professional life and experiences since you graduated from MIT:

Following the bachelors degree in electrical engineering, I pursued graduate work at MIT and Northeastern University. The focus of study and work was in electromagnetic and optical theory. Early on there was a interesting period working on contracts for NASA to develop and measure physiological properties of the Apollo space suit. However, most of my professional contributions occurred at Raytheon Company facilities primarily in New England. My work as an individual technical contributor included the design of optical laser systems, microwave phased array antennas, microwave monolithic circuits, missile seekers, and computer aided design and test techniques. The work led to a number of publications and inventions and to a position of Raytheon Engineering Fellow. I have also been a member of and officer of a various professional associations. More recently I held management positions at Raytheon of increasing responsibility in organizations responsible for the design and production of radars, communication systems, and microwave systems. This work evolved into Program Management assignments for a variety of government and commercial customers often involving significant financial resources. I have since retired.

Tell us about yourself and family and interests over the past 50 years:

I have been married, divorced and remarried to the accomplished and attractive Carolyn May. I have two wonderful children, Jason and Samantha who along with their mates, Nicole and Sean, seem to be really enjoying their lives. My interests have been varied and include gardening, jogging, photography, and cooking. Travel has been a continuing adventure professionally and socially, providing opportunities to see much of the United States and Europe. Then there is the occasional hands-on reconstruction of properties I have acquired. The largest effort has been the re-landscaping of a 100 acre farm in the hills of Southwestern Maine. Time spent there has been an essential counterpoint to life in the urban environs of Boston. We love the city and enjoy subscriptions to the Symphony and membership in several...
museums. But life in the Maine woods offers many subtle and addictive pleasures. Despite the difficulties as an 18 year old in surviving an intensive “trade” school such as MIT, the experience, knowledge and degree have given access to much of what I have enjoyed in life. To this day, wearing my class ring gets me special treatment at my butcher. Is America great or what?

Arthur Roger Cooke

Course: VIII

Tell us about your recollections of your student years at MIT:

For an MIT freshman from Kentucky living at Senior House, the high point of that year was my first ski trip hitchhiking with 2 buddies up through the frozen North country with skis and backpacks. It was a very low-budget trip. To save the 50 cents a night charged by the MIT outing club for use of their cabin, we camped out in the snow. It was, however, quite a thrill to go slipping, sliding and crashing down the icy New Hampshire slopes. Although we did a lot more falling than skiing, this trip initiated a lifelong love for skiing which I still pursue to this day. I still remember hitchhiking back in subzero weather witnessing the Northern Lights for the first time. I also participated in several hacks, one of which even made it into the school newspaper. Late one night, while walking through the main building with a couple of friends, we came upon a toilet sitting lonely and unattached in the hall. Inspiration struck. We took the toilet and after a somewhat laborious climbing adventure deposited it on the top of the great dome. The next week The Tech published a picture of the toilet perched on the dome with seats raised as if to address a crowd below. During my sophomore year I pledged Sigma Alpha Epsilon fraternity, where I made a number of very good friends and enjoyed some truly awesome parties.

Tell us about your professional life and experiences since you graduated from MIT:

Following graduation from MIT I attended graduate school in physics at the University of Illinois. During my 2nd year there, I made a major career decision to switch into the field of biological sciences while driving through the mountains of northern Mexico following an attempt to climb Mount Orizaba. I obtained a degree in physics from Illinois and chose a postdoc in a biological lab to broaden my background. Thus it was that I arrived at the University of California in San Francisco in 1968 to study skeletal muscle, a subject I had no real interest in at the time, other than it was biological. During the next 44 years I have worked on the biophysics of muscle contraction, and other proteins that move things around in cells, published many papers and had a rewarding academic career. I am still at the University of California now working as a professor emeritus and still studying skeletal muscle.

Tell us about yourself and family and interests over the past 50 years:

Family life is full. My wife Greta and I live in San Francisco; I have 2 children - Virginia, who graduated from Clark University and works for an NGO getting homeless people off the streets of San Francisco. In her spare time she’s busy with the Occupy San Francisco movement trying to eliminate the economic inequalities that exacerbate the homeless problem. My son Robin is graduating in June from Seattle University and planning to become a teacher. Greta also has 2 children, one in the Bay Area and another who lives in Sydney with our granddaughter. Needless to say, we travel there frequently. A sailing class at MIT helped to initiate a lifelong interest in the sport. For more than 25 years I’ve had an old but sturdy 32’ sailboat which we take out for day trips on the Bay, or longer trips along the coast or into the Delta.
region. My mountain climbing career was initiated in the caves and cliff faces of Kentucky and later nurtured by exploits climbing the walls of MIT buildings during the night. When I arrived in California I continued climbing in the Sierras and Yosemite, but now confine my mountaineering exploits to hiking.

Philip D. Cunningham

Course: X

Tell us about your recollections of your student years at MIT:

Four years of classes spread over five years at MIT were both very tough and at the same time great. As a commuting student the 515 Club and the NRSA became home for me. It was a way of belonging and a way to study and party. The house at 318 was indeed a home for many of us. Being elected president was a true honor and a great time. I will always remember it and the academic help I received from other NRSA members. Our intramural sports successes were all memorable.

Tell us about your professional life and experiences since you graduated from MIT:

I started with DuPont as a Development Chemist in their Coated Fabrics plant in Newburg NY. This operation was bought by Stauffer Chemical Co. I was transferred to their commercial wall covering coated fabrics plant in South Plainfield, NJ as Plant Chemist. I then became Plant Manager of this operation. Stauffer then made me Business Manager at corporate headquarters in Westport, CT of Wall Coverings and we entered the residential market place with two additional plants manufacturing our products along with 30 distributors based in the USA and Canada. After successfully establishing this business venture, Stauffer asked me to manage their PVC polymers operation as Business Manager in Delaware City DL. A successful turnaround of this business prepared it for divestiture and I returned to corporate headquarters as Marketing Manager for the Specialty Chemicals Division. I left Stauffer to become Vice President and General Manager of Wallpapers Inc. This was a wall covering Distribution Company covering fourteen western states with seven warehouses and six design studios headquartered in Oakland, CA. This was a challenging and fascinating experience. As a successful and operational entity its management activity was consolidated into the acquiring company based company in FL. I and my family remained on the west coast and took a position as Plant Manager for Hexcel Corporation of their Coated Fabrics Prepreg plant in Livermore, CA. These materials were used primarily in the aerospace industry to make composite parts. After ten very enjoyable years, Hexcel declared bankruptcy and I moved on. I joined Bio-Rad as Plant Manager of their Chemical Plant in Richmond, CA. I moved on to become Vice President of Operations for American Materials & Technology heading their Culver City Composites Prepreg manufacturing operation. This operation served the same the same aerospace customers as the Hexcel Livermore operation did. When Cytec bought the Culver City operation I moved to McMinnville, OR to direct the sales, marketing, and manufacturing operation of Meggitt Polymers & Composites as General Manager. An aerospace supply company with a similar customer base as I had served in my prior positions. I retired in 2000 and have enjoyed life to the fullest since then.

Tell us about yourself and family and interests over the past 50 years:

I married my wife Sally in 1963. We have two daughters, Cathy and Jennifer. Both are married. Cathy blessed us with two grandchildren, Melissa and Christopher. Melissa has now made Sally and I great grand parents with two beautiful daughters, Madison and Kaysee. We have had the opportunity to move many times due to position changes and never did we expect to live on the west coast and in Oregon. We
love it here in McMinnville in the Willamette Valley wine country and the home of the Spruce Goose. Within easy driving time there is the ocean, the mountains, and all the benefits of a major city in Portland.

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R. Bruce Cuthbertson

Course: II

My life, now our life, has been a blast: a wonderful adventure with twists, turns and amazing surprises. I have been able to travel the world and met my wife in Nicaragua where our two beautiful children were born. We survived an earthquake, a revolution, the confiscation of our home and businesses, a hurricane that flattened Miami and, several years ago, I survived a broken neck. Aside from those temporary setbacks many, many wonderful things have happened to us. Our children have grown into responsible adults (Siu Mei-Wellesley 1996, Thunderbird 2001, Barry 2009 and Robert-Duke 2000). We loved living in Nicaragua and Honduras and now in Florida, where we moved in 1980 after the confiscation of our assets in Nicaragua. I became involved in new business ventures (arbitrator, mediator, real estate investor, international business consultant, and bank director) and Martha in Montessori teaching. More recently, we bought an island off the Honduran coast with its own coral reef. We have loved the adventure, even the setbacks.

I feel I have been blessed by Divine Providence in many, many ways: good health, a great family, good luck, opportunities to do many things and meet wonderful people all over the world. Not the least of my blessings was the opportunity to go to MIT. I am still not clear why MIT picked me (or I it), but I am exceedingly grateful it happened.

Please remember that I only spent two years at MIT, coming from Amherst at the beginning of junior year. Some may not know that I did not receive my Amherst diploma until 1962 when I finished at MIT. What an opportunity to learn from such talented people: the language skills at Amherst and the scientific brainpower at MIT! I then went on to Harvard Business School. During that time I had the good fortune to work in a textile mill in India and travel around the world.

After graduating from Harvard and completing my military service, I went to Managua, Nicaragua to work in construction, not something my parents really approved of, although they were too civilized to comment.

I met Martha in October of 1965. Showing the good sense that has always characterized her, she refused to go out with me. Two years later she called me and invited me to a reception at the Presidential Palace. The rest is history. We were married in 1971 in an 18th century church in the small Indian village of Nindiri, Nicaragua.

In 1972, an earthquake struck Managua, killing 10,000 people and leaving the city in ruins. Here is a view of the city from my office building three days after the earthquake. We immediately went to work to rebuild our lives, the city and our businesses.

Siu Mei was born in 1974 and Robert Renton in 1978. During that time we built our dream home in Las Nubes (the Clouds), located on a cliff 3,000 feet above the heat of Managua, with an amazing 180-degree view of the Pacific Ocean, of the line of volcanoes to the northwest and of the city itself.

In 1979 the Sandinistas took over Nicaragua. As president of the Nicaraguan-American Chamber of Commerce, I testified several times before the U.S. Congress on Nicaragua. The Sandinistas did not like
my testimony and suggested it would be “healthier” for me to leave to country. I did, and they proceeded to seize our business assets. Two years later an army patrol arrived at our home and occupied it. Later, the head of the Sandinista Army moved in, and the government formally confiscated it. Ironically, as a result, we were able to create political conditions where the General decided he wanted to “buy” the house, so we came out quite well in the end, 11 years later.

After the Sandinista takeover of Nicaragua, we moved to Honduras for a year and then to Miami to start again. We bought a home in Key Biscayne, built new businesses and have lived here for the last 30 years. During that time I have been able to travel to Latin America and many other parts of the world on business, and Martha has been able to accompany me many times. I even had a chance to go to the Solomon Islands and the Cape Verde Islands on consulting assignments. How many people know where Guadalcanal, Honiara and Praia are, and have been there? In recent years I have enjoyed arbitrating large, complex, international commercial and construction disputes and recently came back from a two-week arbitration in St. Maarten.

We have been fortunate to travel and have visited all 7 continents. In 2007 we visited Wrangel Island, an island in the Chukchi Sea, north of Siberia with a group from MIT to discuss climate change. Several years ago Martha and I, with some friends, bought an island off the Honduran coast as a vacation retreat. We were fortunate to be able to spend time there this summer. Here is a picture of the island and of us during our vacation there this year.

Our children, now grown, are pursuing their interests with Siu Mei a Montessori teacher in Miami (like her mother) and Robert managing Duck Brand Duct Tape in Cleveland. In our last visit to Cleveland, the whole family went to hear the Cleveland Symphony Orchestra.

What new adventure now? We are open to suggestions.

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**Scott Lee Danielson**

**Course: IV**

**Tell us about your recollections of your student years at MIT:**

Loved every minute of it. I transferred in in the middle of the 4th year. I had a great roomie in Bernie Slosberg (I've lost touch, so if you read this, please send a note with contacts), who helped acclimate me to the East Coast and New England culture. Classes were challenging and in my 5th year I had a great architecture teacher, Imre Halasz. I had started Architecture at Stanford and transferred after I sensed I was not getting the discipline in problem solving that I should...Imre solved that in a hurry!! Highlights were my friendship with fellow architect Denis Jesson (same request, Denis, if you read this please send me a note, contacts, and how Marge and your children are doing). Denis and I collaborated on a design assignment where we developed a New Town concept that was a megalstructure with an internal core of circulation services and parking, with terraces of housing and retail around the perimeter. Imre was amazed at our concept and the visiting critics were also generous in their reactions and comments - quite a wonderful way to start my 5th year. The other invaluable experience was singing in the MIT Choral Society. Klaus and Ollie Liepmann became dear friends, as did Jim and Amy Townsend "Adult members" of the chorus, and Dwight and Mayvis Baumann (Dwight was senior professor in ME and become my mentor when I returned for a Masters degree in '66.....but that's another story. The Society toured Europe on a concert tour after graduating in '62 and that was a fabulous
experience - it was my first trip and I sketched and photographed like mad....and learned that wine was indeed nectar of the Gods!!

Tell us about your professional life and experiences since you graduated from MIT:

After the trip to Europe, I returned to Boston, packed-up and set off to Madison WI, where I was assigned to an Air Defense Command in a Civil Engineering Division. Incredibly fortunate not only to be working reviewing drawings for renovations and new Structures within the Division, but also to have two of the best managers I've ever worked for (Ed Weeks, civilian, and a COL.____ my apologies for a faulty memory). I was on night duty the evening of the Cuban Missile Crises and had a front row seat in the Command Center, notifying senior officers on base to come in, then to watch and read the incredible mobilization that went on to position strike and defense forces on our southern shores. After the military, I returned to MIT for a Masters, took two years so I could paint the second year under the guidance of Juri Kepes, a wonderfully gifted teacher and painter. In architecture I ended up being the sole architect in a multidisciplinary course that unexpectedly turned out to define my professional career. Dwight Bauman in the years while I was in the AF had built a strong program in multi-disciplinary design, picking a engineering challenge, and then having students listen to specialists in the field, from both the academic and industrial world and work on innovative solutions. It involved long hours of lectures and having to work in teams to develop solutions. The year I came back, the theme was "The Urban Transportation Problem" and I signed up for that....and the rest is history: The 8 other architecture student's in Imre's section, dropped out of the m/d class and set up their own programs, abandoning the learning opportunity of listening to leading engineers, planners and designers from around the world. I stayed in the class and built my Master's Thesis around the information and technologies I learned from the course. I graduated in '77 with the Master's, joined John Carl Warnecke Architects in San Francisco, became an Associate and Sr Designer on the United Terminal and Central Garage of the SF Airport, including the conceptual plan for bring BART to the airport and used of small people movers to reach the radial arms of the design. Various projects and 5 years later, I joined Goodwin B. Steinberg Architects and worked on high end residential projects, then spent 8 months in Italy working with a friend from Warnecke's that had become head of airport planning for Alitalia. I collaborated with him on developing a concept he had for an integrated people mover system for airports that integrated maintenance, storage and employee parking within a transit loop on the Airside of the Terminal. When not helping Hans on the booklet, I was oil painting in a 17th Century mill in the hills an hour north of Rome. After 8 months in a Thoreau-like environment (no running water, no electric power, no gas for cooking or heating, and a beautiful silence) I decided I would get back to California and architecture. There was 40% unemployment for architects at the time, so after several interviews and visited the head of the Parsons Brinckerhoff office, for whom I had done some urban design sketches and renderings while with Warnecke. We had a great visit and he offered me a "test-it " job: come work for PB, set up an architectural group, and see if you like it. Thirty-seven years later, I'm still with PB, a Vice President, on the Board of Directors of the domestic company, and Principal Professional Associate for Transit Architecture: that MIT M/D course proving to be the seed for a rewarding career: developed concepts or final designs for over 800 transit stations, bridges, tunnels, airports, etc. and traveled over 2.7 million air miles to half the globe to serve clients and ultimately millions of travelers whose journeys will safer, more environmentally sound both for energy and for enhancing the natural and urban landscape. A favorite phrase for my "mission": To turn Civic Structures into Civil Sculpture. Most important event: when I got back from Italy, I returned to attending the excellent Oregon Shakespeare Festival. The second year back I went up, with friends, but had to turn in a set of tickets. As I walked away I overheard two women talking and saying there were no tickets for one of the plays. I turned around and said I had just turned in a set of tickets that they could probably get. On the next day, my friends and I were seated and then one of the women from the day before came in and sat down. Plot thickens: we laugh at the same antics, love classical music and jazz, love ballet and football....and she taught near where I grew up in San Mateo. After our first date I knew I had found a soul mate. I wrote her later: "No Ship was Christened Half so Fair As this Strong Vessel of my Passion that You with Gentle Kisses Launched"
Tell us about yourself and family and interests over the past 50 years:

I've covered the good stuff above!!! But to fill in about the family. Alexis and I have been married 35 years. After 17 years in a beautiful Bay Area Shingle house, we needed more space: storage for Alexis' antique and estate sale business, and a studio for me when I retire (I hear laughing in the background). We designed and built our house 16 years ago - where did the time fly?, we have no children, but do have two beautiful cats. We love small dinners with friends, attending the Symphony, and less often Ballet and Opera, going to Museums (too little last few years), and listening to live jazz (trios), and Big Band concerts in smaller venues. Drives along the Coast, walks in the neighborhood, and in the mountains (on too rare occasions). We're members of The Nature Conservancy, World Wildlife Fund, Sierra Club, Monterey Aquarium, and Life members of The SF Science Museum, the SF Zoo, the Hudson House Foundation (dedicated to early 20th C. woman painter Grace Hudson who catalogued the Pomo Indians with her work).

Jon Archel Davis

Course: VI

Tell us about your recollections of your student years at MIT:

A great education. Good memories of Phi Delta Theta fraternity life, glove fights, and riots. I really enjoyed my undergraduate and graduate stay (masters and PhD). Good memories of going to Durgan Park restaurant. I enjoyed the trips to Wellesley, where I met my wife Heather. The BU girls' dorm next door provided some interesting views. The weather was too cold, and I had to relearn each year how to walk on ice. The Hayden library obeys Fermi-Dirac statistics - the lowest energy states are occupied first, meaning that there was usually plenty of room upstairs. My master's thesis was entitled the Forward Driven Varactor Frequency Doubler, and the PhD thesis was Computer Models of the Beam-Plasma Interaction, under Louis Smullin and then Abe Bers. Heather and I lived in Westgate. I had an NSF Fellowship.

Tell us about your professional life and experiences since you graduated from MIT:

After the PhD, I went into my father's underground telephone construction business in Jacksonville, FL from 1965 to 1975. We liquidated the company during the Great Recession of 1974-1975. I then worked for Hughes Aircraft Company in Torrance, CA as an engineer, project manager and senior scientist. We built traveling wave tubes (TWTs.) I still occasionally consult there for L-3, Hughes's successor (after GM and Boeing.) TWTs are now used mostly for the final amplifiers for Direct TV type synchronous satellites. TWTs are about twice as efficient as solid state devices, and also more durable. They used to be used in fighter planes like the F-14 and F15. I did a lot of computer programming, design work and trouble shooting.

Tell us about yourself and family and interests over the past 50 years:

I was born in Jacksonville, FL on January 12, 1941, and grew up there, attending Robert E. Lee High School, where I got a National Merit Scholarship and ran track. I married the former Heather Shilling of Ashland, Ohio in June, 1963. We have three children: Stephen, a computer scientist living in N. Andover, MA with his wife Mei and their two children Brian(15) and Kathryn (12); Neil, a combustion/aerospace (mechanical) engineerl, lives 15 minutes from us in Palos Verdes with his wife...
Donald Meredith Dible

Course: VI

Tell us about your recollections of your student years at MIT:

I was an Air Force veteran and benefitted from the G.I. Bill which made it financially possible for me to attend MIT. My first wife and I lived on Commonwealth Avenue in Allston during the four years I was an undergraduate. (While in Boston, my wife earned a Masters in Library Science from Simmons.) Weather permitting, I commuted by bicycle, traversing the BU Bridge twice daily. On the morning of my first class, humanities, the teacher didn't make an appearance until the bell rang announcing the start of class. Before the class convened, I noticed that every student took a seat and said nothing. After about a dozen of us were present, a new student entered the room, made his way to the seats next to the window, and proceeded to shake the hand of every newbie. "Hi, I'm Max Snodderly from Texas," he said. Of course, as my fellow students know, Max went on to become our class president. Today, my only child is named Max. Another classmate I remember is Modesto Maidique who went on to become president of Florida International University. When my first freshman engineering class convened, the professor announced that the group was too large and we students were dismissed. The next day, there was a bulletin board announcement breaking the class into two groups. I really enjoyed the close contact with faculty made possible by small class size. My freshman faculty adviser was Amar Bose, the man who went on to found Bose Corporation. I loved the freshman physics demonstrations in the large lecture hall. Prof. Ernie Giggleman's sophomore electrical engineering lectures were a hoot! I loved my lab classes and gave my undergraduate thesis, "Small Signal Parameters of Microwave Silicon Diodes," my all. My thesis advisor informed me that, had I submitted that thesis for an MIT master’s degree, he would still have given it the A+ I was awarded. (I was not required to write a thesis to secure my MSEE from Stanford!) I bought every Oscar Brand LP I could find at The Coop including "Bawdy Songs and Backroom Ballads." My wife and I regularly attended MIT-sponsored art movie screenings including films by Ingmar Bergman and Jean Cocteau. I took advantage of the Co-op program and spent two semesters working for IBM in Poughkeepsie, NY.

Tell us about your professional life and experiences since you graduated from MIT:

After graduation from MIT, I moved to Palo Alto in preparation for work on my MSEE at Stanford where I took a summer job in one of the labs. A year later, I accepted a full-time job at Eitel-McCullough where I spent 18 months designing microwave traveling wave tube amplifiers. Next, I took a job at Huggins Laboratories designing microwave circulators and isolators. After six months, I moved on to Melabs (Microwave Electronics Laboratories), a Huggins competitor. By the end of the next five years, I had achieved the concurrent positions of Chief Engineer and National Sales Manager for this 450-employee company. After Melabs was acquired by SCM, a NYSE conglomerate that also owned Durkee Foods and Glidden Paint, the company founders all resigned, new senior administrative personnel were brought in,
and the company began a downward spiral ultimately resulting in liquidation. As I considered my next career move, I found the aerospace industry in a downward slump. It was at this point I changed careers and commenced work on my first book, “Up Your OWN Organization! A Handbook for Entrepreneurs' with an introduction by Robert Townsend, former AVIS Chairman and author of the #1 NYT bestseller, "Up the Organization." Inventor Bill Lear did my foreword. Stanford, the Wharton School, and more than 150 other colleges and universities adopted the book as a text or course reference. I sold my publishing company small business book copyrights to Prentice Hall in the early 80s. My work as an author-publisher led to another career as a seminar and convention speaker. This led to the founding of Dible Learning Systems, a national seminar producer with a full-time staff of 120 and a stable of 75 contract speakers. DLS clients included Texas Tech and Clemson University. Subsequently, I co-founded the ProjectWorld conference where I served as president and COO until the company was licensed to IBM. After that, I resumed my writing career. To date, I've produced more than 60 books including “Chicken Soup for the Dental Soul.” I am currently working on an anthology for a major charity.

Tell us about yourself and family and interests over the past 50 years:

Soon after my first wife and I moved to Palo Alto so I could attend Stanford, she secured employment with the Stanford University Libraries (from which she is now retired). It was at about this time that Betty Freidan's book, "The Feminine Mystique" was published. My wife and I did our best to deal with her struggle over whether she could enjoy a fulfilling career while simultaneously being a mother. Ultimately, I filed for divorce so that I could remarry and have children. My second wife, Alice, had enormous difficulty with her pregnancies. Following a series of miscarriages, she delivered our first child, a preemie who lived 14 hours. Nine years into the marriage, we had a son who, although a preemie, survived and is healthy. Our third child, also a preemie, lived for three months before succumbing to SIDS. During our marriage, Alice, Max, and I enjoyed skiing (Aspen in the winter) and snorkeling (Maui in the summer). For fourteen years, our family was entertained by two large poodles. For all but one year since leaving Massachusetts, I have lived in California. Since my years at MIT, I have been a regular blood donor and am an unofficial member of the "Multi-gallon Club." In April 2010, Alice passed away due to Stage IV Inflammatory Breast Cancer. At the time she died, we had been married 42 years. A widower, I am currently single.

John M. Dobson

Course: XXI

Tell us about your recollections of your student years at MIT:

Like so many of my classmates, I started out majoring in physics. By the middle of my junior year, however, I had concluded that I didn’t want to spend the rest of my life imagining friction-less planes, so I switched to Course 21 with a joint major in physics and history. The most influential prof I had was Alfred D. Chandler whose courses in American economic history convinced me I had made a good choice. Also in the middle of my junior year, I began dating a Wellesley girl, Cindy Davis. When she transferred to the University of Wisconsin the next year, I visited her and decided she had also made a good choice, so I parlayed my MIT humanities degree into admission to Wisconsin’s graduate program in American History.
Tell us about your professional life and experiences since you graduated from MIT:

I stayed at Wisconsin for four years during which time I married Cindy and earned a master’s and a Ph.D. in American History. We moved to California for a year to teach at what is now California State University at Chico. But I had passed the foreign service exam along the way, and we spent the next year and a half in Washington becoming thoroughly disillusioned with the federal bureaucracy. In the fall of 1968, I accepted a one-year position at Iowa State University which morphed into a thirty-year career as a history prof. I went up through the ranks, published several books and especially enjoyed teaching. In 1979-80, I was the Fulbright Senior Lecturer at University College in Dublin Ireland and also taught as a visiting faculty member at the University of Maryland. In the late 1980s, my interest in administration led to an appointment as Associate Dean of the Graduate College and Associate Vice Provost for Research. My MIT training proved vital in that role as I interacted with scientists and engineers on a daily basis, served as the university liaison with the US Energy Department’s Ames Laboratory, and even ended up running the ISU Research Park for a few years. In 1998 I became interim dean of the College of Liberal Arts and Sciences which prepared me for moving to Oklahoma State University as dean of its College of Arts and Sciences. Here again, my MIT experience was crucial in helping me understand and support the many physical and social scientists in my college of 24 departments. I had been a visiting professor at the University of Glasgow in 1996, and they invited me back for another term in 2004 so I stepped down as dean to take advantage of that opportunity and an intriguing book contract. Two years later I retired from teaching but managed to publish two more books before retiring fully. We moved back to my home state of New Mexico in 2006 and have greatly enjoyed participating in Santa Fe’s vibrant arts and intellectual community.

Tell us about yourself and family and interests over the past 50 years:

Cindy and I will be celebrating our fiftieth anniversary next year. She worked as a university librarian and, later, as a professor of sociology. Our two sons grew up in the sheltered community of Ames, Iowa. The older one, David, spurned MIT to attend Harvard and went on to earn his doctorate in geology at the University of Michigan. He currently teaches at Guilford College in Greensboro, North Carolina, where he lives with his wife and two children. Our second son, Dan, spurned both MIT and Harvard in favor of Princeton. He earned his degree in computer science and then completed a doctorate in computer engineering at Northwestern University. After working in several smaller start-ups, he recently accepted a position at Google. He lives with his wife and daughter in the heart of Silicon Valley. We have always enjoyed traveling and, for the last few years, I have served as a faculty lecturer on several MIT Alumni Trips. We have thoroughly enjoyed touring with MIT graduates and hope to continue to take advantage of the program’s many wonderful opportunities.

George S. Dotson

Course: II

Tell us about your recollections of your student years at MIT:

Fifty years after graduation from MIT, my principal thought is to give thanks for the support from the institution and many individuals. I left a small town in Oklahoma with a graduating senior class of 140. The public school system had given me the best it had, but it did not even hint at the traffic system I was about to enter. From the first moment, I experienced the shock of classmates that had achieved advanced standing in the core subjects: Chemistry, Physics and Calculus. I felt like a blind man trying to navigate a busy traffic corner without assistance. I was smart enough to seek help, and I am sure my eyes gave me away with a bit of a dazed look. I asked for appointments with my core subject instructors. I recall
my chemistry instructor saying to me, “George, you got in, and you can get out. Now let’s get started.” That reassurance has been a touchstone throughout my life. My calculus section instructor was George B. Thomas, The Man! The Book! He gave me an hour every week for the last 2/3rds of the first fall. He was kind and patient. These men were the face of MIT, the institution and the learning experience that endures through the years. My living group, Lambda Chi Alpha or LXA, was the safety net that was always there. The chores, hazing and little nuisances were nothing. There was always the support of academic prowess, the support of rules and structure, social activity and the comfort of belonging to a group you liked. Some house members were born teachers, and a few moments of interrupting their thoughts could pay big dividends in making breakthroughs. I was polite and had social graces, but the House strengthened and polished them. I had my Oklahoma Levis, but I enjoyed wearing khakis, white shirt, challis tie and a sport coat to class. I hope it improved my understanding. I was not alone, as most of the House and students were neat as well. The New England brothers were always generous in inviting us to their homes over holidays or weekends. It was a cultural exchange for us. LXA gave us a lively social opportunity. Admittedly, it was another world with another paradigm for expectations. I remember an upperclassman saying to me, you can always drink here. It is between you and your father. We had our moments after parties, but our fathers had been pretty clear about how their sons must act. And the girls, oh my goodness! It was an obligation taken on by every older girl to make sure the fellows without dates got one. I was a verrrrry slow starter, and I met Phyllis on a fixed-up blind date by another girl at the start of my sophomore year. We dated four years, got pinned, engaged and married, and are happily married after 48 years and three children. The girl fixing us up knew her business. I was on the crew for four years. I didn’t have the muscle mass to do much, and I became a coxswain. We had some very good years, but the wins for me were my chums from the boat and boathouse and Jack Frailey. The boathouse was our home away from MIT, and all of us were friends throughout the four years. Jack was a good role model for what life could be. Jack was a successful businessman who made time for the MIT crew, and each of us caught a glimpse of what we might be if we worked hard. I still remember many lessons from Jack’s tutelage, one in particular. We had just gotten our first term marks and were meeting at the boathouse prior to going onto the water for the first spring row. Someone said, “Where is Bill?” The quiet answer from the back was, “He didn’t make his grades.” “Al?” “He didn’t make them either.” There was an awkward silence, and Jack said, “Let’s have a moment of silence. We will miss them. But, fellows, make no mistake about the stakes you are playing for. OK, let’s try these boat line-ups to begin a great season.” And, it was a great season in beating Harvard for the Compton Cup, the first time in 29 years. Jack was not insensitive. He was telling us, “There will be headwinds, but stay focused on the prize.’ That and other lessons were Jack’s gifts to us. Being an MIT alumnus has always given me great satisfaction. The experience at the Institute opened up possibilities I likely would not have had. The experience toughened me, and I was aware of that at the time. I treasure the friendships that have strengthened over the years: My LXA pledge class; the LXA House of my time; the Crew; and, the MIT Administration. Some of us travel long distances to stay current with our life-long friends from the MIT experience.

Tell us about yourself and family and interests over the past 50 years:

Phyllis and I met at the first House party in the fall of ’59. We dated steadily thereafter and married in Melrose, MA in August 1963. Phyllis had completed her BS and RN at Simmons, and I was working in heavy construction for Perini Corp. as I awaited my first assignment as a new Lieutenant in the Army. Newly married, I was sure to be assigned to Korea on single status, so I took a Regular Army commission ensuring we would go to Germany for three years. After armor training at Fort Knox, we spent three years in Germany. I served two years in a tank battalion, before transferring to my basic branch, Ordnance. I finished my final year as a Company Commander of a 250-man maintenance company. We enjoyed our three years in Germany: The Germans, my work, married life, and the birth of our first child, our daughter Sarah. I always had an interest in pursuing an MBA, and three years with troops in line organizations had sharpened that interest. I applied for a discharge, but the Army had other plans and reassigned me to a one year tour in Vietnam. Again, the Army assigned me as Company Commander for a large heavy maintenance company in the central Vietnam. Army service and experience was and still is
a very important part of my life. Phyllis and I had choices for graduate school, but the pull of Boston, the Charles River, the Bruins & Red Sox and the North Shore quickly settled us on HBS. Like all MIT alumni, I was used to hard work and stiff competition. MIT prepared me well, and I graduated in the spring of 1970 with distinction. Thanks, MIT! A bonus for Phyllis and me was the birth of our second child, our son Ben. In selecting a job at graduation, I gave Phyllis the biggest surprise of her life! After thinking we might spend the rest of our lives in Marblehead, MA, I took a job as Assistant to the President of a small oil and gas exploration and drilling firm in Tulsa, OK. I had grown up around large machinery, roughnecked on rigs during MIT summers and knew I wanted to work for a large machinery firm. I had offers from those firms, but there was an appeal to the Tulsa firm. Perhaps I felt I could give something back to my native state. Phyllis had and still has a classic combination of ‘Yankee ingenuity' and ‘Southern hospitality', and Tulsa was the big winner in our decision. Working for my new firm, 50-year old Helmerich & Payne, Inc., gave us opportunities to quickly make friends and participate in Tulsa's life. Timing was good, and the drilling industry was emerging from a 15 year long desert-like depression. I assisted in designing, contracting and building our first new rig in 15 years, and we began a steady reinvestment in new machinery and technology through today. Neither we nor most of our drilling competitors invested in hiring engineers. I saw the need for and appreciated technology, and I made a successful case for building an engineering staff. From the first engineer in 1972 through 90 engineers in 2000, our engineers have been recruited from universities and trained in every part of our business. Phyllis and I moved our family to Lima, Peru in 1974 where I was the VP & General Manager for four new helicopter-transportable drilling rigs working in eastern Peru's Amazon Basin. The two year venture was a technical success and a commercial question mark, as we drilled 18 dry holes. The Company re-contracted the rigs on other South American projects, and we returned our family to Tulsa. I became VP International Operations in 1976, followed by President & COO of Helmerich & Payne, International Drilling Company in 1977. While life was very satisfying, we suffered the saddest time of our family's life. Our son, Ben, was diagnosed with non-Hodgkin's Lymphoma in the spring of 1976. For those classmates who have lost a child, you will understand the feelings that accompany an unexpected destruction of happiness and expectations. After two years of treatments, hospitalizations, dashed hopes and pain, Ben died in July 1978. At the same time, Ben's illness was our family's finest hour. The four of us sought and got much help in easing Ben's journey and resetting our compasses for the remainder of our lives. With her nursing education and a caring heart, Phyllis and Sarah organized play therapy for children in our Tulsa hospitals. Phyllis led the effort to establish, raise the funds and build the Ronald McDonald House in Tulsa. She has been involved in the leadership and activities of numerous activities to assist women, children and the disadvantaged in Tulsa and NE Oklahoma. We knew we had much to give as a family, and our threesome decided to adopt a young son, Grant. The Company gathered strength, despite the energy meltdown of the 1980s. H&P was distinctive in placing its bets on developing a new generation of rigs built around technology and engineering. We moved from being the best medium size contractor with ~ 100 rigs, to the largest US contractor with over 250 rigs now operating. The working fleet is all new since 2000, and has full activity, the highest rates by a substantial margin, the best performance and safety records and is rated the best onshore drilling contractor. The Company has worked in almost 30 countries around the globe since the early 1970s and operates today in North and South America, the Mid-East and Africa. There is no question that MIT played a role in our success. I retired in 2006 at age 65, and stayed for an additional three years as an advisor. I served 17 years on the H&P Board, 8 years on the Varco International, Inc. Board, and 24 years on the Atwood Oceanics, Inc. Board. I am presently the Chairman of the Board for Atwood Oceanics, Inc. During my working years, Phyllis and I traveled abroad extensively. We continue to travel frequently in the US and occasionally abroad. Sarah and her husband have three sons in Mission Hills, KS, a suburb of Kansas City; her husband and I are partners in a Kansas City, KS manufacturing firm. Our son Grant lives and works in western Colorado; he has one daughter. Our children and their families give us immense satisfaction and enjoyment. We are fortunate to visit and travel frequently with them. Phyllis and I are quite active in civic efforts. We are both involved in efforts supporting mental health, the young, aged and disadvantaged in Tulsa. We are both Trustees for an Episcopal home for the aged, and chaired a successful campaign raising $30MM to build new and substantially renovate the entire campus. MIT,
HBS, and Simmons College were there for us when we needed them, and we continue to give our support. After all, without attending Simmons, I walked away with the best Simmons ever had to offer: Phyllis.

James Stark Draper

Course: XVI

Tell us about your recollections of your student years at MIT:

The Beta House, its camaraderie and charismatic president, Tony Aldrich, took me in. The House had other strengths. By helping brothers in school work the House was something of an academic power - it was on Dean's List for 6 of my 8 undergraduate terms. It had an athletic energy with captains in many sports. This overturned my geek attitude about personal sport and its value. I came close to not coming in, as my father demanded I live home the first term. That was ugly. Joining the Beta House in January 1959, I moved in with Mead Wyman, Dave Koch and Bryan White, an upper classman, in 2nd Rear with a look down to Storrow Drive’s hustle and across a frozen river to MIT. The ultimate killer course was Organic Chemistry 5.02. Dave and I sat across two beat-up desks studying until I am firing questions out of huge, tattered “5.02 Class Notes’. We aced the course. I figured I’d dodge a 2 year phys-ed requirement by going out for crew. That began a wonderful 4-year stint. Summers were somewhere in the aerospace industry ... interesting but not my thing. I looked forward to hiking the back country of the White Mountains or Katahdin. Bud Boring, Steve Aldrich, Rein Beeuwkes and I survived harrowing days at 40 below up on Franconia Ridge across from Cannon Mountain. Imagining ourselves Jack London and Robert Service, Steve Aldrich and I snowshoed under the moon into Chimney Pond on Katahdin. Billy Koch and I rolled our canoe in Stair Falls on the East Branch of the Penobscot but with pluck, and plastered with mosquito bites, brought out our kit. The most pluck I lived with was Dave Koch’s when we were in 2nd Front. He brought a badly damaged knee back into playing shape. While lying on our couch and hanging a weight on that ankle over the couch arm, he repeatedly raised it as he studied. The Beta House had great singers whose conceit led them to descend on Wellesley College to attract attention; I wasn’t able to contribute for, lacking musical neurons, I was directed to lip-sync. I compensated by clearing the rats out of the kitchen trash with my shotgun. Booker, the butler and very tranquil, and Woody, the cook and very edgy, were, in ways, the most interesting chaps in the House. One morning in the basement kitchen as I waited to blast a rat Woody, always excitable, ran up wagging a long knife under my nose demanding if I thought the Dow would clear 600? In one fight David saved my bacon as I was getting pulverized and losing my prize Hawaiian shirt. He and I would trek down to the Peppermint Lounge and “do the twist’. My greatest boon was when he and I together met Jane with whom I have lived many adventures since. I do recall occasionally visiting MIT to sit in class rooms and working hard with Professor Jack Kerrebrock, my great mentor in Aero sciences.

Tell us about your professional life and experiences since you graduated from MIT:

In 1963 I began working at MTRHAS, INC, an MIT spin-off started by Professor John Markham. There I worked for my second great mentor Jacques A. F. Hill. I became deeply involved in high altitude rocket plumes - a topic of strategic interest because of the need to detect and characterize rockets of the Soviet Union. I spent much time at the Mach 8 wind tunnel in Tullahoma TN with an investigation of stray light picked up by high altitude missile sensors. In the process of proving that particles from the rocket combustion chamber moved forward at high altitudes to get in front of the rocket to scatter the stray light, we shut the whole tunnel down - ”We’ll never do that again!” said the management. I analyzed our
laboratory data and demonstrated the presence of spatial filtering in the remote measurement of infrared of turbulent jets such as rocket exhausts. By 1970 I was ready to help Professor Kerrebrock on molecular excitation in MHD channels and, at length, earn a Ph.D. in early 1971. I paid my way by consulting with the Harvard School of Public Health on particle scattering in environmental sensors and built our first log cabin on a remote island in northern Maine with yet another mentor of mine, Oscar Partinen, a local farmer, guide, hunter and logger. After demonstrating vibrational excitation of CO in an MHD channel, I became the third employee of Aerodyne Research immediately diving into high altitude plumes under yet another great mentor, Mort Camac. I worked on the radar and optical signatures of the wakes of RV warheads splashing in the lagoon at Kwajalein. Jim Moran and I worked on the physics of very high altitude rocket jet plumes where continuum flow theory broke down - again in a long series of wind tunnel experiments at Tullahoma. This took me into the ARPA Plume Phenomenology Program with yet another mentor, Dr. Hans Wolfhard. By combining data from Apollo launches and molecular beam experiments Professor Harold Wachman and Bill Shih had made at the MIT Aero/Astro Dept, I developed a heterogeneous chemistry combustion model that showed why Apollo exhausts sustained flames to very high altitudes. In 1979 the Air Force asked me to explore possible new uses of what was felt to be an obsolete satellite system. I laid out a new set of missions that became, and remain, an important family of satellites. In 1985, having been president of Aerodyne for 5 years, I sat down with my management to set up the succession to my departure then 6 months in the future. The process was a success. Aerodyne has grown and prospered under the that management for over 25 years. I founded KTAADN, INC. and pursued a long series of new collection approaches including tracking missiles in 3D with single passive sensor and extracting airplane ID’s with sensors of opportunity and innovative uses for autonomous drones. When an opportunity arose, KTAADN was ingested in a series of moves starting in 1999 and terminating in 2006 at Raytheon that left me, as they say, “retired’.

Tell us about yourself and family and interests over the past 50 years:

Jane and I married in 1963. From Cambridge we moved to Newton close to our folks and raised two great kids. Allison, an editor and writer, is married and has three children. Stark, a third generation MIT PhD and professor of Electrical Engineering at the University of Wisconsin, is married and has one child. In Maine Jane and I staked out a claim on a wild “Island’ in 1965 and put up a lean-to - open on one side. We built a Main Camp in 1970 using logs (tree trunks for those who live in Starbucks) and later a smaller log camp, the House, and a number of out buildings. In summer our kids grew up in logging company land, now part of the Appalachian Mountain Club’s ‘Maine Wilderness Initiative’. I served as a Trustee to the Newton Historical Society in Newton, as a Board member for the Family Service of Greater Boston in downtown Boston, a Trustee for the Bigelow Laboratory for Ocean Sciences in Boothbay Harbor Maine and on various company boards. Jane and I sail and I have helped ferry sailboats about - sometimes with the pleasure of driving through horrendous weather hilariously termed ‘tropical depressions’. A big pleasure for Jane and me was founding MIT’s first endowed scholarship for undergraduate women in Engineering and Science - The James E. Cunningham (MIT Beta ‘57) Scholarships. Since its inception in 1983 the Cunningham’s have aided over 70 women in six MIT Departments, women who have gone on to great achievements. When John Langford described how his MIT team won an international prize for human-powered flight, I suggested that he recreate the escape of the engineer Daedalus from the Labyrinth on Crete. And he did just that by leading the team that created the human-powered “Daedalus’ that made a record 74 mile flight across the Aegean Sea from Crete to Santorini in the spring of 1988. In 1991 Billy Koch asked me to support his 1992 America’s Cup entry with a local wind sensor that went on to aid his winning team as the last Americans to successfully defend the Cup. Six years ago Jane and I moved into my parents’ house in Newton - Doc Draper’s “Thesis on the Charles” - where we enjoy the struggle of living in and improving an old house. I have taken to writing: “The Voyage of the Throbbing Unconformities” about the trip down the Grand Canyon led by our son Stark, “Recovering Dream” about wild times in northern New Hampshire and Maine, “That Splendid Pseudonym” about that Frenchman Americans don’t want to think about - Charles de Gaulle, ”Hunting up Oscar” about building log cabins in the Maine woods, and ‘The Forgotten Excalibur’ about my father’s
remarkable anti-aircraft gunsight used by the US Navy in the Pacific War. Now working with Mead Wyman and his whole 50th Reunion Committee has been most special.

Sam Duncan

Course: XVIII

Tell us about your recollections of your student years at MIT:

Being invited to live at the MIT Student House before I made the trip from the Missouri Ozarks to Massachusetts had a great effect on my four years at MIT. The co-op house is located on the Boston side of the river, and that three-mile round-trip each day across the Harvard Bridge with my friends won't be forgotten. Living at Student House was a wonderful experience for me; there was a great spirit of cooperation and helpfulness among the members. All work at the house except cooking was done by us, and I learned a lot about cleaning, repairs, scrubbing pots and pans, and painting. We had great intramural sports teams and I participated in all of them. I really loved the Boston area, and spent lots of time exploring. Studies were tough; I came from a small high school in which only two teachers had master's degrees, and we didn't even have a course in trigonometry or above. But by the time I took my final in 2d semester calculus, I felt so confident I used a fountain pen. And thank goodness I arrived about the time computers were taking off, so I took every computer course available. However, at that time no one had thought about having a computer science major. I loved the TX-0, and enjoyed the courses taught by F.J. Corbato. As a senior I worked part-time at the National Magnet Lab as a programmer. Before that I'd worked in the dining halls and Pritchett Lounge, making sandwiches and "frappes." But Student House was really my life, and it was wonderful. I served as Steward and then as President my senior year. I liked it so much that when my daughter was accepted to MIT, she lived there as well.

Tell us about your professional life and experiences since you graduated from MIT:

After graduation I worked at General Dynamics Pomona Division in California for seven years, with one year off to work as a TA. at USC while getting a master's degree in math. At GD I was asked to teach FORTRAN programming to other engineers and found that I enjoyed teaching very much. I realized that I didn't want to spend my life making weapons, so I left GD and went to the Congo to teach math and physics at a branch of the national university, passing through Belgium to work on my French. I was in the Congo for about ten years, and managed to get some programming done on the new microcomputers (e.g., TRS-80) that were coming out in the late 1970s. I came back to the US and worked as a programmer for a year to get caught up, then went to the Central Philippine University in Iloilo City to set up a computer center, train staff, and start programming classes. I wrote statistics and linear optimization programs for use by the schools of engineering and agriculture, and automated the registration process for CPU's 10,000 students. But my main goal was to train as many staff and students as I could. After three years I handed over my responsibilities to a colleague I had trained, came back to the US, and took a position as the IT director for the American Baptist Churches, a denomination that has the most diverse membership of all mainline denominations. I've stayed there ever since, and am having so much fun that I haven't thought about retiring. I've taught at and developed curricula for Eastern University in statistics, research design, and quantitative decision-making.
Tell us about yourself and family and interests over the past 50 years:

I have two girls and a boy. One daughter was born in LA, my son was born in the Congo, and my other daughter was born in the same hospital as my son, but in a different country - Congo changed its name to Zaire in 1971. It's now the Congo again, and Zaire no longer exists. I think my daughter is one of very few Americans with a birth certificate from Zaire. They spent part of their childhood in the Congo, which was a very nice place to raise a family. Even though we were not in a major city, there were several Americans around so the kids felt comfortable with American culture. Every couple of years, the government paid for a trip home for foreign teachers, so we kept in touch with our families during our ten years there. My older daughter went to MIT and majored in biology and the humanities (she also lived in Student House), my son graduated as a mechanical engineer from Penn State, and my younger daughter graduated in sociology from Bryn Mawr. I'm grateful for the 13 years in different cultures; it's certainly had an effect on me and on my children. I've served as Democratic committeeman, I'm a lifelong member of the ACLU, and I'm involved with People for the American Way in such things as helping prevent voter intimidation in Philadelphia. Perhaps my greatest disappointment has been that reasonable and sensible patriotic Americans were unable to stop the deceitful march to war in March 2003, leaving 600,000 dead Iraqis as a US legacy.

David K. Duston

Course: VI-A

Tell us about your recollections of your student years at MIT:

I joined PSK 2nd semester. I stayed around long enough to get a BS, MS, and EE in electrical engineering. I then finished with a PhD at RPI. I was very active at the sailing pavilion and soon was certified to operate everything that moved up and down the Charles. In later years I helped name the laser sailboat. Fifth year I was a TA in course six and in years six and seven an RA associated with Lincoln Labs. Prof. Bose was my student advisor. I once got an A+ in Electrical Circuit Theory with a grade of 23 on the final exam.

Tell us about your professional life and experiences since you graduated from MIT:

Worked at the GE research lab in laser applications and extremely high powered lasers. Then went to a startup and designed industrial laser machining equipment. Then worked for a military contractor as senior optical doctor. Then joined the family energy business in southern N.H. tripled its size computerized it then sold it and retired. Currently hold twelve patents

Tell us about yourself and family and interests over the past 50 years:

I continued sailboat racing, skiing, hiking, tennis, and bridge and then added golf, ballroom dancing and other retirement sports. We have six children and fifteen grandchildren (five of whom have graduated college). We are now retired calling southern NH home but we winter in Florida and summer on the coast of Maine.
Tell us about your recollections of your student years at MIT:

While we all worked hard at studies, we played hard also. My future wife, Judith, would record data in physical chemistry lab and then we would go out on the town. Foreign films and coffee houses were big. Elsie’s Sandwich Shop in Harvard Square was wonderful. We had season tickets to the Boston Symphony, went to experimental theatre, heard Joan Baez sing in the coffee houses and Pete Seeger play Bach on the penny whistle at Harvard. I fell in love with the Boston Fine Arts Museum. Durgan Park once a month for prime rib and Indian pudding. Wonderful used book stores in Scollly Square and Harvard Square. But then there was always a hard grind of studies while we took 36+ credit hours per semester!

Tell us about your professional life and experiences since you graduated from MIT:

MD at University of Washington 1966. Internship & Medical Residency Johns Hopkins, 1966-69; Hematology Fellowship with Carl Moore at Washington University St Louis; 2 years in Amy at Fort Benning 1970-72, then biochemistry Labs with Stuart Kornfeld at Washington University 1973. Became chief of Hematology – Oncology at Cochran VA hospital (St. Louis) and did glycoprotein biochem research. 1978 founded Hematology Oncology Consultants, Inc. which grew to 3 offices in two states with 35 employees. Retired to Steamboat Springs CO 2003.

Tell us about yourself and family and interests over the past 50 years:

We are busy in Colorado skiing, cooking, hiking, fishing, reading and volunteering. Traveling abroad for sightseeing and cooking schools. Children live in Arizona/Japan and Idaho.

Tell us about your recollections of your student years at MIT:

My years at MIT were a great experience! As with most of us, it was my first time away from home, and for a kid from Texas and California, Boston was a really new and exciting experience: subways, snow, study breaks walking around the Charles River basin, frappes, submarine sandwiches, and those weird hot dog buns. (I'm still looking for a really good sub sandwich here in California.) The student radio station (then WTBS, now WMBR) was my primary extra-curricular and social activity. Many, many hours were spent at the station, either working or, often, just "hanging out". The folks there became my best friends in college -- we had a great reunion in Cambridge in 2011 celebrating 50 years of FM broadcasting. I really consider the skills, especially the "people skills", learned at WTBS to have been an important part of my MIT education and experience! My travels between MIT and California included crossing the country 14 times by train, usually the Santa Fe. At the end of
each school year, I looked forward to unwinding during the three-day train trip to California. I still have a love of trains.

Tell us about your professional life and experiences since you graduated from MIT:

During my MIT years, I spent five summers working at Hewlett-Packard (HP) in California. When my MIT days ended in 1965, I was ready to leave the snow of Boston for the California climate. Job offers from several companies offered higher pay, but by now I was a believer in the "HP Way" management style, so began a many decade career at HP and its Test and Measurement spin-off, Agilent Technologies. Finally, in 2006, retirement beckoned after 41 years with HP and Agilent! Having left MIT with equal interests in digital hardware and software, my career started with hardware. When microprocessors came on the scene, I convinced my manager they might be useful devices by rigging up a system (in my spare time) to play the game of NIM, complete with a "backdoor" (allowing me to win!). This was the beginning of my transition into (and love for) software engineering. HP and Agilent were good at encouraging people to follow their interests, and my MIT education served me well. Most of my career was in R & D developing frequency & time products, including a "computing counter" (ahead of its time, as microprocessors were not yet invented), a "time synthesizer", a "modulation domain analyzer" (including a major IC development project), and clocks for network synchronization. When my network synchronization project was sold to another company, I had 10 days to decide whether to go with it or stay at Agilent. Decision to stay, I moved just across the aisle for a new experience with laser interferometry. Perhaps the hardest part of this transition was remembering to speak of nanometers rather than nanoseconds!

Tell us about yourself and family and interests over the past 50 years:

My wife, Meg, and I celebrated our 29th Anniversary last year. Although we are both retired, it seems we are busier now than ever. A major event happened in 1976, when I discovered Western Square Dancing! Described as "dancing for thinking people", it provides both mental and physical exercise, and is well suited to the engineering mind. It's not unusual to find other MIT alumni at dances, and one local group once had four MIT grads as callers. Most importantly, this is where I met my wife! Wanting to share the fun by teaching others to dance, I attended "Callers' School", and in 1987 auditioned and was selected as Club Caller for Bows & Beaus, the same group where my wife and I first met. Twenty-four years later I'm still calling there. Much to my surprise, it's really fun being on stage "behind the microphone"! Our travel often involves square dance activities (Dances and Callers' Conventions), but we both enjoy other trips as time permits. The island of Lanai in Hawaii is one of our favorite destinations for just relaxing. Although I really enjoyed my engineering career, I never wanted it to become my sole focus. In reading the Class Notes in Technology Review, non-job-related activities were often of the most interest. Now that most of us are retired, perhaps we will see even more reporting of these "leisure time" activities.

Barry Fidelman

Course: VI

Tell us about your recollections of your student years at MIT:

Being at the top of my class in high school, it was a shock to meet and compete academically with a large group of students who were intellectual peers. I went from being a top student to just a good student. It was hard work. I think that Economics may have been
my favorite course. Joining Pi Lambda Phi as a freshman smoothed my entry into MIT as the "brothers" provided strong social and academic support to incoming students, and the house was a home away from home that we took pride in running and maintaining. I also enjoyed playing on the MIT tennis team for a couple of years and inter-fraternity athletic competition. Although I successfully graduated from Course VI, Electrical Engineering, I realized that I was not cut out to be an engineer, so I went directly to Harvard Business School where the work seemed easy compared to the rigor of MIT.

Tell us about your professional life and experiences since you graduated from MIT:

I went directly to Harvard Business School right after graduating from MIT. At that time about one-third of the incoming class had no business experience, and we especially enjoyed playing the role of the CEO in the case studies we worked on. Classes were quite different from MIT, no windows, ties and jackets required, Saturday classes, and discussion of cases rather than lectures. After graduation, I went to work for three years at Fairchild Semiconductor in California starting in accounting/budgeting but moved into product marketing, then sales based in Chicago. I joined Data General (minicomputers) in Massachusetts, then a private company, in 1969 and stayed until 1981. I worked in various roles sales engineer, regional sales manager, VP European Operations (living in Paris for 6 years), VP Information Systems Division. In 1981 I joined Apollo Computer (workstations) as VP Worldwide Sales/Services and left in 1985 after it grew from $3 to 300 million in revenue. Afterwards, I joined Alliant Computer (mini supercomputers) for two years as President, International Division. In late 1987, I took a year off on a self-sponsored sabbatical rejuvenating with my young family. Then in 1988 I joined Atlas Venture (venture capital partnership) as a Partner and have been investing in technology companies for over 20 years. I am still currently on five boards working about 70 percent of the time as the rumors of my retirement are premature. I will be 72 at the time of this reunion, so it may be time to get serious about the next phase, whatever it is.

Tell us about yourself and family and interests over the past 50 years:

I have a wonderful French wife, Odile, who I met when I worked in France for two years. We have two grown children, Claire, who happily lives in the Boston area, and Marc who lives in Austin Texas. We see them on vacations, mainly skiing which we have done as a family since they were 2 and 4 years old. These days we are skiing (and snowboarding) in Vail, CO, although for many years the destination was Deer Valley, UT. Both Odile and I enjoy tennis on a regular basis. If I could hit a driver, I would be interested in golf, but it seems to be a perfect way to ruin a good walk. I occasionally still try. Traveling, museums, and movies are also pastimes that we continue to enjoy.

Howard E. Fineman

Course: II

Tell us about your recollections of your student years at MIT:

Academically CHALLENGING (and that was on the GOOD days!) That said, I learned far more than I thought I had, but I didn't realize that till I became a practicing engineer after graduation (see below). What decades of exposure to many fields has shown me is that most of what we learned is easily transferable to new personally-uncharted territories. This is about how we learned to think and approach new problems. I believe it was our junior year (perhaps celebrating the centennial) that TIME magazine had an article about MIT in which a comment from someone being
interviewed was something like "...MIT is a nice place to be from, not at." My own undergrad experience and the 50 years since then support that notion. Despite all the challenges, I fondly remember my close relationship with three professors in the Mechanical Engineering Department: Tom Sheridan, my thesis advisor; Bob Mann; and Herb Richardson. I learned an enormous amount from them, partly because they had so much knowledge to impart, but also because they were excellent teachers who knew how to effectively impart that knowledge.

Tell us about your professional life and experiences since you graduated from MIT:

The short version: Engineer & Engineering Manager in aerospace/defense for 14 years; for next 32 years, dual focus on business strategy and technology in minicomputers, workstations, servers and storage; retired 4 years ago and now volunteering for SCORE in Boston, helping small businesses be successful, while growing my fine art photography business (FinemanPhotography.com). The longer version: After MIT, I worked for AAI Corp (Baltimore MD) in aerospace and defense -- a great company for a young engineer in the 60’s. One important self-discovery was that I had actually learned at MIT how to dive into unfamiliar systems and problem areas and apply engineering and science principles to understand the problems and come up with innovative solutions. The common thread through a wide variety of projects was Measurement Engineering and Instrumentation, which started as an undergrad. One fascinating project was developing the world’s first laser schlieren system for NASA Ames to use in a simulated 400K foot altitude/Mach 14 wind tunnel to measure bow and wake shocks on the Apollo Command Module during reentry - we improved the state of the art by two orders of magnitude. A few years later, my development of new approaches for automated testing of complex fuel controls for jet engines indirectly led to my next career move. After 7 years at AAI, I moved to RCA Automated Systems Division in Burlington MA to join their new team developing electronics testing of truck and tank engines for the military, with the intent of later applying the technology in the commercial sector. In the early 70’s, I conceived, developed and marketed early microprocessor-based ‘expert systems’ to detect and diagnose faults in diesel and gasoline engines for the US Army. The automated test systems developed by my team gave minimally trained technicians in the field the ability to apply the diagnostic expertise of highly skilled mechanics in repair depots, and later versions of these systems made a major difference in the operational readiness of the tanks and trucks deployed in the desert in the first Gulf War. This phase of my career might well have been called “boys and their toys” -- our lab was a very big garage with an M48 tank, a variety of large and small military trucks and lots of instrumentation including a dynamometer big enough to handle a powerful 12-cylinder diesel tank engine -- don’t ask about its crappy mileage. In 1976, the year after getting my MBA from Northeastern, I moved from incorporating computers in the test systems I developed to working for a computer company -- Digital Equipment Corp. This one-year experiment in my career lasted 16 years. By this point, I had shifted to growing the business of advanced technologies rather than advancing new technologies myself. During my time at DEC, I had a variety of great jobs in different business units, mostly related to strategy and business planning. My last five years at DEC were in a small culture-changing corporate group whose mission was to build technology alliances with other companies around the world. The big culture change for DEC was accepting that we didn’t have to internally invent and develop everything we sold to our customers. During this period I had the privilege of DEC sponsoring me at the Stanford Executive Program, which was a great exposure to worldviews differing widely from what I was used to. Of the 180 execs in our program, only six of us were in technology firms and about half were from outside the U.S. After leaving DEC in 1992 and consulting on strategic partnering for a year, I joined Data General’s AViiON Server Division, primarily focused on OEM business development for a new architecture class of large scale servers pioneered by the legendary Tom West. We were simultaneously shifting our entire product base from proprietary processors to Intel-based processors with the accompanying challenges of shifting our sources of profit as more and more key system components became industry-standard commodities. In 1999, EMC acquired DG for our CLARiiON Storage business, and I moved from servers to storage, focused on strategy for the EMC mid-range storage business. Over the next 8 years, that product line grew 5-fold in revenues, was very profitable, and became the core underlying hardware technology across much of EMC’s business.
Tell us about yourself and family and interests over the past 50 years:

While my MIT undergrad and later graduate education at Northeastern and Stanford has been invaluable for my professional career, the most important aspect of my life has been my wife and children. I met my wife, Janice Klein Fineman, two years after MIT. We married in 1965, and this spring we celebrated our 47th anniversary. Our terrific children are Debbie and Dan, and Dan’s recent wife Leslie. In early 2008, I retired from EMC. I expected to slow down a lot and put away my workaholic tendencies. Instead, I have been extremely busy, almost as much as before I retired. A former colleague recently told me that I didn’t retire -- that I just changed careers. I now volunteer at the Boston chapter of SCORE, providing guidance to small business people, both those planning to start a business and those already in business. With a large and fascinating array of clients, I am continually energized by helping my SCORE clients succeed. This has been a great way of "giving back." I have been an avid photographer since I was 13 years old (but with a 4-year hiatus while at the Tute). Many friends told me that when I retire, I should sell my work. About a year after retiring, I started my fine art photography business (FinemanPhotography.com). I have been accepted in a number of juried shows in Newton's active arts community, and have received lots of acclaim from visitors, clients and highly regarded photographers and artists. My image interests are eclectic -- landscapes, waterscapes and cityscapes; nature; architecture; and contemporary sculpture. The unifying theme in my diverse portfolio is what strikes me as beautiful or compelling, especially if I can represent it in a way that is unusual. I recently received this feedback from the curator of contemporary art at a major US museum about my image of the Reichstag Dome in Berlin: “you’ve created a very unique vision -- an abstract transformation of the architecture, which reminds me of some of the great cubist-inspired photographs of the early 20th century.” I continue to refine my craft and enjoy the capabilities of my digital darkroom which far exceed anything I could have imagined in my old wet darkroom. I hope you'll visit my website, or contact me at Howard@FinemanPhotography.com.

Jean-Pierre Frankenhuis

Course: XVIII

Tell us about your recollections of your student years at MIT:

My years at MIT were unquestionably one of my happiest periods. In addition to an overflowing class schedule, by design, there were all the activities and the lively life in and around Cambridge, to which I added frequent trips to New York. On campus I started the Entertainment section of The Tech, did theatre and movie reviews on MIT's radio, founded a literary magazine (which didn't lastâ€½), wrote, directed and acted at Dramashop, played varsity football (sorry, soccer) and took in all of the great offerings, such as movies at the Brattle, conferences everywhere or music at Symphony. Off campus I shared living quarters with great friends - I had joined a fraternity but got quickly tired of the infantile boobs / alcohol / petting-under-the-piano / hazing / vroom-vroom culture. This is not to say that I wasn't guilty of a few stunts or "incidents". Here are some I recall fondly. (1) Dramashop presented the play "Him" by e.e.cummings in its 1957-1958 season and my friend Mike Meeker, with whom I roomed, played the main character while I had two small parts. As usual, towards the end of rehearsals and just prior to opening night a great deal of time was spent on lights and most actors, finding little quiet niches, slept or studied while waiting for their turn. Mike was wearing one of the many costumes required by the part: that of a Roman general, headgear, short "skirt" and all. I had already changed into street clothes but had to wait for him before we drove home in his 4CV Renault - the one