



Craig J. Duchossois

Degrees: B.B.A. ('67), Southern Methodist University; M.B.A. ('68), Southern Methodist University

Career: Served in Japan and Vietnam in United States Marine Corps; CEO of Duchossois Group; Board of Directors of Churchill Downs, Inc., Culver Educational Foundation, University of Chicago, Kellogg Graduate School of Management, World Business Chicago, University of Chicago Hospitals, and Executive's Club of Chicago; member of Chief Executives Organization, the World Presidents' Organization, the Commercial Club, and the Economic Club; chairman of the Board of Visitors for the United States Naval Academy

Honors: 2006 Honorary Fellow, University of Chicago's Biological Science Division; 2002 Distinguished Alumni Award, Southern Methodist University's Cox School of Business

IIT Service: Duchossois is an IIT Life Trustee and serves as chairman of the Executive Committee. He has supported many initiatives and scholarships at the university, including the Duchossois Family Endowed Camras Scholarship, which has funded approximately 25 students every year since 2000.

IIT Memories: "My greatest IIT memory is when Bob Galvin approached my family during the capital campaign and asked us to participate."

Inspiration: "What inspires me is people helping people."

Advice for Students: "Work hard on your academics, but step outside once in a while and participate in non-academic organizations. This can help you develop leadership skills and help you develop as a 'whole' person."



Michael McCullar

ME '00

Degrees: B.S. Mechanical Engineering ('00), Illinois Institute of Technology

Professional Achievements: Houston 2009 Young Engineer of the Year; Jacobs Technology Quarterly Award; NSBE 2009 Alumni Leadership Award Winner

Current Project: "I am working in consultation with Dr. Daniele Mortari of Texas A&M University toward realizing my original design of a multi-satellite telescope to produce sharp images of space."

Thanks to IIT: "IIT is invested in producing high-quality engineering graduates. There's a strong technical foundation. They make sure that the problem-solving is ingrained in you."

IIT Memory: "As a freshman, I was a part of the first IPRO project in 1994."

Inspiration: "I am inspired by my parents, Charles and Tonja McCullar, and my brothers David and Steven McCullar. My wife Angelina (Nelson) McCullar (ARCH '02) also inspires me with really good, wise advice. She can see things I don't see in a situation."

Future: "I am working toward funding my new non-profit, called Seal of Valor, which would train disadvantaged youths to become certified machinists. I was inspired in part by hearing the stories of classmates while at IIT. There were guys who had to run from gangs just to get to school. They were very smart, and it inspired me that they endured such a negative environment just to get to school."

Advice for Students: "Get involved in IIT's research. Doing this helped me understand my studies and gave me something to put on my resume."



Andrea Berry
CS '84

Degree: B.S. Computer Science ('84), Illinois Institute of Technology

Career: Berry is senior vice president, Broadcast Operations for Fox Networks Group, leading the team that makes sure many live TV shows are well-executed on the air. Berry has worked for many years to broadcast high-profile live events such as the Super Bowl, the World Series, the Olympics, and political conventions.

Honors: Several Emmy Awards for outstanding technical team remote in sports

Thanks to IIT: “I discovered my passion for broadcast operations while a disc jockey for IIT’s low-power radio station. I spun records and produced a local area newscast in a cold, dark room on the top floor of Main and could be heard on campus and nearby neighborhoods. It was this experience—along with my work-study job broadcasting IIT classes on closed-circuit television—that helped launch my career.”

IIT Memory: “My IIT mentor Nate Thomas watched out for me and the other African-American students he mentored. He talked to our professors and knew our grades before we did. He was like our dad on campus. Thanks to the community he created, I can go to almost any big city in the United States and have an IIT friend there.”

Advice for Students: “Look outside traditional engineering firms for jobs. Follow your passion. Don’t let other people say you can’t do certain things. Be creative and definitely finish what you start.”



Bill Gross
ME '52

Degrees: B.S. Mechanical Engineering ('52), Illinois Institute of Technology; certification from the Managerial Policy Institute, University of Southern California

Career: Gross climbed up the ranks at Douglas Aircraft Company/McDonnell Douglas, playing an instrumental role in the evolution of the aviation industry over many decades. He designed systems and led developments in everything from the early DC-7s in the 1950s, to the MD-80s and MD-11s in the 80s. He became president of the company in 1987. After retiring in 1989, he continued aviation consulting around the world.

Service: Member of the boards of CADE Industries (1997-2000) and OCAL Inc. (1990s); P2S Engineering (2004 to present)

Career Highlights: “Serving as chief designer for the DC-9, program manager for the DC-10, and leading the effort with the UAW to initiate profit sharing, employee involvement and quality improvement.”

Hobby: “Nature photography, which provides two ‘aha’ moments: One when you see your subject in the viewfinder, and another when you view the final photo. Looking into all eight eyes of a spider staring straight into the camera, or watching a bald eagle in flight is simply wonderful.”

Most Proud of: “Helping make major advances in transportation, which had the effect of bringing people together. When you can fly across the ocean and look someone in the eye, he is no longer a stranger.”

Inspiration: “My mentors at Douglas Aircraft inspired me, motivating me with their intelligence and leadership.”



Watts S. Humphrey

M.S. PHYS '50

Degrees: B.S. Physics ('49), University of Chicago; M.S. Physics ('50), Illinois Institute of Technology; M.B.A. ('51), University of Chicago; Hon. Ph.D. Software Engineering ('98), Embry Riddle Aeronautical University

Career: Humphrey is the founder and director of the Software Process Program at the Software Engineering Institute at Carnegie Mellon. He developed the Capability Maturity Model, the Personal Software Process, and the Team Software Process to help software developers predictably create efficient and error-free software. At IBM (where he worked from 1959-1986), he developed the first software license, managed OS/360 development, and, as the *New York Times* put it, “played a central role in making IBM software work.” He is also the author of many seminal articles and 12 books.

Honors: 2003 National Medal of Technology presented at the White House by President George Bush; Life Fellow, Institute of Electrical and Electronics Engineers; Fellow, Association for Computing Machinery

Also Known As: the Father of Software Quality

Favorite IIT Memory: “Working on challenging problems with Professor George Cohn. A problem could look like a dead end to us, but he would keep us moving. He was almost a magician, the way his mind worked.”

Roots of Success: “As a child, I had to work extraordinarily hard because of my dyslexia. I had to follow very orderly techniques to learn, and this influenced my approach to my work later in life.”

Inspiration: “Teamwork is the key to everything. It can make engineers or any group of people become amazingly effective.”



Mahesh A. Iyer

M.S. EE '91, Ph.D. '95

Degrees: B.E. Electronics Engineering ('89), University of Bombay; M.S. ('91) and Ph.D. ('95) Electrical Engineering, Illinois Institute of Technology

Career: Iyer began work at Synopsys as an R&D Engineer and rose through the ranks in the company, making significant contributions to electronic design automation that are now productized as core technologies in industry-standard Synopsys products like IC Compiler, Design Compiler, and VCS. He had significant impact on the design and verification of complex modern electronic chips, helped generate multi-million-dollar revenue for Synopsys, and was elected by the board to the position of Synopsys Fellow in October 2006, the highest technical rank in the company.

Professional Achievements: Published 20 papers and authored 22 U.S. patents, 14 of which have been issued

Hobbies: Spending time with family and badminton

IIT Memories: “Working at the Bog and flipping burgers. Making great friends, many of whom became lifelong friends, and being a part of the Indian Student Association.”

Inspiration: “If you want success, you cannot give up prematurely, because you may be close to success and not know it. Tough challenges are what inspire me the most. They distinguish you.”

Advice for Students: “Believe in your inner passion. Find what you love to work in, and then demonstrate that passion. Once you do that, opportunities and success will follow.”



Loretta Moore

M.S. CS '86, Ph.D. '91

Degrees: B.S. Computer Science ('85), Jackson State University; M.S. ('86) and Ph.D. ('91) Computer Science, Illinois Institute of Technology

Career: Professor and chair of the Department of Computer Science, Jackson State University, Mississippi; associate professor, Auburn University, Alabama; technical staff member, AT&T Bell Laboratories

Honors: Published and presented research in computer science on an international scale; served in a principal role on contracts and grants totaling over \$5,000,000, including grants from agencies such as the Department of Homeland Security, the National Science Foundation, Jacobs Technology, NASA Kennedy Space Center, NASA Marshall Space Flight Center, and NASA Headquarters

Service: “I am active in efforts to increase the number of African Americans with Ph.D.s in computer science and have organized and participated in numerous workshops to build opportunities for minority-serving institutions.”

Hobbies: Moore currently volunteers as a math and science tutor at her church.

Thanks to IIT: “I never saw myself as a full-time academic until I was encouraged by my professor and advisor Dr. Martha Evens to come back to IIT and earn my Ph.D.”

Inspiration: “My five siblings inspire me. They all work in education, medicine, and/or community organizations—and my mom inspires me. She raised six children on her own.”

Advice for Students: “Do not rule out academia as a career option—there are a lot of exciting research problems that you can focus on.”



Al Ver

CHE '68

Degrees: B.S. Chemical Engineering ('68), Illinois Institute of Technology; M.B.A. ('72), Ohio State University

Career: Ver joined Ford Motor Company in 1972 and held a variety of engineering, production, and managerial positions in numerous Ford operations, culminating in being appointed corporate vice president in 1999 and chief executive officer of the Ford-managed business entity Automotive Components Holdings, LLC in 2005. As the CEO, Ver managed 23 component and manufacturing plants in the United States and Mexico before retiring in 2008.

Professional Achievements: Director, Triangle Education Foundation; chairman of the board, Goodwill Industries of Greater Detroit; advisory board member, Institute for Advanced Vehicle Systems and Center for Engineering, Education, and Practice at University of Michigan

Honors: Triangle Fraternity Wall of Fame; Goodwill Industries of Greater Detroit Outstanding Board Member; Ford Motor Presidents Health & Safety Award

Career Highlight: “At Ford, my work included running global operations and traveling to just about every place in the world: Europe, South America, and Japan (31 times), among others. Before Ford, I had never traveled; now I have many good friends throughout the world.”

Service: “At Goodwill, we help people with barriers to learn the skills they need to work a job. To see a person get their first paycheck is absolutely moving.”

Thanks to IIT: “I really ‘found’ myself at IIT and in Triangle—every single thing I experienced back then contributed to the man I am today.”



Paul Wattelet
PHYS '62

Degrees: B.S. Physics ('62), Illinois Institute of Technology; Ph.D. Nuclear Engineering ('67), Purdue University

Career: 38-year career in the energy industry; senior engineer for Westinghouse Electric Corporation; supervisor, chairman, and chief executive officer, Sargent & Lundy

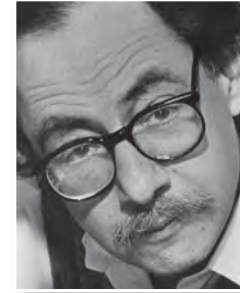
Professional Achievements: Under Wattelet's leadership, Sargent & Lundy developed new opportunities in nuclear, fossil fuel, and alternative energy plants. Wattelet wrote about business sustainability and leadership in his book, *Managing to Get it Done*.

Thanks to IIT: "IIT's rigor provided me with an excellent foundation for earning a Ph.D. in nuclear engineering at Purdue."

IIT Memory: "I entered IIT in 1958 as part of the Sputnik Influx—a spike in U.S. interest in the sciences once the former USSR launched the Sputnik spacecraft. I vividly recall a Crown Hall visitor's day reception, when my mom told then-president of IIT John T. Rettaliata, 'My son is going to get his PhD.' Mr. Rettaliata responded, 'Well, let's get him through four years first.'"

Hobbies: "Retirement has given me a chance to get back to playing piano and painting. I enjoy painting realistic scenes with people, boats, and streetscapes."

Advice for Students: "Focus, focus, focus on the basics and do your best at the tasks at hand—that's always served me well in the long run and in life in general."



Sidney Coleman 1937–2007
PHYS '57

Degrees: B.S. Physics ('57), Illinois Institute of Technology; Ph.D. ('62), California Institute of Technology

Career: Coleman was a giant of theoretical physics, influencing Nobel-prize winning research and advising 40-some Ph.D. theses. He became a tenured professor of physics at Harvard University at age 32 and remained a professor there for 43 years.

Professional Achievements: Named Donnor Professor of Science at Harvard; prolific researcher and author whose contributions include the Coleman-Mandula theorem and the Coleman theorem. His 1985 book, *Aspects of Symmetry: Selected Erice Lectures*, is a classic in the field.

Honors: Fellow, American Physical Society, American Academy of Arts and Sciences, and the National Academy of Science; recipient of prize for physics lectures from the Ettore Majorana Center for Scientific Culture, the Boris Pregel award from the New York Academy of Science, the Dirac Medal from the International Centre for Theoretical Physics, and the J. Murray Lack award from the National Academy

Humor: Coleman's research titles were influenced by his love of science fiction, including "Fate of the False Vacuum II" and "Escape from the Menace of the Giant Wormholes."

A Prized Physicist: In 2005, Harvard University organized "SidneyFest" a conference on quantum field theory and quantum chromodynamics. Nine Nobel Laureates were present, making it one of the largest collections of Nobel Laureates to gather in one place.

As Remembered by his Friends: "He taught physics in a purple wool suit and his students idolized him. His lectures were often standing room only." —*Robert Coleman, brother*



Henry Linden 1922–2009

Ph.D. CHE '52

Degrees: B.S. Chemical Engineering ('44), Georgia Institute of Technology; M.S. Chemical Engineering ('47), Polytechnic University; Ph.D. Chemical Engineering ('52), Illinois Institute of Technology

Career: Max McGraw Professor of Energy and Power Engineering and Management and director of the Energy and Power Center, IIT; director, Center of Excellence in Polymer Science and Engineering; interim president /chairman and chief executive officer of IIT and IIT Research Institute; chairman, IIT Department of Chemical Engineering; Frank W. Gunsaulus Distinguished Professor, chemical engineering; research professor, chemical engineering; professor, gas engineering; president, Gas Research Institute, IIT

Professional Achievements: Author or co-author of more than 240 published journal articles, papers, book chapters, and Congressional testimony; 27 patents; member of the Advisory Council of the Electric Power Research Institute and the Energy Engineering Board of the National Research Council

Honors: Member, National Academy of Engineering; fellow, American Association for the Advancement of Science, the American Institute of Chemical Engineers, and the Institute of Energy; Homer H. Lowry Award for Excellence in Fossil Energy Research; United States Energy Award; Lifetime Achievement Award of *The Energy Daily*; IIT Professional Achievement Award and Alumni Medal; IIT Hall of Fame; Georgia Institute of Technology Engineering Hall of Fame; named to American Institute of Chemical Engineers' *One Hundred Engineers of the Modern Era* list

As Remembered by His Friends: "Henry was at heart a great teacher, a great educator, a great mentor, and above all, a great friend."—*Roger Sant, Chairman Emeritus and Co-founder of the AES Corporation*



John Mitchell 1928–2009

EE '50

Degree: B.S. Electrical Engineering ('50), Illinois Institute of Technology; Hon. Ph.D. at Dublin City University, Iowa Wesleyan College, and IIT

Career: After three years of service in the U.S. Navy, Mitchell joined Motorola, Inc. in 1953 as a product development engineer in the communications division. He retired 45 years later as vice chairman of the board. He held numerous positions at Motorola, including chief engineer, vice president, assistant general manager, general manager, executive vice president, president, and chief operating officer. In 1973, Mitchell and Martin Cooper (EE '50, M.S. '57) led a team of engineers and technologists to create the world's first handheld mobile telephone.

Professional Achievements: Commissioned to President Reagan's National Security Telecommunications Advisory Committee

Honors: Alumni Medal and Professional Achievement Award, IIT

Service: Mitchell was extraordinarily generous to IIT students over the years, and his family's three endowed scholarships have enabled more than 70 students to receive college educations and pursue their dreams.

As Remembered by His Friends: "There is not a day that goes by that I don't use a tool, an insight, or a unique way of solving problems that John taught me. He was also one of the most charming individuals I have known. He could rip your presentations into shreds, destroying your impeccable logic, ridicule your carefully prepared proposals, and leave you knowing that he was right, that you had learned something, and that you were privileged to have had his attention." —*Martin Cooper (EE '50, M.S. '57)*



Kalyanji Gala

M.S. IE '66

Degrees: B.S. Electrical Engineering ('63), Maharaja Sayajirao University of Baroda; M.S. Industrial Engineering ('66), Illinois Institute of Technology; M.B.A. ('69), Loyola University

Career: Gala founded International Marketing Corporation in Mumbai in 1975 to bring advanced technologies from around the world to India. These include semiconductors, solar energy equipment, and cable harnessing for the auto, aviation and space industries. International Marketing Corporation works with 40 different companies from around the world. In 1971, Gala also founded Byculla Cold Storage, in Mumbai. It is the largest general-purpose commercial cold storage facility.

Service to Society: Gala is a leader in service organizations that support both artisans and farmers. He is president of Vivekanand Gramudyog Society, an organization that trains and employs women of the Kutch Region of India in embroidery, hand painting, and stitching. He is also a leader of two organizations that help Kutch farmers with water quality, drought, and earthquakes—Vivekanand Research and Training Institute, where he is a trustee, and Kutch Crop Services Ltd., where he is a director.

Service to IIT: Gala has played a leadership role in establishing an IIT Alumni Association in India, helping to organize numerous alumni events there over the past 12 years. He recently organized the IIT Asian Alumni meeting in Mumbai, India in February 2010.



Tetsuyuki Hirano

ARCH '79

Degree: Bachelor of Architecture ('79), Illinois Institute of Technology

Career: Architectural design, urban development, and international and CAD system projects for Kajim Corporation (1979–1986); Hirano & Associates, Inc. (1988–present); president, Hirano Design International, Chicago; advisor, Design Management Institute, Boston; adjunct professor for a number of universities throughout Japan

Professional Achievements: First-class authorized architect since 1985; cooperated with Harvard Business School to organize the Triad Design Project, which created a network of 13 international companies; served Japan's Ministry of Economy, Trade, and Industry, most recently chairing the Investigating Committee for Strategic Utilization of Design and earlier serving on numerous award juries, committees, and councils

Honors: 1996 Good Design Gold Award

Service: Board member, Energy and Environmental Solution Center; member, Japan Association of Corporate Executives; advisory council, Design Management Institute, Boston; designed the fundraising T-shirts for the Special Olympics World Winter Games in Nagano, Japan, in 2005

Design Philosophy: "Human-centered design is very important to me. People should never take a back seat to the design."

IIT Memory: "Studying with Masami Takayama and working on the idea of a mixed-use development in a virtual city. Later, after I graduated and worked with Mori Building Co., Ltd., that project led to the origin of Ark Hills, a major mixed-use tower in Minato, Tokyo, Japan. After Ark Hills, the idea of mixed-use design became more widely known in Japan."



Norb Kaiser

IE '63

Degrees: B.S. Industrial Engineering ('63), Illinois Institute of Technology

Career: Retired chairman and chief executive officer of Kamco Plastics, Inc.; former vice president at Arco Engraving and Die Mold Company

Honors: IIT Student Recruiter of the Year, 1989

Service: Kaiser has shown tremendous dedication to IIT by serving as a life trustee on the IIT Board of Trustees, and giving his time and leadership to IIT over many years promoting philanthropy, alumni involvement, Greek life, and student recruiting. He is also a member of the board of directors for S.S. White Dental Burs and Raffles Insurance Company; serves on Phi Kappa Alpha Epsilon Chapter Corporation; has provided leadership for Phi Kappa Sigma Housing, Society for the Plastics Industry, Society of Plastics Engineers, Development Council, Advocate Health Care, and Loyola Family Business Center.

An IIT First: “As a student, I proposed we have the first Homecoming celebration at IIT. It was a great inaugural event, and I arranged to honor Harris Perlstein [*IIT donor and namesake of Perlstein Hall*] as part of the festivities.”

IIT Memory: “I served as sophomore and junior class president, ITSA Student Body President, and Man of the Year my senior year. It was something I had never really dreamt of doing before—but my fraternity brothers encouraged me to do it. I think that’s how many things went at IIT—you accomplished things you weren’t sure you could, and felt very confident when you left.”

Advice for Students: “Look at the four areas of your life: career, family, faith, and community. Decide what you want to achieve in each area, and begin laying out stepping stones and a plan for each.”



Les Hardison

ME '50

Degrees: B.S. Mechanical Engineering ('50), Illinois Institute of Technology

Career: Hardison began his career at IIT as the first person hired to do full-time engineering work on IIT’s payroll as the assistant to superintendent of buildings and grounds. After many years at IIT, he moved on to work for UOP, Inc. and ultimately co-founded and presided as chief executive officer of ARI Technologies, Inc. After ARI was sold to Wheelabrator Technologies, he served as director of technology and senior consultant.

Professional Achievements: Former president and chairman of the board, National Seal Company; member of American Society of Mechanical Engineers, American Institute of Chemical Engineers, American Chemical Society and Air Pollution Control Association; holds several engineering patents

Service: Hardison has been a generous and dedicated friend to the university for more than five decades. He has faithfully supported many alumni and scholarship efforts and currently serves on the MMAE advisory board.

Honors: Illinois Export Achiever of the Year, Illinois Department of Commerce (1987-88)

IIT Memory: “My very first assignment while working as an engineer for IIT was the fire reconstruction job in Main Building. The cost of the job ended up being very high, so we had to replace the steeple roof with a truncated surface. I always felt that I helped make a mark that would probably outlive me with that flat roof, but now I hear that fixing the steeple is part of the new Main renovation plans.”

Advice for Students: “Stay focused on the basics—you’re there to learn the fundamentals. Take every problem that you encounter as a chance to test your ability to apply those skills.”



Martin Cooper

EE '50, M.S. '57

Degrees: B.S. ('50) and M.S. ('57) Electrical Engineering, Illinois Institute of Technology

Career: Executive chairman and co-founder, ArrayComm Inc., the leading provider of smart antenna technology; served in executive roles for 29 years at Motorola, where he conceived of and created the cellular telephone, improved mobile telephone service, high-capacity paging, and trunked land-mobile systems

Honors: Member, National Academy of Engineering; Laureate, Prince of Asturias—Science and Technology; Inaugural Member, Wireless Hall of Fame

Also Known As: the Father of the Cellular Phone

Cooper's Law: Cooper coined the prevailing law that states: "Since the invention of the telegraph in 1897, every 30 months the amount of information that can be transmitted over the useful radio spectrum doubles."

IIT Memory: "Toughing it out in Professor George Cohn's challenging classes. There were so many smart people at IIT!"

Inspiration: "Working with John Mitchell and Bob Galvin at Motorola. They shared my conviction and dream that someday everybody in the world would have a cell phone. It took a lot of guts for them to invest in such a wild project!"

Favorite Phone Call: "When I made the first cell phone call ever made by anyone. I called AT&T to let them know that Motorola had beat them to the punch in developing the first hand-held mobile phone."

Future: "My wife and I are working to develop a cell phone device that can take life-saving measurements to help predict, prevent, and monitor a person's health, and could assist those with diseases like diabetes."

Advice for Students: "Being a symbiote has worked for me—absorb everything in life!"



Kunihiro Misu, JIA SIA

M.S. ARCH '66

Degrees: Bachelor of Engineering in Architecture ('63), Tokyo Institute of Technology; M.S. Architecture ('66), Illinois Institute of Technology; Hon. Ph.D. ('97), Barat College at Lake Forest

Career: 40 years at Nikken Sekkei Ltd., the largest architecture firm in the world; visiting lecturer, School of Architecture, Tokyo Institute of Technology; architect, Skidmore, Owings and Merrill, Chicago

Honors: 2009 recipient of the Commendation from the Minister of Land, Infrastructure and Transport for distinguished contributions to the development of the construction industry in Japan; 1996 recipient of the ARCASIA Award for Architecture for design of the Dunhuang Cave Cultural Asset Preservation Research & Exhibition Center

Service: President and key leader of several government and industry councils including the Federation of Architectural Firms of Japan and the Tokyo Association of Architectural Firm; member, IIT International Board of Overseers; president, IIT Alumni Association in Japan; chair, Asian Alumni Council organizing committee for the Tokyo meeting in 2007

Why IIT: "I came a long way to attend IIT, because I wanted to learn Mies van der Rohe architecture in his masterpiece S. R. Crown Hall."

Thanks to IIT: "My experience at IIT broadened my view and helped me think differently."

Most Proud of: "Completing 50 construction projects in 15 countries during 45 years of my practice as an architect."

Inspiration: "Being in nature."

Advice for Students: "Try to concentrate on and master one thing."