

ECC Active Members 2013

CORNELL ENGINEERING

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Elizabeth J. Altman is a doctoral student in Management at the Harvard Business School. Previously, Altman was vice president of business development in Motorola's Mobile Devices business. For 18 years, she served in various executive and leadership positions, including roles in industrial design, product development engineering, manufacturing, marketing, and strategy. Altman's main areas of expertise include business and innovation strategy, business development, M&A, equity investing, developing and managing strategic alliances and technology licensing. Altman earned dual graduate degrees in mechanical engineering and management as a fellow in MIT's Leaders for Manufacturing Program. She earned her undergraduate degree in mechanical engineering from Cornell University and serves on the Cornell University Board of Trustees and the President's Council of Cornell Women.



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James M. Becker is a corporate senior vice president of Skanska USA Building, part of Skanska AB, a global construction company. He is responsible for overseeing the consulting services of this unit and serves as an account manager with several clients in the higher education market. He recently finished an assignment with Skanska AB for intra-business unit information sharing. Previously, Becker was the president and CEO of Beacon Skanska Inc. (now Skanska's New England office), which was sold to Skanska by Beacon Properties in 1997. Several of Becker's projects, including Sage Hall at Cornell, have been awarded the national AGC "Build America" Award, one of the construction industry's highest honors. He was a professor in Civil and Environmental Engineering and the Center of Real Estate at MIT.



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Daniel S. Bernstein is the owner of Alexander Wolf & Son a general contracting firm specializing in interior renovations in New York City. The company was founded in 1905 by Daniel's grandfather. They have upgraded and modernized many of the city's iconic buildings including Rockefeller Center, the Empire State Building, the original World Trade Center and the United Nations campus. Daniel is a member of the Board of Trustees of the Solomon Schechter School of Manhattan, the Park Avenue Synagogue, the Jewish Homecare Network, and the Affinity Insurance Company. Daniel is now in the midst of training his two children both of whom graduated from Cornell, Peter '03 B.S. from the College of Engineering and MBA from NYU '06 and Michelle '07 B.A. from the College of Arts and Sciences and MBA University of Miami '12 to be the fourth generation of family owners of Alexander Wolf & Son.



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Ronald Black has more than 20 years of experience managing businesses and running companies in global semiconductor and mobile markets. As president and CEO of Rambus, he provides the overall vision and leadership necessary to drive future growth for the company. Prior to Rambus, he held positions of chief executive officer for MobiWire, formerly Sagem Wireless; UPEK, which later merged with AuthenTec; and Wavecom, a publicly-traded French wireless solutions company. In addition, he has served as executive vice president of the Client Systems Group at Agere Systems, as well as holding a number of senior executive roles at other companies, including Motorola and IBM Microelectronics.



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Joseph Bonventre is the Samuel A. Levine Professor of Medicine at Harvard Medical School. He is Chief, Renal Division and Chief, Division of Bioengineering of Brigham and Women's Hospital, Harvard Medical School; former director of the Brigham Research Institute Stem Cell, Regenerative Medicine and Tissue Engineering Center; former co-director, Harvard-MIT Division of Health Sciences and Technology; founding director of the Kidney group and now a member of the executive board of the Harvard Stem Cell Institute. Dr. Bonventre is a member of the board of directors of the National Space Biology Research Institute and AMAG Pharmaceuticals. He is the past-President of the American Society of Nephrology and is a member of the ASN council. His research focuses primarily on the study of kidney injury and repair, with special emphasis on the role of biomarkers, inflammation and stem cells.



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Lance R. Collins is the Joseph Silbert Dean of Engineering. He served as the S. C. Thomas Sze Director of the Sibley School of Mechanical and Aerospace Engineering from 2005 to 2010. He joined Cornell in 2002, following 11 years on the Chemical Engineering faculty at Pennsylvania State University. Collins was part of the Cornell leadership team that won the bid to partner with New York City to build a new campus focused on innovation and commercialization in the tech sector on Roosevelt Island. His research combines simulation and theory to investigate a broad range of turbulent flow processes, including the motion of aerosol particles in turbulence, mixing and chemical reactions in turbulent flames, turbulent breakup of drops and drag reduction due to polymer additives. He is a fellow of the American Physical Society, chairs the U.S. National Committee on Theoretical and Applied Mechanics, and serves on the Division on Engineering and Physical Sciences, the latter two committees operating under auspices of the U.S. National Academies.



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After completing his Cornell education, Robert A. Cowie spent two years as an aerospace engineer and then joined C&M Spring Company, a truck components manufacturer, where he became president in 1963. Dana Corporation acquired C&M in 1970. Cowie became vice president and general manager of Dana's Spicer Front Drive Systems Division in 1976, and from 1979 to his retirement in 1990, he was corporate vice president for public affairs. In 1996, Cowie became a trustee emeritus and presidential councilor of Cornell University after completing 23 years of board service, including 15 years as chair and co-chair of the Committee on Alumni Affairs and Development. He also was co-chair of the Cornell Campaign, which raised \$1.5 billion for the university between 1990 and 1995. Cowie is an emeritus member of the Johnson School Advisory Council and a trustee of the Johnson Trust.

**SARAH T. FISCHELL**

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Sarah T. Fischell has spent her career in telecommunications planning and medical device innovation and nonprofit management. Much of her 20 years with AT&T was devoted to technology and services planning for business voice and data networks. More recently, Fischell supported several medical device start-up companies in financial management and intellectual property management roles. She is largely retired from technology-related pursuits. She is an emeritus director of the Cornell Engineering Alumni Association and she serves on the boards of a number of local non-profit organizations. Sarah is married to David Fischell '75, and they have two children, Erin '10 and Jennifer '13.

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Samuel C. Fleming is managing director of Briland LLC, which specializes in health-care investments, and manages the Fleming family investment and philanthropic interests. He is chairman emeritus of Decision Resources Inc., the leading global strategic research and advisory firm focused on the biopharmaceutical, medical device, and health insurance industries. From 1990 through 2003, he served as the chairman and CEO of the firm. Earlier, he was president of Arthur D. Little Decision Resources, which he founded. Fleming is a member of the board of overseers of Weill Cornell Medical College and is an emeritus member of the Cornell Board of Trustees, where he was vice-chair of the board. He is a board member of the Massachusetts Eye and Ear Infirmary, the Commonwealth Fund, and the Picker Institute.

**GREGORY J. GALVIN**

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Dr. Galvin is Chairman and CEO of Rheonix, Inc., a company developing microfluidic-based molecular diagnostic systems. He is also interim CEO of Mezmerize, Inc. an early stage MEMS device company. Until 2013 Dr. Galvin was the President and CEO of Kionix, Inc., a MEMS company he co-founded in 1993. He currently serves on the boards of Rheonix, Mezmerize, and BinOptics. Dr. Galvin was elected to the Cornell University Board of Trustees in 2011; he also serves on the Advisory Council of Cornell's College of Engineering. He has a B.S. in Electrical Engineering from the California Institute of Technology, a Ph.D. in Materials Science and an M.B.A. from Cornell University.

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Virginia Giddings has more than 25 years' experience in healthcare, with leadership roles in medical device, pharmaceutical, and nutrition businesses. Currently, she heads Strategic Research and Development at Abbott Nutrition. At Abbott, she previously led development of ABSORB, a bioabsorbable cardiovascular scaffold, which received the *Wall Street Journal* 2011 Innovation Award for Medical Devices. A patent agent, she had IP strategy roles with Johnson & Johnson and Advanced Stent Technologies, a start-up acquired by Boston Scientific. She serves on the Executive Committee for the Center for Nutrition, Learning, and Memory at the University of Illinois and on the President's Council of Cornell Women. She founded MedtechWomen, an organization advancing women in leadership in healthcare. Virginia received her Ph.D. in Biomechanical Engineering from Stanford University.



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Michael's current areas of interest include infrastructure, energy, semiconductors and internet. He currently leads Sequoia's investments in C12 Energy, Clickatell, Click Security, Infoblox, OpenDNS, Quantenna, R2 Semiconductor, Synapsense, ThinkFinance, Tula Technologies, and Virident. He previously was on the board of Ardent, Avanex, Ikanos, Litepoint, Loglogic, Maxcomm, Monterey Networks, Navini Networks, Netiverse, Netscreen, Pipelinks, Santera, Spatial Wireless, Syndesis, Versatile Optical, Yago Systems, and led Sequoia's investments in Redback Networks, Softcom Microsystems and Vital Signs Software. Prior to Sequoia Michael spent 10 years in various engineering, research, and product management roles at DEC, SynOptics and Centillion, and was a director of Engineering at Bay Networks. Michael has a B.S. in Electrical Engineering from Cornell University and M.S. in Electrical Engineering from Stanford University.



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Kent Goklen is the Director of Downstream Process Development at GlaxoSmithKline Biopharm R&D in King of Prussia, PA, with responsibility for the process development, scale-up and tech transfer of purification processes for biopharmaceuticals. Kent joined GSK in 2008, after retiring from the Merck Research Laboratories, where he had led a team in the BioProcess R&D organization. While at Merck, he played a key role in the development and demonstration of processes for Mevacor/Zocor™ and Cancidas.® Kent has a B.S. from Cornell University and M.S. and Ph.D. degrees from MIT, all in Chemical Engineering. Kent is a Fellow of the American Chemical Society, where he is active in the Division of Biochemical Technology, and is Adjunct Professor of Chemical and Biomolecular Engineering at Cornell University.



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Ken Goldman is Chief Financial Officer of Yahoo!. In this role, he is responsible for Yahoo!'s global finance functions including financial planning and analysis, controllership, tax, treasury, and investor relations. Most recently, he was CFO of Fortinet. He served as senior vice president, finance and administration, and chief financial officer of Siebel Systems, Inc. and Excite@Home Corporation and Sybase, Inc. Mr. Goldman was named among "America's 15 Most Connected Capitalists" for 2010 by Forbes magazine and currently serves on the board of directors of Yahoo! Japan, Infinera, Inc., NXP Semiconductor and several private companies. He was formerly a member of the board of trustees of Cornell University and the Treasury Advisory Committee on the Auditing Profession. He also previously served on the FASB's primary advisory group, the Financial Accounting Standards Advisory Council.

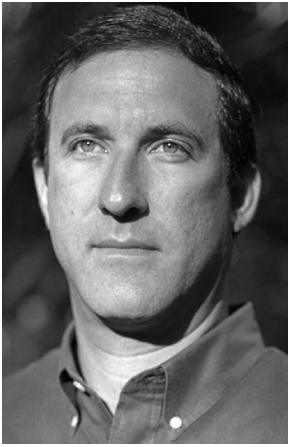


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Frank L. Huband is vice president for operations and general counsel for the World Technology Evaluation Center. He recently retired as the chief executive officer of the American Society for Engineering Education, a 13,000-member professional society for engineering educators and institutions of engineering and engineering technology. Formerly, Huband was the director of the U.S. National Science Foundation's Electrical and Communication Systems Division. He joined NSF in 1976 and has held various positions there, including that of head of the Technology and Resources Policy Section, director of the Emerging Engineering Technologies Division, and director of the Electrical and Communication Systems Division. He has served on the faculty of the Electrical Engineering and Mathematical Sciences departments at Rice University.



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Andy Kessler is the author of several books on technology and markets, including *Wall Street Meat* and *How We Got Here*. Cornell and University of Illinois Electrical Engineering degrees led to designing chips at Bell Labs. Kessler was an Institutional Investor All Star analyst for PaineWebber and Morgan Stanley and was a founder of the hedge fund Velocity Capital. He writes for the *Wall Street Journal* op-ed page, *The New York Times*, *Forbes*, *The Weekly Standard*, and *New York Magazine* and has appeared on CNBC, Yahoo Finance Tech Ticker, CNN, and Fox.



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Brian Kushner is a senior managing director at FTI Consulting, specializing in interim/turnaround management. A serial entrepreneur, Kushner was co-founder of CXO (FTI acquired CXO in December 2008) and founder of its predecessor, BGKC LLC. Kushner is also the CEO of Sage Telecom; previously he was CEO of Pacific Crossing Limited, a trans-Pacific carrier. Since 1999, Kushner and his CXO partners have bought or sold 15 companies, and he has served as CEO or chief restructuring officer at more than 20 companies. Previously, Kushner founded Recompute and helped restructure MCC and BSG under BGKC. From 1982 to 1992, Kushner was with BDM International, a defense systems integration firm, where he was responsible for troubled projects, certain classified programs, and most DARPA-related business.



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Charles R. Lee is retired chairman and co-CEO of Verizon Communications. He was previously chairman, CEO, and a director of GTE Corporation. He began his career in 1964 with the United States Steel Corporation, where he held financial and management positions until 1971. Subsequently he was senior vice president of finance at Penn Central and at Columbia Pictures Industries. Lee is a director of DIRECTV Group, a board member of Marathon Petroleum Co., United Technologies Corporation, and US Steel. He is a retired Director of Proctor and Gamble and United Technologies. He was a member of the President's National Security Telecommunications Advisory Committee and the Advisory Committee to the President's Commission on Critical Infrastructure Protection. He is a trustee emeritus and presidential councilor of Cornell and on the board of overseers of Weill Cornell Medical College.



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Ivan L. Lustig is the Managing Partner of Dover Madison Capital Management, a private equity firm focused on mid-market North American companies. Mr. Lustig has over 30 years of experience as an investment banker specializing in mergers and acquisitions and financings having worked on over \$200 billion of transactions. He was most recently a Senior Managing Director at Duff & Phelps and was, prior to that, Head of M&A in the Americas for The Royal Bank of Scotland, and Head of M&A in North America for predecessor firm ABN AMRO. Lustig graduated from Cornell University with a B.S., M. Eng., and M.B.A. as a Knight Scholar. Lustig is also Vice Chairman of the Museum of the Moving Image in New York City, a member of the Cornell Engineering College Council, an Advisory Board Member of Cornell's Financial Engineering Graduate Program, and a Board Member of ARIF, a private foundation.



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James M. McCormick is a founder and president of First Manhattan Consulting Group. In more than 25 years of consulting, he has built expertise in disciplines ranging from strategy to acquisitions to marketing to management information systems; he consults for banks, other financial service firms, and technology companies. McCormick has given testimony to the U.S. Senate Banking Committee and has appeared more than 200 times as a speaker before various industry groups. He has appeared on several television venues and has been quoted in publications including the *Wall Street Journal*, *The New York Times*, *Institutional Investor*, *The Economist*, *Forbes*, and *Fortune*. He serves on the board of directors of Teach for America and as a board member and member of the executive committee for Mercy College.



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Dr. Morel has served as Chief Executive Officer of West Pharmaceutical Services, Inc. since April 2002 and Chairman of the Board since March 2003. He joined West in 1992 as Director of Research and Development and was promoted to Vice President R&D in 1993. In this role, Dr. Morel spearheaded West's efforts to develop novel and propriety drug delivery technologies. In 1998 he was promoted to Group President, heading sales, marketing and operations of West's medical device and pharmaceutical components business globally. In 1999, Dr. Morel became President of the new Drug Delivery Division and in April 2001, President and Chief Operating Officer. His aerospace work in the 1980s resulted in his selection as a finalist for assignment as a NASA Mission Specialist in the Astronaut Office in 1989. Dr. Morel holds a B.S. degree in Engineering from Lafayette College, an M.S. in Materials Science and a Ph.D. in Materials Science and Veterinary Medicine from Cornell University.



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Howard Morgan is co-founder and partner in First Round Capital, a seed stage venture capital investment firm specializing in information technologies. He began working with Idealab in 1996 and serves on its board. He has more than 30 years of experience with more than 200 high-tech entrepreneurial ventures. He serves on the boards of Fab.com, Single Platform, GumGum, Energy Innovations, and other private companies. After receiving his ORIE Ph.D., Morgan joined the Cornell faculty as assistant professor of Operations Research and then professor of decision sciences at the Wharton School of the University of Pennsylvania and professor of computer science at the Moore School for almost 15 years. He is a trustee of Cold Spring Harbor Labs and Math For America and is a respected author. Morgan received his B.S. from the City University of New York in 1965.



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John P. Neafsey is president of JN Associates, an investment consulting firm. Neafsey serves as chairman of Alliance Resources. He is also a director of West Pharmaceutical Services Company. He previously served as president and CEO of Greenwich Capital Markets and, prior to joining Greenwich, was an executive vice president of Sun Company. He also was CFO and a member of the Sun board and subsidiary companies. He was twice selected by *Institutional Investor* as the outstanding oil industry CFO. He is a trustee emeritus and a presidential councilor of Cornell University. Neafsey was first elected a trustee in 1984, served for 16 years, and chaired several committees. He is on the Johnson School Advisory Council and is an overseer at Weill Cornell Medical College, serving on the budget and finance committee. He is a director and president of The Cornell Club of New York City.



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Armando J. Olivera is president and CEO of Florida Power & Light Company, one of the largest investor-owned electric utilities in the nation and a subsidiary of NextEra Energy Inc. Olivera joined FPL in 1972 and was named to his present position in 2003. During his tenure as CEO, Olivera has led a multi-year, multi-billion-dollar capital investment program that has resulted in FPL's 4.5 million customers enjoying service that is among the nation's most reliable and affordable while FPL has become among the cleanest generators of electricity. FPL's carbon dioxide emissions rate is 36 percent lower than the industry average. Olivera is a director of Nicor Inc. and a member of the board and a past chairman of the Florida Reliability Coordinating Council. He is a member of the board of Enterprise Florida and a member of the Florida Council of 100. He is also a member of the Cornell University Board of Trustees.



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Evelyn Taylor Pearson, currently an organizational capability manager at BP, has spent her career in the petrochemical and refining industries. She has had a number of leadership roles in technology and manufacturing for chemical businesses. In her current role, Pearson works with the BP-owned refineries and functional groups to benchmark and develop highly effective site organizations and staff to plan and execute capital projects and turnarounds. She holds a U.S. patent and has been published in the *Journal of Catalysis*. She currently serves on the programming board and as the engineering representative to the Cornell Club of Chicago and has assisted planning for Chicago-area Mosaic events; she is a past member of the President's Council of Cornell Women. Pearson was the 2007 Raymond G. Thorpe Lecturer for the School of Chemical and Biomolecular Engineering at Cornell.



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Justin Rattner is vice president and chief technology officer of Intel Corp. He is an Intel senior fellow and managing director of Intel Labs where he oversees Intel's global research efforts in virtually all aspects of information and communications technology. Rattner is responsible for funding exploratory academic research through the company's seven multi-institution, Intel Science and Technology Centers in the U.S. and its five Intel Collaborative Research Institutes at selected locations around the world. In 1989 Rattner was named Scientist of the Year by *R&D Magazine* for leadership in parallel and distributed computer architecture. In December 1996, he was featured as "Person of the Week" by ABC World News for his work on the Department of Energy's ASCI Red System. He sits on the board of trustees for the Anita Borg Institute for Women and Technology and serves as Intel's executive sponsor for Cornell University.



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James Ricotta has more than 25 years of experience in the information technology field as CEO, board member, and Fortune 500 division GM. He is president and CEO at Verdasy. Previously, he was CEO and president at DataPower Technology, Azuki Systems, and SightPath, Inc. He has also been a vice president and business unit general manager at IBM and Cisco Systems. His functional experience includes engineering, product management, marketing, sales, and general management. He has built management teams, brought products to market, acquired marquee customers, and enjoys a long track record of growth within his positions. He has successfully built and sold companies in emerging markets to Cisco and IBM for \$800 million and \$100 million respectively. He holds an MBA from Harvard and received an Emmy Award in 1992 for his work on Avid Technology's digital video editing system.

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Robert W. Shaw Jr. is managing director of Aretê Venture Management, which advises and invests in alternative energy companies. Until his retirement in 2010, he was president of Aretê Corporation, a venture capital firm focused on small-scale energy systems. Aretê managed SC Green Tech Ventures for Sumitomo Corporation, and the Micro-Generation Technology Fund for a group of electric utilities. Earlier, Shaw was founder and president of Aretê Ventures, serving as managing partner of the five Utech Funds. Shaw has served as a special limited partner and on the investment committees of several international venture funds. Previously, he was a senior vice president and a member of the board of directors of Booz, Allen & Hamilton. He is a member and past chairman of the Department of Energy's Hydrogen Technology Advisory Committee, and a trustee of the Society for Science and the Public.

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Dan Simpkins founded Hillcrest Labs in 2001 to create a revolution in entertainment. Prior to Hillcrest, he was vice president and general manager of the SALIX Switching Division of Tellabs Inc., established in 2000 when Simpkins sold voice-over-IP leader SALIX Technologies, a company he founded in 1990, to Tellabs. Simpkins currently serves on the board of advisors of Launchbox Digital, an early-stage investment firm focused on startups. He also sits on the board of advisors of several high-tech companies and is a member of CEA and IEEE. In 2008, Simpkins was recognized by *The Gazette of Politics and Business* as one of the top 25 CEOs in the Washington, D.C., area and Hillcrest Labs was recognized as one of the "Exceptional 53" companies in the State of Maryland, as well as a 2008 Future 50 company by SmartCEO.

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Robert F. Smith is the Founder, Chairman and CEO of Vista Equity Partners LLC. Vista currently manages equity capital commitments of approximately \$6 billion and focuses exclusively on the software industry. Previously, Smith worked for Goldman Sachs, M&A, in New York and Silicon Valley. As co-head of Enterprise Systems and Storage, he executed and advised on more than \$50 billion in merger and acquisition activity for Apple, Microsoft, Texas Instruments, Ebay, and Yahoo. From 1986 to 1992, Smith worked for Kraft. He is the principal inventor on two United States and two European patents. Smith was awarded his MBA from Columbia Business School. Smith received the 2010 Ripple of Hope Award and is a board member of the Robert F. Kennedy Center and a trustee of the Boys and Girls Clubs of San Francisco. Smith is also an avid fly fisherman.

**ELISSA STERRY**

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Elissa Sterry started her career with Exxon Chemical Company in information management. She subsequently held a variety of positions and in 1996 was appointed General Manager for the Polymers Applications Business Unit. She was promoted to Vice President in 1999, in charge of the worldwide Ethylene Elastomers Business. In 2002, she was named Deputy Manager of Public Affairs and later that year, was appointed manager, Economics and Energy, becoming a recognized speaker on ExxonMobil's outlook for energy and energy-related issues. In 2004, Elissa was appointed manager, Business Planning and Support, for the ExxonMobil Gas and Power Company. In 2006, she was appointed Vice President Global Oxo. In June 2007, the Oxo and Fluids Global Business Units consolidated into the Intermediates Business Unit and Elissa was appointed to the position of Vice President, Intermediates, ExxonMobil Chemical Company.



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Duane J. Stiller is president of Woolbright Development. He founded Woolbright in 1985, establishing industry knowledge, personal service, and innovation as core values. Stiller built the company into one of the fastest growing retail real estate companies in Florida. Historically, Woolbright's typical projects consisted of redevelopments of existing shopping centers in metro areas. Recently, ground-up developments have been added and this successful combination has helped make Woolbright one of the largest acquirers, managers, and owners of retail real estate in Florida. Stiller began his career with Traveler's Asset Management International Corporation as director of property management. He also co-founded The Sterling Companies in 1993. Stiller is a licensed real estate broker and licensed general contractor.



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Sherri Stuewer retired after 36 years with Exxon Mobil Corporation. In her final assignments she was Vice President for Safety, Health & Environment and Vice President for Environmental Policy & Planning. Over her career, she held a variety of technical and managerial assignments in refining, planning, and logistics, including general manager of the Exxon Company U.S.A. Supply Department and manager of the Exxon Refinery in Baytown, Texas. Ms. Stuewer is an Emeritus Trustee of Cornell University and has served on multiple non-profit boards. She is a past chair of the Industry Advisory Board to the International Energy Agency.



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John A. Swanson is president of Swanson Analysis Services, a finite-element consulting firm. He is the founder of ANSYS, served as president for more than 20 years, and was its chief technologist until his retirement in 1999. Swanson is internationally recognized as an authority and innovator in the development and application of finite-element methods to engineering. He founded Swanson Analysis Systems (now ANSYS) in 1970 to develop, support, and market the ANSYS program, a finite-element software code widely used in the computer-aided engineering industry. Prior to that, Swanson was employed at Westinghouse Astronuclear Laboratory. In 2009, he was elected a member of the National Academy of Engineering. He was awarded the John Fritz Medal in 2004. He is on the Board of Trustees of the University of Pittsburgh, and served 12 years on the Board of Trustees of Washington and Jefferson College.



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Renu is responsible for the technical and operational strategic direction and ongoing management of all television functions across the U.S. Domestic Disney Channel, Disney XD, Disney Junior, SoapNet, ABC Family, Disney ABC Domestic Television (Syndication), Radio Disney, Equity Network portfolio relationships, shared services, post production, mastering, engineering, and technical services. Renu also provides support and collaborates with teams in Europe, the Middle East, Africa, Asia Pacific, Japan, and Canada. Previously, Renu was the Vice President of Operations for ABC News, responsible for setting the overall strategy and leading the operations for studios, control rooms, editing, and graphics for all ABC News programs and special events. She was involved in a variety of strategic projects to help prepare ABC News for the future including deploying new technology, and improving production and business processes.



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David F. Welch co-founded Infinera, a leading supplier of optical systems based on innovative photonic integrated circuit technology. He served as CTO, CMO, CSO, and EVP before his appointment as President in June 2013. Previously, he was CTO and VP Corporate Development at SDL. Dr. Welch holds over 130 patents and has published more than 250 articles. His awards include the 1992 Adolph Lomb Award from OSA, the 1998 Engineering Achievement Award from LEOS, the 1999 OSA Joseph Fraunhofer/Robert M. Burley Award, the 2011 OSA John Tyndall Award, and more than 17 product of-the-year awards at SDL, and the 2013 IET J J Thompson Medal for Achievement in Electronics. He is a fellow of IEEE and of OSA. In 2010, he founded Students Matter, whose mission is to pursue impact litigation to improve access to a quality education for all K-12 students.



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As director of Boeing Research and Technology, Susan Ying leads a team of world-renowned scientists and engineers to provide innovative solutions to address a variety of challenges unique to Boeing Company. Prior to this role, Ying held various leadership positions in multiple business units and locations. She also taught at universities and directed research in U.S. Department of Energy research labs and the NASA Ames Research Center, and earned a spot as a NASA astronaut candidate finalist. Ying is a fellow of the American Institute of Aeronautics and Astronautics and serves on its board of directors. She is also a member of the executive committee of the International Council of Aerospace Science, and the Technology and Innovation Committee of the NASA Advisory Council. Ying received her Ph.D. from Stanford University, and is Boeing's executive focal there.



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Todd C. Zion founded SmartCells, Inc. in 2003 to develop SmartInsulin™, the first glucose-regulated, injectable formulation for treating diabetes. As SmartCells' president and CEO, He was instrumental in raising \$10 million in equity financing from individual investors and \$10 million in grants to support research and clinical development. In December 2010, Merck and Co. acquired SmartCells for over \$500 million in cash and clinical milestone payments. He developed the SmartInsulin™ technology as part of his doctoral thesis work at MIT. Prior to enrolling at MIT, he worked as a polymer development engineer at Eastman Kodak. He now enjoys advising technology entrepreneurs through MIT's Venture Mentoring Service. He also serves on a number of advisory boards including those of the Beth Israel Deaconess Medical Center and the CNY Biotech Accelerator.

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