

**ECC**  
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**2010–2011**

**CORNELL ENGINEERING**

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Elizabeth J. Altman is vice president of business development in Motorola's Mobile Devices business. She leads a team responsible for identifying partners, developing relationship strategies, and executing and managing a wide range of deals in support of Motorola's product and service strategies. Prior to this role, Altman was responsible for strategy and business development in the Consumer Products group of Motorola's Mobile Devices business where she led a team developing and executing business strategy and managing relationships with key partner companies. During her career at Motorola, Altman has held roles in industrial design, product development engineering, manufacturing, marketing, and strategy. Her main areas of expertise are business and innovation strategy, business development, M&A, equity investing, developing and managing strategic alliances, and technology licensing.

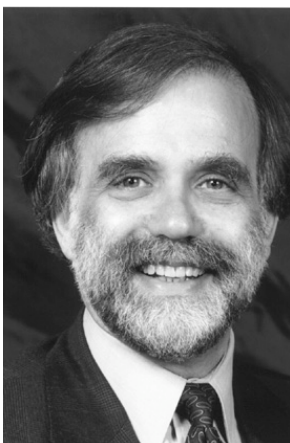


**KENNETH E. ARNOLD**  
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Kenneth E. Arnold was the founder and CEO of Paragon Engineering Services in Houston. In 2005, the company was sold to AMEC plc, a U.K.-based international project management and services company, and Arnold retired in 2007. He is co-author of two textbooks, several chapters in technical books, and more than 50 technical articles. Arnold has been active in the Society of Petroleum Engineers as the first technical director of facilities and construction, the editor of the facilities portion of the *Petroleum Engineering Handbook*, a distinguished lecturer, and is currently vice president of finance. He is a member of the Marine Board of the National Research Council, the National Academy of Engineering, and a member of the board of the Academy of Medicine, Engineering, and Science of Texas.



**JAMES BECKER**  
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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 AON "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.



**RONALD D. BLACK**  
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Ron Black resigned as CEO of Wavecom in March 2009, after Sierra Wireless acquired the company in a friendly takeover announced in December 2008. Founded in 1993, Wavecom is a leading provider of embedded wireless technology for machine-to-machine communication. Their solutions are used in such applications as automotive telematics, smart metering, fleet management, GSM/GPS/satellite tracking, and wireless alarms. Prior to Wavecom, Black was executive vice president of the Client Systems Group at Agere Systems, a leading provider of advanced integrated circuit solutions for consumer applications. Previously, he was vice president at Gemplus in France, serving as general manager of the next-generation networks business unit. He has also served as general manager for the Motorola's networking and communications systems division and has held a number of positions at IBM Microelectronics.



**JOSEPH V. BONVENTRE**  
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Joseph V. Bonventre holds appointments as the Robert H. Ebert Professor of Medicine and Health Sciences and Technology at Harvard Medical School and MIT. A specialist in kidney diseases, his research focuses primarily on the study of kidney injury and repair, stem cells, and signal transduction, with a special emphasis on the role of inflammation, biomarkers, and phospholipases A2 enzymes. Bonventre has authored more than 200 original publications and 100 invited chapters and reviews and has received a MERIT award from the National Institutes of Diabetes and Digestive Disorders. Bonventre is on the board of directors and is past president of the Massachusetts, Rhode Island, New Hampshire, and Vermont affiliate of the National Kidney Foundation, and has received that chapter's Outstanding Physician Award.



**MEI-WEI CHENG**  
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Mei-Wei Cheng is currently a senior consultant to Ford Motor Company. He has previously served Ford as group vice president, corporate vice president, and executive chairman and CEO of Ford Motor (China) Ltd. Cheng joined Ford in January 1998 from the General Electric Corporation, where he was a corporate vice president and regional executive and president of GE Appliance-Asia. Prior to this he was a corporate vice president of General Electric Company and chairman and CEO of GE (China) Ltd. Cheng started his career in 1972 with AT&T, first as a plant engineer, and eventually became president of AT&T China. While president of AT&T China, Cheng was instrumental in establishing a major presence for AT&T in China. .



**ROBERT A. COWIE**  
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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 serves on the board of the Cornell Engineering Alumni Association and on the boards of several community nonprofits.

**SAMUEL C. FLEMING**

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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 chairs the Cornell Life Science Advisory Board and 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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Gregory J. Galvin is president and CEO of Kionix Inc. (Ithaca, N.Y.), which he founded in 1993 to commercialize a novel micromechanical technology pioneered by researchers at Cornell. The company's optical business was acquired by California-based Calient Networks in December 2000 and Galvin served as president and CEO of the newly formed Calient Optical Components until 2002 when he returned to Kionix. Previously, he served Cornell for nine years, first as deputy director of the Cornell Nanofabrication Facility and later as director of corporate research relations, focusing on technology transfer. He has published more than 20 technical papers and holds 58 patents. Galvin is a member of the Cornell University Council and serves as a director of the Boyce Thompson Institute for Plant Research, Tompkins County Area Development, the Kensa Group, the El Portal de Belén Foundation, and Ithaca's Sciencenter.

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Michael Goguen is a managing partner at Sequoia Capital. Sequoia Capital was an original investor in Google, Yahoo, YouTube, PayPal, Flextronics, Network Appliance, NVIDIA, Netscreen, Cisco, Oracle, and Apple Computer. He is the global head of Sequoia's cleantech investment efforts, which are particularly focused on finding capital efficient cleantech business with strong IP. Goguen is also active in semiconductor, systems, and Internet business and has served on the boards of more than 40 Sequoia companies. Prior to joining Sequoia Capital in 1996, he 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 (NT). Goguen also served as a technical chairman of the ATM Forum.





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Geoffrey S. M. Hedrick has been chairman of the board of Innovative Solutions & Support since 1997 and has served as its chief executive officer from the time he founded the firm in February 1988. Previously, Hedrick served as president and chief executive officer of Smiths Industries North American Aerospace Companies. He also founded Harowe Systems in 1971, which was subsequently acquired by Smiths Industries. Hedrick holds patents in the electronics, optoelectric, electromagnetic, aerospace, and contamination-control fields. Innovative Solutions and Support is recognized as one of the aviation industry's leading designers and manufacturers of advanced flight avionics, known for successfully migrating technologies originally developed for the computer and telecommunications industries into applications for commercial, military, and business aviation.

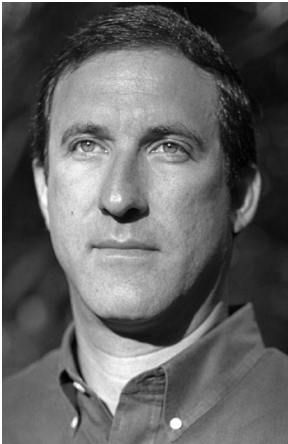


**FRANK L. HUBAND**  
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Frank L. Huband is the chief executive officer of the American Society for Engineering Education, a 13,000-member professional society for engineering educators and institutions of engineering and engineering technology. He also serves as the Secretary General of the International Association for Continuing Engineering Education and the International Federation of Engineering Education Societies. 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 at 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 Electrical Engineering and Mathematical Sciences at Rice University.



**ANDY KESSLER**  
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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.

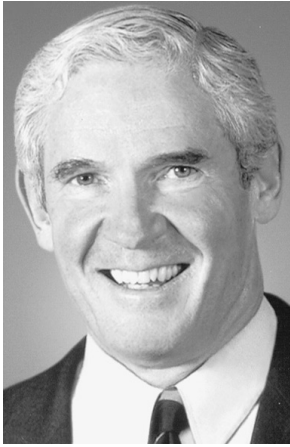


**SHAYGAN KHERADPIR**  
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Shaygan Kheradpir is executive vice president and chief information officer for Verizon Communications. He is responsible for all information technology initiatives for Verizon's business units. Previously, Kheradpir was senior vice president and chief information officer for Verizon Telecom, with oversight of all information technology initiatives for Verizon's wireline unit, leading the technology development and innovations supporting the roll-out of Verizon's all-fiber network and Verizon's FiOS broadband, voice, and video services. Kheradpir is a member of the Cornell University Council. He is also on the board of directors of the YMCA of Greater New York. In 2007, *CIO Magazine* named Kheradpir a member of the CIO Hall of Fame, for contributions to business and society through leadership in the development, management, and use of information technology.



**CHARLES F. KNIGHT**  
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Charles F. Knight is chairman emeritus of Emerson, a technology-based global manufacturing company. During his 27 years as CEO, Knight spearheaded Emerson's evolution from a domestic manufacturer to a leading global technology and solutions provider. In this period, Emerson's sales increased more than 16-fold and net earnings increased 18-fold. Emerson's record of increased earnings per share and increased dividends during Knight's tenure as CEO is among the longest for consistent performance in U.S. business. He stepped down as CEO in 2000 and as chairman in 2004. His book, *Performance without Compromise: How Emerson Consistently Achieves Winning Results*, was published in 2005. Widely recognized for his management expertise, Knight also has a history of community service spanning more than 30 years, including support of public schools and institutions of higher learning.



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Gretchen Knoell is a partner with Lake Street Capital. Prior to founding the company in 2003, she spent 18 years primarily in investment banking and corporate development. During this period, she served as vice president of business development at Digital Island Corporation, as senior managing director of corporate finance, co-heading the West Coast Technology Group at Bear Stearns & Co., and as head of corporate finance at Punk, Ziegel & Knoell, a specialty investment bank committed to emerging growth companies that she co-founded in 1990. Knoell started her investment banking career in 1985 with Needham & Company. As an investment banker, she led the successful completion of billions of dollars of IPOs and mergers and acquisitions. Previously, she was an engineer with Exxon Corporation.



**BRIAN KUSHNER**  
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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.



**CHARLES R. LEE**  
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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, Marathon Oil, United Technologies Corporation, US Steel, and the Procter & Gamble Company. 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.

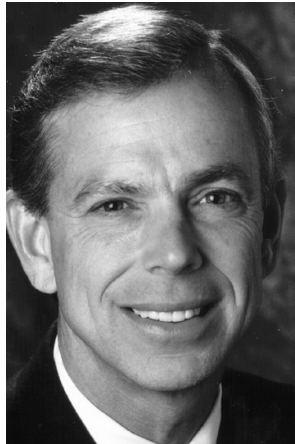


**CHRISTINE M. MAZIAR**

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Christine M. Maziar, vice president and senior associate provost, has been with the University of Notre Dame since 2004. Prior to Notre Dame, she served at the University of Minnesota as vice president for research and dean of the Graduate School and as senior vice president for academic affairs and provost. She has served on the faculty of the Department of Electrical and Computer Engineering at the University of Texas at Austin, where she also was vice provost. Maziar is a member of the Purdue Engineering Visiting Committee, the University Advisory Committee of the Semiconductor Research Corporation, and the board of Oak Ridge Associated Universities. She chaired the CIC Graduate Deans and served on the Minnesota Technology Enterprise Board, the Commission on University of Minnesota Excellence, and the board of directors of Minnesota Technology.



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Lowell C. McAdam is president and CEO of Verizon Wireless. Prior to this position, McAdam served as executive vice president and chief operating officer for Verizon Wireless since its inception in 2000. Previously, McAdam was president and CEO of PrimeCo Personal Communications, a joint venture of Bell Atlantic and Vodafone AirTouch. He also served as PrimeCo's chief operating officer, responsible for overseeing the build, deployment, and launch of the company's customer service operations and all-digital network. McAdam has served as vice president for international operations for AirTouch Communications and was lead technical partner for cellular ventures in Europe and Asia. McAdam joined AirTouch as executive director of international applications and operations in 1993. From 1983 to 1993, he held various executive positions with Pacific Bell.



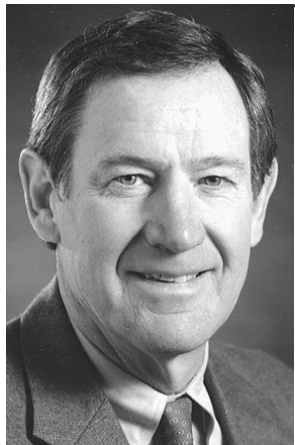
**JAMES M. MCCORMICK**

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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.



**JOHN P. NEAFSEY**

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John P. Neafsey is president of JN Associates, an investment consulting firm. Neafsey serves as chairman of Alliance Resources and Constar International. 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 has been 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.





**CHRISTOPHER K. OBER**  
(Ex Officio Member of the Council)

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Christopher Ober, the Francis Bard Professor of Materials Engineering, was appointed as interim dean of engineering at Cornell University in 2009. He joined the Cornell faculty in 1986 after several years at the Xerox Research Centre of Canada. His research is focused on lithography, patterning, the biology-materials interface, and control of surface structure in thin films. Ober received the 2003 International Sematech Outstanding Contribution Award, the 2004 Photopolymer Science and Technology Award, the 2006 American Chemical Society Award in Applied Polymer Science, a 2007 Humboldt Research Prize, and the 2009 Johannes Gutenberg Research Award, given by the University of Mainz. He was also named to the inaugural class of American Chemical Society fellows in 2009.



**ARMANDO J. OLIVERA**  
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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. Under Olivera's leadership, FPL has invested heavily in ensuring reliable service and meeting current and projected growth in demand for electric power in its service territory. FPL is moving forward to bring three state-of-the-art solar power plants to Florida as well as additional emissions-free nuclear power. FPL has one of the most efficient fossil power plant fleets in the nation. In 2007, Olivera was appointed by Florida Governor Charlie Crist to serve on the Florida Governor's Action Team on Energy and Climate Change. He is a member of the boards of Southeastern Electric Exchange and Enterprise Florida and a member of the Cornell University Board of Trustees and the Cornell University Council.



**EVELYN TAYLOR PEARSON**  
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Evelyn Taylor Pearson, currently a technology excellence manager at BP, has spent her postgraduate career in the petrochemical industry. She started full-time with Amoco in 1986 as a process development engineer, then moved on to roles of senior process engineer and operations and maintenance supervisor in manufacturing. In her current role, Pearson works across the Aromatics and Acetyls Strategic Performance Unit to drive collaboration and excellence in technology development and implementation and engineering application. Pearson is acting as BP's representative on the U.S. Chemical Industry Vision2020. 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.



**JUSTIN RATTNER**  
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Justin Rattner is chief technology officer of Intel Corporation. He is also a vice president, senior fellow, and general manager of the Corporate Technology Group, Intel's primary research organization. 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, the first computer to sustain one trillion operations per second. He currently 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. Rattner joined Intel in 1973; previously, he held positions with Hewlett Packard and Xerox.

**ROBERT W. SHAW JR.**

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Robert W. Shaw Jr. is president of Aretê Corporation, a venture capital firm focused on small-scale energy systems, currently managing SC Green Tech Ventures and having recently completed the Micro-Generation Technology Fund. Shaw was founder and president of Aretê Ventures, serving as managing partner of the five Utech Funds. Shaw serves on the investment committees of Emerald Technology Ventures and Commons Capital and as special limited partner of Nth Power Technologies and of Atrium Capital/Honda Ventures. Previously, he was a senior vice president and a member of the board of directors of Booz, Allen & Hamilton. He is a member of the Department of Energy's Hydrogen Technology Advisory Committee and has served on the Board on Energy and Environmental Systems of the National Research Council.

**WILLIAM R. SHREVE**

(Cornell B.S. '69 EP)

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With 31 years of experience in engineering and management of applied research, William R. Shreve founded Innosav, a consulting company focused on maximizing the return on R&D investments by optimizing innovation commercialization. His experience includes physical sciences, circuit design, manufacturing optimization software, and system operation software. In his 19 years as a laboratory director at Hewlett-Packard and Agilent Technologies, Shreve and his team have contributed technology for launching businesses in lightwave instruments, communications, semiconductor components, fiber optic and wireless components, measurement systems, and bioinformatics. His teams also made advances in architecture, algorithms, and software for distributed measurement systems, automated test solutions, manufacturing operations optimization within HP, and LAN-based measurement systems.

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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.

**ROBERT SMITH**

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Robert Smith is the managing principal of Vista Equity Partners LLC, a firm he founded in 2000 after 14 years of business experience. Vista's investment focus is on differentiated and scalable business models with a recurring revenue component that offer software solutions or technology-enabled services to their customers. Prior to founding Vista, Smith focused on mergers and acquisitions in the technology industry for Goldman, Sachs & Co. and was the co-head of their enterprise systems and storage business. In addition, he served as the business-unit manager for the M&A group based in New York. Prior to working at Goldman, Sachs, Smith worked in technical and operational management positions at Kraft General Foods, Air Products and Chemicals, the Goodyear Tire and Rubber Company, and Bell Laboratories.





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Duane J. Stiller is president of Woolbright Development. He founded Woolbright in 1983 on the strengths of industry knowledge, personal service, and creativity. With these values as the team's driving principles, Stiller has turned the company into the fastest-growing retail real estate developer in Florida. Woolbright primarily focuses its investments on redeveloping existing shopping centers in Florida's densely populated metro areas and in 2006 added ground-up development to its project mix. 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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Roger Strauch is chairman of The Roda Group, a venture development company he co-founded in 1997 with Dan Miller in Berkeley, California. Strauch is on the board of directors of three private companies, including GameReady, Ravenflow, and Cardstore.com. He was the first CEO and the former chairman of Ask Jeeves, a leading provider of advanced search technologies and services. He is the former CEO of Symmetricom, a telecommunications equipment manufacturer. In 1983 he co-founded TCSI Corp., a telecom software company. Strauch is a member of the engineering dean's advisory board at the University of California, Berkeley. He is an executive member of the board of trustees for the Mathematics Science Research Institute and the president emeritus of the board of trustees of Berkeley Repertory Theater.



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Sherri K. Stuewer is vice president for environmental policy and planning for Exxon Mobile Corporation. In this role she is responsible for developing and coordinating Exxon Mobil's worldwide efforts to address emerging environmental issues, including climate change. Prior to her current assignment, Stuewer was vice president for safety, health, and environment; general manager of the Exxon Company U.S.A. supply department; and manager of the Exxon refinery in Baytown, Texas. During her career with Exxon Mobil, she has held a variety of technical and managerial positions in refining, planning, and logistics. Stuewer is a member of the Cornell University Board of Trustees. She is also a board member of the YMCA of Metropolitan Dallas and 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 March 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 is on the board of trustees of Washington & Jefferson College and the University of Pittsburgh.



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Sophie Vandebroek is Xerox's chief technology officer and president of the Xerox Innovation Group. Prior to that, she served as chief technology officer at Carrier Corp. From 1991 until 2000, Vandebroek held a number of roles at Xerox, including director of the Xerox Research Centre of Canada. She is a fellow of the Institute of Electrical and Electronics Engineers and the Belgian-American Educational Foundation and a Fulbright fellow. She has received awards from Xerox, IBM, HP, Monsanto, the Belgian National Science Foundation, Semiconductor Research Corporation, IEEE, and Cornell University. Vandebroek served as a judge for MIT's *Technology Review* Young Innovators awards, the *Wall Street Journal* Innovation awards, and the FIRST LEGO and robotics competition regional awards. She is a trustee of Worcester Polytechnic Institute.



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Padmasree Warrior is the chief technology officer of Cisco Systems. Prior to that Warrior served as executive vice president and chief technology officer for Motorola. Under her leadership, Motorola was awarded the 2004 National Medal of Technology. Warrior served on the boards of Chicago's Joffrey Ballet and Museum of Science and Industry, the Singapore Agency for Science, Technology and Research (ASTAR), the Chicago Mayor's Technology Council, and the advisory council of the Indian Institute of Technology. Recognized as a role model for women and minorities in math, science, and engineering by organizations such as *Working Women* magazine, Girl Scouts, Notre Dame Girls High School, and South Asian Women Leadership Forum, in 2007 she was inducted into the Women in Technology International Hall of Fame.



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David F. Welch is a co-founder of Infinera, a leading supplier of optical systems based on innovative Photonic Integrated Circuitry (PIC) technology. Originally chief technical officer, he is currently CMO/CSO, responsible for overall corporate technology vision. He was previously CTO and VP of corporate development of SDL and JDS Uniphase, responsible for technology and acquisition strategies. Welch holds 125 patents in optical components and systems and has published more than 250 articles. 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, and more than 17 product-of-the-year awards when at SDL. He is a fellow of IEEE and of OSA and also serves on the board of directors of OSA.



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James Wrightson is vice president of strategic planning for Lockheed Martin. In that role, Wrightson has been engaged in aerospace environment analysis, operational architectural concepts, defense budget assessments, strategic enterprise evaluations, new initiatives, and growth studies. He has also been involved in Homeland Security activities at Lockheed Martin and led Lockheed Martin's Homeland Security Integrated Product Team. This team examined the architectures for Homeland Security and developed the corporation's strategic approach to four key elements: border security, emergency preparedness and response, critical infrastructure protection, and information integration and sharing. Prior to his current position, Wrightson worked for 26 years in the aerospace industry. He serves on the executive committee for the Institute for Defense and Homeland Security for the Commonwealth of Virginia.



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As the director of the Networked Systems Technology, Susan Ying leads an R&D group comprising more than 300 world-renowned scientists and engineers to provide innovative solutions to address a variety of challenges unique to the 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 the DOE Research Labs and NASA Ames 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 the AIAA Board of Directors and the executive committee of the International Council of Aerospace Science. She is also Boeing's Executive Focal for Stanford University.



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