

ECC Active Members 2013

CORNELL ENGINEERING

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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. 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 National Academy of Engineering, and a member of the board of the Academy of Medicine, Engineering, and Science of Texas. He is now a senior technical advisor to WorleyParsons, a worldwide project management and consulting firm.



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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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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.



GREGORY J. GALVIN
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Gregory J. Galvin founded Kionix in 1993 to commercialize a novel micro-mechanical technology pioneered by researchers at Cornell University. Kionix grew to over 40 employees until 2000, when Calient Networks acquired the company for its optical switching technology, renaming it Calient Optical Components. Just prior to the acquisition, a new company was spun out to pursue inertial sensor, microfluidics, and data storage markets. This company regained the Kionix name post acquisition. Galvin served as president and CEO of Calient Optical Components and on the boards of both Calient Networks and the new Kionix until 2002, when he returned to Kionix as president and CEO and advanced the company to its 2009 acquisition by Rohm Co. Ltd. Galvin serves as chairman and CEO of Rheonix Inc., established in 2008 to commercialize a unique polymer chip microfluidic technology developed at Kionix.



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Michael L. Goguen has been a managing partner at Sequoia Capital for over 16 years, where he focuses on infrastructure and technology investments. He is a director of Cellworks, Click Security, Clickatell, Infoblox (BLOX), OpenDNS, Quantenna, R2 Semiconductor, ThinkCash, Tula Technologies, Versa, vIPtela, and Virident. Goguen led Sequoia's investments in Ardent (CSCO), Avance (AVNX), LitePoint (TER), LogLogic (TIBX), MaxComm (CSCO), Monterey Networks (CSCO), Navini (CSCO), Netiverse (CSCO), NetScreen (JNPR), Pipelinks (CSCO), Redback Networks (RBAK), Spatial Wireless (ALU), Springbank (CacheFlow), Versatile (VTSS), VitalSigns (ALU), and Yago Systems (Cabletron). Before joining Sequoia Capital in 1996, Goguen 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 (Nortel). Goguen also served as a technical chairman of the ATM Forum. Goguen holds an M.S. in electrical engineering from Stanford University.

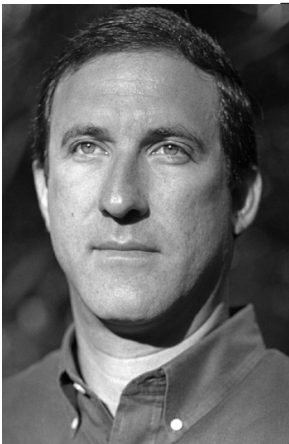
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Frank L. Huband is senior vice president and general counsel for the World Technology Evaluation Center. He recently retired as the chief executive officer of the American Society for Engineering Education, a 13,000-member professional society for 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.

**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, and a board member of Marathon Petroleum Co., United Technologies Corporation, and U.S. Steel. 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 recently retired after 30 years as an investment banker specializing in mergers and acquisitions having worked on more than \$200 billion of transactions. He was most recently a senior managing director at Duff & Phelps and prior to that, head of M&A in the Americas for The Royal Bank of Scotland, head of M&A in North America for predecessor firm ABN AMRO, and head of Media and Communications Investment Banking at ING Barings (acquired by ABN AMRO). Prior to that, he was head of Telecom, Media and Technology Investment Banking at Wertheim Schroder & Co. He is also vice chairman of the Museum of the Moving Image in New York City, an advisory board member of CFEM, and a board member of ARIF, a private foundation. He resides in New York City with his wife and three daughters.



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.



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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 two hundred high-tech entrepreneurial ventures. He serves on the boards of Fab.com, Single Platform, GumGum, Energy Innovations, and other private companies. Morgan was 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 a trustee of Cold Spring Harbor Labs and Math For America and is a respected author. He received the Entrepreneur of the Year Award in 1997. Morgan received his B.S. from the City University of New York in 1965.



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Evelyn Taylor Pearson 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. Most recently as an organizational capability manager at BP, Pearson worked with the BP-owned refineries, related businesses, and functional groups to benchmark and develop highly effective site organizations and staff to plan and execute capital projects and turnarounds. Evelyn is starting a new chapter in her life starting a ministry with her husband and a consulting practice for project, turnaround, and Technology organizations. She is active with 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. Rattner joined Intel in 1973; previously, he held positions with Hewlett Packard and Xerox Corporation.



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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 is an entrepreneur who has spent his career building successful technology companies. He is currently CEO of Hillcrest Labs, a company he founded in 2001 to create groundbreaking user experiences in consumer electronics and which is now the leading global supplier of software, hardware, and intellectual property for motion-enabled products. Before Hillcrest, Simpkins founded SALIX Technologies, and over the course of a decade led the company from inception to acquisition by Tellabs, Inc. for \$300 million. Simpkins operates as both business and technical leader: he has been issued 13 U.S. patents in the fields of interactive television and telecommunications; and teaches, writes, and speaks on a variety of business subjects. He has been recognized as one of the top 25 CEOs in the Washington, D.C. area; is an active adviser to and investor in several early stage companies; and sits on the board of private company PublicRelay.



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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. For more than 11 years, Vista has consistently performed in the top decile of private equity firms. 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.



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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 K. Stuewer is vice president for environmental policy and planning for Exxon Mobil 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 trustee emerita of Cornell University. 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 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 Astro-nuclear 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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Cisco chief technology and strategy officer Padmasree Warrior is charged with aligning technology development and corporate strategy. She helps direct technology and operational innovation, and oversees strategic partnerships, mergers and acquisitions, the integration of new business models, the incubation of new technologies, and the cultivation of technical talent. Previously, she served as chief technology officer and co-led Cisco's worldwide engineering organization. Prior to joining Cisco in 2007, she was executive vice president and CTO at Motorola. Under her leadership, Motorola was awarded the 2004 National Medal of Technology. In 2012, *Forbes* named her one of "The World's 100 Most Powerful Women," *Business Insider* called her one of the "25 Most Influential Women in Wireless," and the Aspen Institute awarded her its first Leadership in Science and Technology Award. In 2007 she was inducted into the Women in Information 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 technology. Originally chief technical officer, he is currently EVP/CSO, responsible for complete corporate strategy including markets, products, and execution strategies. He was previously chief technical officer and vice president of corporate development of SDL and JDS Uniphase, responsible for technology and acquisition strategies. Welch holds over 125 patents in optical components and systems 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. He is a fellow of IEEE and of OSA.



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Jim Wrightson is vice president, Corporate Engineering and Technology for Lockheed Martin, responsible for developing advanced concept technology initiatives and providing analyses to shape the corporation's development strategy. His primary efforts focus on establishing and implementing new business strategies in adjacent and horizon businesses through the application of innovative internal R&D combined with new business model concepts. As part of this responsibility, Wrightson is engaged in aerospace environment analysis, architectural concepts, corporate investments, business expansion strategies, and technology studies. Wrightson's career has spanned 37 years in the aerospace and defense industry, working on aircraft development programs, spacecraft systems, and optical technology R&D. Wrightson serves on the TechAmerica Foundation Board and its Strategic Forecast Council.



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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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