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CORNELL ENGINEERING

Please send directory updates to Debbie Guisado (dg60@cornell.edu).



ELIZABETH J. ALTMAN
(Cornell B.S. '88 ME)

**HARVARD BUSINESS
SCHOOL**

Wyss House
Soldiers Field
Boston, MA 02163
617 548-2512

ejaltman@alum.mit.edu

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.

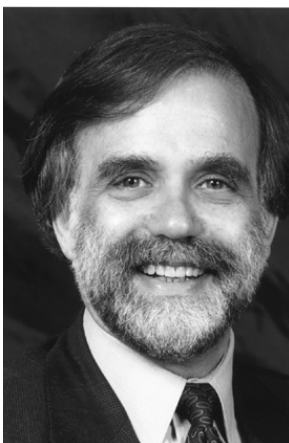


KENNETH E. ARNOLD
(Cornell B.C.E. '63)

WORLEYPARSONS

3031 Shadowdale
Houston, TX 77043
713 332-3205
Ken.Arnold@
WorleyParsons.com

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 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.



JAMES BECKER
(Cornell B.S. '65 CE;
M.S. '67)

SKANSKA AB

253 Summer Street
Boston, MA 02210
617 293-7704
jim.becker@skanska.com

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
(Cornell B.S. '86 MSE,
M.S./Ph.D. '90)

RAMBUS INC.

1050 Enterprise Way,
Suite 700
Sunnyvale, CA 94089
rblack@rambus.com
408-462-8525

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.



JOSEPH V. BONVENTRE
(Cornell B.S. '70 EP)

**BRIGHAM AND WOMEN'S
HOSPITAL, HARVARD
MEDICAL SCHOOL**

Harvard Institutes of Medicine
4 Blackfan Circle
Boston, MA 02115-5713
617 525-5960
joseph_bonventre@
hms.harvard.edu

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.



LANCE R. COLLINS
(Ex Officio Member of the
Council)

CORNELL UNIVERSITY

College of Engineering
242 Carpenter Hall
Ithaca, NY 14853-2201
607 255-9679
engineering_dean@
cornell.edu

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.



ROBERT A. COWIE
(Cornell B.M.E. '56,
M.B.A. '57)

**DANA CORPORATION
(RETIRED)**

P. O. Box 2868
Carefree, AZ 85377
480 488-3192
rac56@cornell.edu

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**

(Cornell B.S. '78 EE,
M.Eng. '79)

RETIRED

71 Riverlawn Drive
Fair Haven, NJ 07704
732 758-9654
sfischell@comcast.net

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.

**SAMUEL C. FLEMING**

(Cornell B.Ch.E. '62)

BRILAND LLC

61 Meadowbrook Rd
Weston, MA 02493
781 891-1422
sfleming@brilandllc.com

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**

(Cornell M.S. '82 MSE, Ph.D.
'84, M.B.A. '93)

KIONIX

36 Thornwood Drive
Ithaca, NY 14850
607 257-1080 ext. 110
ggalvin@kionix.com

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.

**MICHAEL GOGUEN**

(Cornell B.S. '86 EE)

SEQUOIA CAPITAL

3000 Sand Hill Road
Building 4, Suite 250
Menlo Park, CA 94025
650 854-3927
goguen@sequoiacap.com

Michael's current areas of interest include infrastructure (enterprise and carrier), 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 was also a Technical Chairman of the ATM Forum. Michael has a BS in Electrical Engineering from Cornell University and an MS in Electrical Engineering from Stanford University.

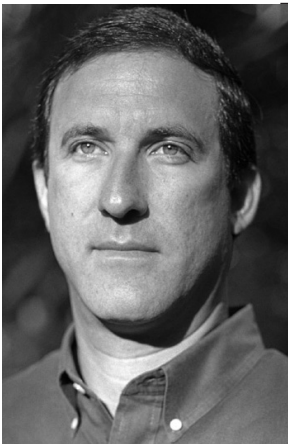
**FRANK L. HUBAND**

(Cornell B.S. '61 EP,
Ph.D. '67 AP)

**WORLD TECHNOLOGY
EVALUATION CENTER**

1206 North Stafford Street
Arlington, VA 22201
202 290-5230
frank@huband.org

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.

**ANDY KESSLER**

(Cornell B.S. '80 EE)

AUTHOR AND WRITER

75 Catalpa Drive
Atherton, CA 94027-2167
650 207-1801
akessler@velcap.com

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**

(Cornell B.S. '78 EP, M.S. '80
AP, Ph.D. '84)

FTI CONSULTING

2001 Ross Avenue
Suite 400
Dallas, TX 75201
512 329-5156
brian.kushner@
fticonsulting.com

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**

(Cornell B.Met.E. '61)

**VERIZON
COMMUNICATIONS**

Verizon Business
1 International Drive
Rye Brook, NY 10752
914 312-2242
chuck.lee@verizon.com

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 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.



IVAN L. LUSTIG
(Cornell B.S. '80 ORIE, M.
Eng. '81 and M.B.A. '82)

35 East 75th Street
New York, NY 10021
Cell 917.714.7772
Fax: 212.861.8203
Email: illustig@gmail.com

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 was, 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
(Cornell B.S. '69 ORIE,
M.Eng. '70)

**FIRST MANHATTAN
CONSULTING GROUP**

90 Park Avenue
New York, NY 10016
212 455-9102
jmccormick@fmcg.com

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.

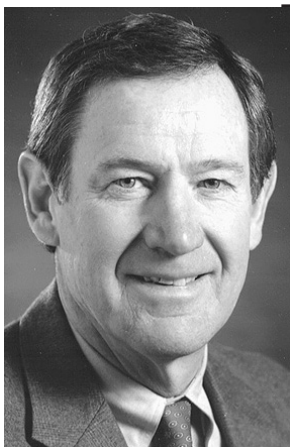


HOWARD L. MORGAN
(Cornell PhD '68 ORIE)

**PARTNER, FIRST ROUND
CAPITAL**

200 Park Ave. South,
Suite 1501
New York, NY 10003
212 201-0311 (office)
610 659-3255 (cell)
413 556-1781 (fax)
howard@firstround.com

Dr. 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 their 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. Howard 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 is 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. Howard received his Ph.D. in operations research from Cornell University in 1968 and his B.S. from the City University of New York in 1965.



JOHN P. NEAFSEY
(Cornell B.M.E. '62,
M.B.A. '63)

JN ASSOCIATES

13 Valley Road
Norwalk, CT 06854
203 831-8454
jpnwilson@aol.com

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.



ARMANDO J. OLIVERA
(Cornell B.S. '72 EE)

**FLORIDA POWER & LIGHT
COMPANY**

700 Universe Blvd.
Juno Beach, FL 33408-2683
561-694-4646
armando.olivera@fpl.com

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.



EVELYN TAYLOR PEARSON
(Cornell B.S. '84 ChE)

BP

150 West Warrenville Road,
MS 605-1W
Naperville, IL 60563-8460
630 420-5378
taylorea@bp.com

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.



JUSTIN RATTNER
(Cornell B.S. '71 EE,
M.Eng. '72)

INTEL CORPORATION

2111 NE 25th Avenue
M/S JF2-96
Hillsboro, OR 97124-6497
503 712-4950
justin.rattner@intel.com

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.



JAMES RICOTTA
(Cornell B.S. '81 EE)

VERDASYS INC.

5 Concord Rd.
Weston, MA
02493
phone: 781 797-0331
fax: 781 790-1022
jricotta@verdasys.com

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 Verdasys. 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.

**ROBERT W. SHAW JR.**

(Cornell B.S. '63 EP,
M.S. '64 EE)

**ARETÊ VENTURE MANAGE-
MENT**

P. O. Box 1299
Center Harbor, NH 03226
603 253-9797
aretecorp@roadrunner.com

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.

**DANIEL S. SIMPKINS**

(Cornell B.S. '80 EE, M.Eng.
'81)

**HILLCREST LABORATORIES
INC.**

15245 Shady Grove Rd,
Ste 400
Rockville, MD 20850
240 386-0600, x6951
dan@hillcrestlabs.com

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**

(Cornell B.S. '86 ChE)

**VISTA EQUITY PARTNERS
LLC**

401 Congress Ave.,
Suite 3100
Austin, TX 78701
512 651-3337
rsmith@
vistaequitypartners.com

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.

**DUANE STILLER**

(Cornell B.S. '84 ORE)

**WOOLBRIGHT
DEVELOPMENT INC**

3200 North Military Trail,
Fourth Floor
Boca Raton, FL 33431-6343
561 989-2277
dstiller@woolbright.net

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.



SHERRI K. STUEWER
(Cornell B.S. '73 OR, M.S. '75)

**EXXON MOBIL
CORPORATION**

5959 Las Colinas Blvd
Irving, TX 75039
972 444-1677
sherri.k.stuewer@
exxonmobil.com

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.



JOHN A. SWANSON
(Cornell '61, B.M.E. '62,
M.M.E. '63)

**SWANSON ANALYSIS
SERVICES**

1551 Saint James Circle
The Villages, FL 32162-7648
352 751-1952
john.swanson@ansys.com

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.



PADMASREE WARRIOR
(Cornell M.S. '84 ChE)

CISCO

300 East Tasman Drive
San Jose, CA 951324
408 424-3455
pwarrior@cisco.com

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.



DAVID F. WELCH
(Cornell Ph.D. EE '85)

INFINERA CORPORATION

169 Java Drive
Sunnyvale, CA 94089
408 572-5200
dwelch@infinera.com

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. 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.



JAMES WRIGHTSON

(Cornell B.S. '73 EE,
M.Eng. '74)

**LOCKHEED MARTIN
CORPORATION**

6801 Rockledge Drive
Bethesda, MD 20817
301 897-6464
james.a.wrightson@
lmco.com

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.



SUSAN YING

(Cornell B.S. '81 ME)

BOEING COMPANY

P. O. Box 3707
Mailstop 7L-69
Seattle, WA 98124
425 373-2626
susan.wying@boeing.com

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.



TODD C. ZION

(Cornell B.S. '97 ChE)

72 Nanepashemet St.
Marblehead, MA 01945
857 389-2273
todd@toddzion.com

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.

ECC Honorary Members Emeriti 2012–2013

CORNELL ENGINEERING

RICHARD A. AUBRECHT
Cornell B.S. '66 ME, M.S. '68,
Ph.D. '70

MOOG INC.

Jamison Road, Plant 24
East Aurora, NY 14052
716 652-2000
daubrecht@moog.com

CHARLES S. BROWN JR.
Cornell B.S. '72 ChE, M.Eng. '73

**EASTMAN KODAK COMPANY
(RETIRED)**

346 Rock Beach Road
Rochester, NY 14617
585 342-4349
charlieb@rochester.rr.com

KENNETH C. BROWN
Cornell B.S. '74 ME

ONE EQUITY PARTNERS

JPMorgan Securities Inc.
(Hong Kong) Ltd.
Charter House, 20/F
8 Connaught Road, Central
Hong Kong
+852 2800 0195
ken.brown@oneequity.com

JAY W. CARTER
Cornell B.S. '71 ORIE,
M.Eng. '72

**LUCENT TECHNOLOGIES
(RETIRED)**

Maple Run Stables
124 Wertsville Road
Hillsborough, NJ 08844
908 369-3455
jwc36@cornell.edu

MEI-WEI CHENG
(Cornell B.S. '72 ORE)

**SIEMENS NORTH EAST ASIA
SIEMENS LTD., CHINA**

7, Wangjing Zhonghuan Nanlu
Chaoyang District
P.O.Box 8543
Beijing 100102, P.R.China
mei-wei.cheng@
siemens.com

TIM COSTELLO
Cornell B.S. '81 ME

BUILDER HOMESITE

11900 RR 620 North
Austin, TX 78750-1345
512 651-8802
tcostello@builderhomesite.
com

SCOTT C. DONNELLY
TEXTRON INC.

40 Westminster Street
Providence, RI 02903
401 457-3560
sdonnelly@textron.com

JAMES N. HAUSLEIN
Cornell B.S. '81 ChE, M.B.A. '84

HAUSLEIN & COMPANY INC.
c/o Granite Capital
560 Lexington Ave., 10th Floor
New York, NY 10021
212 207-8884
jim@hauslein.com

WILLIAM J. HUDSON JR.
Cornell B.E.E. '56

AMP (RETIRED)

410 Laurel Drive
Hershey, PA 17033
717 533-8893
nit2hawk@gte.net

W. KEITH KENNEDY JR.
Cornell B.E.E. '65, M.S. '66,
Ph.D. '68

CON-WAY

36 Prospect Ave.
Sausalito, CA 94965
415 332-1507
wkkjr@comcast.net

SHAYGAN KHERADPIR
**(CORNELL B.S. '82 EE, M.S. '83,
PH.D. '87)**

BARCLAYS BANK

Level 26, 1 Churchill Place
London E14 5HP, England
+44 (0) 207 116 9054
shaygan.kheradpir@barclays.
com

CHARLES F. KNIGHT
**(CORNELL B.M.E. '58, M.B.A.
'59)**

EMERSON

8000 W. Florissant Avenue
St. Louis, MO 63136
314 553-2203

GRETCHEN KNOELL
(CORNELL B.S. '81 ME)

LAKE STREET CAPITAL, LLC

388 Market Street, Suite 1300
San Francisco, CA 94111
415 240-4148
gknoell@lakestreetcapital.com

RANDALL D. LEDFORD

EMERSON

8000 W. Florissant Avenue
St. Louis, MO 63136-8506
314 553-2713
Randall.Ledford@emerson.com

CHRISTINE M. MAZIAR

UNIVERSITY OF NOTRE DAME

300 Main Building
Notre Dame, IN 46556-5602
574 631-2749
christine.m.mazier.1@nd.edu

LOWELL C. MCADAM
Cornell B.S. '76 ME

VERIZON WIRELESS

VC43E030, 1 Verizon Way
Basking Ridge, NJ 07920-1025
908 559-7525
Lowell.McAdam@
VerizonWireless.com

**VENKATESH
NARAYANAMURTI**
Cornell Ph.D. '65 Physics

HARVARD UNIVERSITY

29 Oxford Street
Pierce Hall 107D
Cambridge, MA 02138
617 394-8211
venky@seas.harvard.edu

WILLIAM R. SHREVE
(CORNELL B.S. '69 EP)

INNOSAV

26750 Almaden Court
Los Altos, CA 94022
650 269-8137
wshreve.innosav@gmail.com

ROGER A. STRAUCH
(CORNELL B.S. '78 EE)

THE RODA GROUP

918 Parker Street, Suite A-14
Berkeley, CA 94710-2526
510 649-2187
roger@rodagroup.com

ALBERT E. SUTER
Cornell B.M.E. '58, M.B.A. '59

EMERSON (RETIRED)

c/o 14248F Manchester Rd. #110
Manchester, MO 63011
636-220-8290

JAN H. SUWINSKI
Cornell B.M.E. '64, M.B.A. '65

**CORNING INCORPORATED
(RETIRED)**

Cornell University
Johnson Graduate School
of Management
349 Sage Hall
Ithaca, NY 14853-6201
607 255-8949
jhs20@cornell.edu