

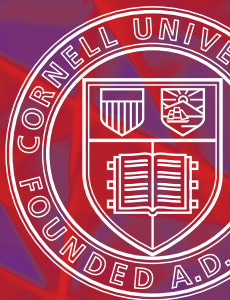
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CORNELL ENGINEERING

Engineering College Council

Spring Meeting
March 25–26, 2009

**Accelerating Innovation . . .
A World of Possibilities**



The Council: A Profile

The Engineering College Council was created as an advisory board to the dean in the 1940s, during the administration of Solomon Cady Hollister. It was one of the first—perhaps the very first—of the college advisory councils at Cornell.

For some years, the president of the university served as chairman of the council. Through 1948–49, this was Edmund Ezra Day. The acting president, Cornelius W. deKiewiet, served for two years, and then President Deane Malott was chairman through 1955–56. Since then, the chairs have been members of the council. Throughout the years, the membership of the council has included people from industry and academia, both alumni and nonalumni. Their function was and is to advise the college administration on long-range planning and development in all aspects of the program, notably instruction, research, and, increasingly, cooperative ventures with industry.

CHAIRS OF THE COUNCIL

J. Carlton Ward Jr., 1956–68
Charles W. Lake Jr., 1968–75
Arthur M. Bueche, 1975–81
Jerrier A. Haddad, 1981–85
Joel S. Birnbaum, 1985–89
Jack M. Scanlon, 1989–93
Neil A. Schilke, 1993–2000
Sherri K. Stuewer, 2001–04
William R. Shreve, 2004–
James M. McCormick, Vice Chair, 2004–

DEANS OF THE COLLEGE OF ENGINEERING

Dexter S. Kimball, 1921–36
Herman Diederichs, 1936–37
Solomon Cady Hollister, 1937–59
Dale R. Corson, 1959–63
Andrew S. Schultz Jr., 1963–72
(acting dean 1978)
Edmund T. Cranch, 1972–78
Thomas E. Everhart, 1979–84
William B. Streett, 1985–93
(acting dean 1984–85)
John E. Hopcroft, 1994–2001
Harold G. Craighead, 2001–02
(interim dean)
W. Kent Fuchs, 2002–08
Christopher K. Ober, 2009–
(interim dean)

COLLEGE ADMINISTRATION

Christopher K. Ober, Interim Dean of
Engineering

Richard Allmendinger, Associate Dean for
Diversity

Marjolein van der Meulen, Interim Associate
Dean, Research and Graduate Studies

David J. Gries, Associate Dean for
Undergraduate Programs

Cathy Dove, Associate Dean for Administration

Tim Dougherty, Assistant Dean for Alumni
Affairs and Development

Deborah Cox, Assistant Dean for Strategic
Planning, Assessment, and New Initiatives

Betsy East, Assistant Dean for Student Services

HEADS OF ACADEMIC UNITS IN ENGINEERING

Frank W. Wise, Director, School of Applied
and Engineering Physics

Daniel Aneshansley, Chair, Department of
Biological and Environmental Engineering

Michael L. Shuler, Chair, Department of
Biomedical Engineering

Paulette Clancy, Director, School of Chemical
and Biomolecular Engineering

Leonard Lion, Interim Director, School of Civil
and Environmental Engineering

Eva Tardos, Chair, Department of Computer
Science

Larry Brown, Chair, Department of Earth
and Atmospheric Sciences

Tsuhan Chen, Director, School of
Electrical and Computer Engineering

Emmanuel P. Giannelis, Director, Department
of Materials Science and Engineering

Lance Collins, Director, Sibley School of
Mechanical and Aerospace Engineering

James Renegar, Director, School of Operations
Research and Industrial Engineering

Merger with Mechanical and Aerospace
Engineering in process, Department of
Theoretical and Applied Mechanics

CURRENT COUNCIL MEMBERS

William R. Shreve, Chair,
Innosav, Incorporated

James M. McCormick, Vice Chair, First
Manhattan Consulting Group

Christopher K. Ober, Ex Officio Council
Member, Cornell University

Elizabeth J. Altman, Motorola

Kenneth E. Arnold, K. Arnold Consulting,
Inc.

James Becker, Skanska AB

Joseph V. Bonventre, Harvard Institutes
of Medicine, Brigham and Women's
Hospital

Jay W. Carter, Lucent Technologies (Retired)

Mei-Wei Cheng, Ford Motor (China) Ltd

Tim Costello, Builder Homesite, Inc.

Robert A. Cowie, Dana Corporation
(Retired)

Sarah T. Fischell (Retired)

Samuel C. Fleming, Briland, LLC

Gregory J. Galvin, Kionix

Don P. Giddens, Georgia Institute of
Technology

Michael Goguen, Sequoia Capital

Geoffrey S. M. Hedrick, Innovative
Solutions & Support, Inc.

Frank L. Huband, American Society for
Engineering Education

Chet Huber, OnStar

William J. Hudson Jr., AMP, Inc. (Retired)

Andy Kessler, Author and Writer

Shaygan Kheradpir, Verizon
Communications

Charles F. Knight, Emerson

Gretchen Knoell, Lake Street Capital, LLC

Brian Kushner, FTI Consulting, Inc.

Charles R. Lee, Verizon Communications

Christine M. Maziar, University of Notre
Dame

Lowell McAdam, Verizon Wireless

Venkatesh Narayanamurti, Harvard
University

John P. Neafsey, JN Associates

Armando J. Olivera, Florida Power & Light
Company

Evelyn Taylor Pearson, BP

Justin Rattner, Intel Corporation

Robert W. Shaw Jr., Areté Corporation

Robert Smith, Vista Equity Partners, LLC

Duane Stiller, Woolbright Development,
Inc.

Roger Strauch, The Roda Group

Sherri K. Stuewer, Exxon Mobil
Corporation

John A. Swanson, Swanson Analysis
Services, Inc.

Sophie Vandebroek, Xerox

Padmasree Warrior, Motorola, Inc.

David F. Welch, Infinera Corporation

James Wrightson, Lockheed Martin
Corporation

Susan X. Ying, Boeing Company

HONORARY EMERITUS COUNCIL MEMBERS

Richard A. Aubrecht, Moog, Inc.

Charles S. Brown Jr., Eastman Kodak
Company (Retired)

Kenneth C. Brown, One Equity Partners

Scott C. Donnelly, Textron, Inc.

James N. Hauslein, Hauslein & Company,
Inc.

W. Keith Kennedy Jr., Con-way

Randall D. Ledford, Emerson

Albert E. Suter, Emerson (Retired)

Jan H. Suwinski, Corning Incorporated
(Retired)

Current Council Members



Elizabeth J. Altman

(Cornell B.S. '88 ME)

MOTOROLA

Elizabeth J. Altman is vice president of strategy and business development in the Feature and Mass Market Phones division of Motorola's Mobile Devices business. She leads a team responsible for developing and executing business strategy, providing competitive business intelligence, and managing relationships with partner companies for a multibillion-dollar division. From 2001 to 2005, Altman was vice president of strategy and business development in Motorola's Mobile Devices business, responsible for developing and managing acquisitions, equity investments, joint ventures, technology licenses, and strategic alliances.

Altman joined Motorola in 1992 as a staff engineer after earning dual graduate degrees in mechanical engineering and management in MIT's Leaders for Manufacturing Program. Over fifteen years at Motorola, Altman has held positions in industrial design, product development engineering, manufacturing, and marketing.

Altman served on the Board of Directors of the Japan Society of Boston. She was featured in Bennis and Thomas's book on leadership, *Geeks and Geezers: How Era, Values, and Defining Moments Shape Leaders*. Altman was selected by *Boston Magazine* as one of the "Top 100 Most Influential Women in Boston," and was honored in the *Boston Business Journal* as one of Boston's "40 under 40" top business and community leaders.

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Kenneth E. Arnold

(Cornell B.C.E. '63)

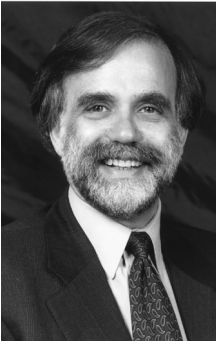
K. ARNOLD CONSULTING, INC.

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 fifty 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.

Arnold has taught facilities engineering at the University of Houston. He is a recipient of the SPE DeGolyer Medal, the SPE Production Engineering Award, the SPE Public Service Award, and an API citation for his work in promoting offshore safety. He was the Texas Society of Professional Engineers 2003 Houston Engineer of the Year. Arnold is a registered professional engineer and serves on the advisory board of the School of Science and Engineering of Tulane University.

In addition to his Cornell degree, Arnold holds a master's degree in civil engineering from Tulane University.

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James Becker

(Cornell B.S. '65 CEE; M.S. '67 CEE)

SKANSKA AB

James M. Becker is a vice president of Skanska AB, a global construction company. Becker is responsible for special projects that look to knowledge sharing between Skanska's fourteen business units, and within Skanska USA Building, he is still active as an account manager with several clients in the higher education market.

Prior to his current position, 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 have been awarded the national AON "Build America" Award, one of the construction industry's highest honors; these include Rowes Wharf in Boston and Sage Hall at Cornell University.

Becker received his Ph.D. degree from the University of California at Berkeley. He was a professor in the Department of Civil and Environmental Engineering and the Center of Real Estate at the Massachusetts Institute of Technology.

He is past president of the Associated General Contractors of Massachusetts, former chairman of The Engineering Center Education Trust, and currently chairman of the advisory committee of the School of Civil and Environmental Engineering at Cornell University.

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Joseph V. Bonventre

(Cornell B.S. '70 AEP)

HARVARD INSTITUTES OF MEDICINE BRIGHAM AND WOMEN'S HOSPITAL

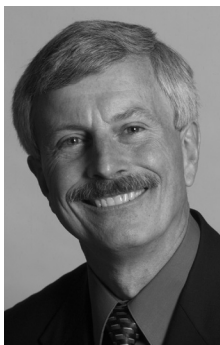
Joseph V. Bonventre holds appointments as the Robert H. Ebert Professor of Medicine and Health Sciences and Technology at Harvard Medical School and MIT. A specialist in kidney diseases,

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. In addition, he is a member of the Board of Directors of the National Space Biology Research Institute and AMAG Pharmaceuticals Inc. He is also a member of the Council of the American Society of Nephrology and future president of this organization of more than 11,000 members. He is a co-founder of PatientKeeper Inc. and Pacific Biosciences, a company that has grown out of Cornell. He is a member of the scientific advisory boards of a number of biotechnology companies. Bonventre is currently chief of the Renal Division at the Brigham and Women's Hospital in Boston. He is also the head of the Kidney Group of the Harvard Stem Cell Institute.

In addition to his Cornell degree, Bonventre holds M.D. and Ph.D. degrees in biophysics from Harvard University. He has an honorary doctorate degree from Mt. Saint Mary's College and from the Norwegian Institute of Science and Technology in Norway.

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Jay W. Carter

(Cornell B.S. '71 IE, M.Eng. '72)

LUCENT TECHNOLOGIES (RETIRED)

Jay W. Carter is currently the owner/manager of Maple Run Stables, an equine boarding and training facility in Hillsborough, New Jersey (www.maplerunstables.com). Carter is a retired vice president for mobility solutions at Lucent Technologies in Whippany, New Jersey. Prior to that assignment, he led the sales organizations that sell mobility solutions to wireless carriers in North America. Earlier assignments include COO for worldwide sales, responsible for global sales operations; president of the AT&T customer business unit; vice president of customer technical support; and president of Lucent Technologies Asia/Pacific in Hong Kong.

Before his move to the Asia/Pacific region, Carter held a number of AT&T positions in the United States. He started his career in 1971 with New York Telephone, then a subsidiary of AT&T, where he held several supervisory positions, and in 1979 was transferred to AT&T general departments as district manager for capital recovery. Carter is president of the Cornell Sprint Football Alumni Association and a member of the Cornell Society of Engineers. He has also been appointed a vice chair of the Cornell University Administrative Board for 2008–09.

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Mei-Wei Cheng

(Cornell B.S. '72 ORE)

FORD MOTOR (CHINA) LTD

Mei-Wei Cheng is a corporate vice president of Ford Motor Company, and executive chairman and CEO of Ford Motor (China) Ltd.

Cheng was a corporate vice president of Ford Motor Company and chairman and CEO of Ford Motor (China) from 1999 to 2008.

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.

Cheng had an extensive track record and considerable work experience in the U.S. (thirteen years), the Asia–Pacific region (nine years), and China (fourteen years). He is a member of the Committee of 100, an organization of Chinese American leaders. He was elected to the board of governors of American Chambers of Commerce in China for several years and was the vice chairman of AmCham in 1996. Cheng is also the vice chairman of the Jiangling Motor Company, vice chairman of the Changan Ford Mazda Automobile Corporation Ltd., vice chairman of Changan Ford Mazda Engine Corporation, and a member of the board of directors for the Ford Lio Ho Motor Company Limited. Cheng has also received number of awards from the cities of Chongqing and Shanghai and the Chinese central government.

Cheng is an M.B.A. graduate from Rutgers University and a graduate of Dartmouth's Amos Tuck Executive Program and MIT's program for senior executives.

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Tim Costello

(Cornell B.S. '81 ME)

BUILDER HOMESITE, INC.

Tim Costello is chairman and chief executive officer of Builder Homesite, Inc. (BHI), which was founded by a consortium of the nation's largest homebuilders to improve the home selection, buying, and ownership experience through the use of online technologies. Currently, BHI members build more than 250,000 new homes a year, representing more than \$60 billion in revenue. In 2004, the industry formed a second consortium, New Home Technologies, to cover supply-chain issues. The new company is owned by both the builder group and the industry's premier manufacturing partners. Upon formation of the new company, Costello was appointed chairman and chief executive officer.

Prior to joining BHI, Costello spent seven years with Applied Materials, Inc., the world's leading supplier of semiconductor capital equipment, where he was vice president of global operations. Before Applied Materials, Costello spent more than fifteen years with General Motors Corporation in a variety of executive and managerial positions.

Costello is a board member of Helio Volt Inc., an Austin-based startup commercializing low-cost thin-film solar photovoltaic processes and products. He has also been a member of the Shingo Prize board of governors since 1998, and is a lifetime member of the Shingo Prize Manufacturing Academy. Outside of the business world, Tim serves as a board member of the Trust for Public Land of Texas, a nonprofit organization dedicated to land conservation, and serves on the national marketing board of advisors.

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Robert A. Cowie

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

DANA CORPORATION (RETIRED)

Robert A. Cowie spent two years as an aerospace engineer and then joined C&M Spring Company, a truck components manufacturer. After completing

his Cornell education, 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 twenty-three years of board service, including fifteen 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. He is an emeritus member of the Johnson School Advisory Council. At Indiana University he chaired the board of visitors of the School of Public and Environmental Affairs from 1981 to 1989. Cowie is a member of the board of the Heard Museum in Phoenix, one of the leading museums in North America in American Indian art and culture. He serves on the board of the Desert Foothills Library and the Western Art Associates of the Phoenix Art Museum. He is also a member of the Arizona chapter of the World Presidents Organization.

Cowie graduated from the Advanced Management Program at Harvard in 1977. He is a registered professional engineer, a member of several professional societies, and former chair of the public affairs council of the Machinery and Allied Products Institute.

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Sarah T. Fischell

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

(RETIRED)

Sarah T. Fischell holds degrees in electrical engineering from Cornell University and has worked in telecommunications planning and medical device innovation management. At AT&T and Bell Labs, her assignments included systems engineering, technology management, and supplier management for new business telecommunications services over a twenty-year period. Her favorite accomplishments include managing the network technology planning, development, and implementation of AT&T's ISDN service and AT&T's combined local/long distance service for enterprise business customers.

As the telecom industry became less fun—if not less interesting—Fischell shifted her technology focus to the medical device business and has supported a number of Fischell family-related startup companies in financial management and intellectual property management roles. In particular, she was co-founder and director of Afmedica, Inc. prior to its successful sale to Angiotech. Currently, Fischell is largely retired from technology and engineering-related pursuits. She currently serves on the board of the Cornell Engineering Alumni Association and on the boards of several community nonprofits. She is married to David Fischell (Cornell B.S. '75, M.S. '78, Ph.D. '80) and has two children, Erin and Jennifer.

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Samuel C. Fleming

(Cornell B.Ch.E. '62)

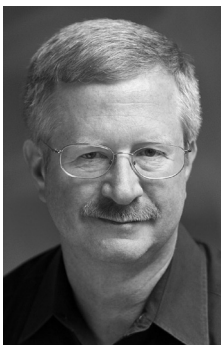
BRILAND, LLC

Samuel C. Fleming is president and CEO of Briland LLC, which specializes in health-care investments. He is chairman emeritus of Decision Resources, Inc., the leading global provider of strategic information to 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 vice-chair of the Cornell Board of Trustees, a member of the Board of Overseers of the Weill Cornell Medical College, and chair of the Cornell Life Science Advisory Board. He is a board member of the Massachusetts Eye and Ear Infirmary; as well as leading health-care foundations—the Commonwealth Fund and the Picker Institute. Earlier, he served as a board chair of the New England Baptist Hospital.

In addition to his Cornell degree, he holds an M.B.A. from Harvard Business School.

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Gregory J. Galvin

(Cornell M.S. '82 M.S.E.; Ph.D. '84 M.S.E.;
JGSM M.B.A. '93)

KIONIX

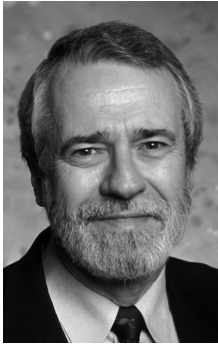
Greg Galvin is president and chief executive officer of Kionix (Ithaca, N.Y.), which he founded in 1993 to commercialize a novel micromechanical technology pioneered by researchers at Cornell University. From 1993 to 2000, Kionix grew to more than 70 employees and developed products in inertial sensors, microfluidics, data storage, micro-relays, and micro-optics. The optical business was acquired by California-based Calient Networks in December 2000, and Dr. Galvin served as president and chief executive officer of the newly-formed Calient Optical Components until 2002 when he returned to Kionix as president and chief executive officer.

Before this, he served Cornell for nine years, first as deputy director of the Cornell Nanofabrication Facility, in which micromechanical research was conducted, and later as director of corporate research relations, focusing on technology transfer.

Dr. Galvin has a B.S. in electrical engineering from CalTech, has published more than 20 technical papers, holds 58 patents, and is a member of several scientific societies.

Dr. Galvin is a member of the advisory councils of Cornell's College of Engineering and College of Veterinary Medicine, serves as a director of the Boyce Thompson Institute for Plant Research, and is a board member of Tompkins County Area Development, the Kensa Group, El Portal de Belén Foundation, and Ithaca's Sciencenter.

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Don P. Giddens

GEORGIA INSTITUTE OF TECHNOLOGY

Don P. Giddens is dean of the College of Engineering, the Lawrence L. Gellerstedt, Jr. Chair in Bioengineering, and Georgia Research Alliance Eminent Scholar at the Georgia Institute of Technology. Giddens received all three of his degrees (B.S.E. 1963, M.S. 1965, and Ph.D. 1966) from Georgia Tech. Giddens joined the Georgia Tech faculty in 1968 after two years in the aerospace industry. In 1992, he joined the Johns Hopkins University as dean. In 1997, he returned to Atlanta to become the founding chair of the Wallace H. Coulter Department of Biomedical Engineering of Georgia Tech and Emory University. In July 2002, Giddens became the dean of the College of Engineering at Georgia Tech.

Giddens is a member of the National Academy of Engineering and the Biomedical Engineering Society, and a founding fellow and past president of the American Institute for Medical and Biological Engineering. In June 2007, Giddens was elected as executive board chair of the Engineering Deans Council of the American Society for Engineering Education. Giddens is also the author of more than 300 refereed publications, book chapters, and presentations and maintains an active research program in cardiovascular hemodynamics.

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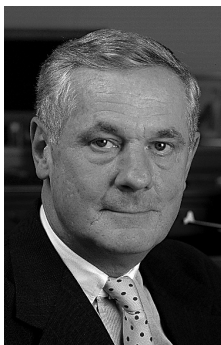
Michael Goguen

(Cornell B.S. '86 EE)

SEQUOIA CAPITAL

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. Goguen 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 over 40 Sequoia companies. Prior to 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 (NT). Goguen also served as a technical chairman of the ATM Forum. He has a B.S. in electrical engineering from Cornell University and an M.S. in electrical engineering from Stanford University.

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Geoffrey S. M. Hedrick

(Cornell B.S. '65 ECE)

INNOVATIVE SOLUTIONS & SUPPORT, INC.

Geoffrey S. M. Hedrick has been chairman of the board of Innovative Solutions & Support, Inc. 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, Inc. in 1971, which was subsequently acquired by Smiths Industries. Hedrick has thirty-five years of experience in the avionics industry. He 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.

It is known for successfully migrating technologies originally developed for the computer and telecommunications industries into applications for commercial, military, and business aviation.

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Frank L. Huband

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

AMERICAN SOCIETY FOR ENGINEERING EDUCATION

Frank L. Huband is the chief executive officer of the American Society for Engineering Education (ASEE), a 13,000-member professional society for engineering educators and institutions of engineering and engineering technology. Huband also currently serves as the Secretary General of the International Association for Continuing Engineering Education (IUACEE) and the International Federation of Engineering Education Societies (IFEES).

Formerly, Huband was the director of the U.S. National Science Foundation's Electrical and Communication Systems Division. He joined NSF in 1976 and served in the Office of the General Counsel. He held various positions at NSF, 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 and as a lecturer at Yale University, George Washington University, and George Mason University.

He holds a law degree from Yale University and is a member of the District of Columbia bar.

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Chet Huber

ONSTAR

Chet Huber is president of OnStar Corporation, a wholly owned subsidiary of General Motors. OnStar is the world's leading provider of vehicle integrated safety, security, and peace of mind services for retail and OEM customers. Huber has held this position since the creation of the business in 1995, leading it from startup to its current position as a nationally prominent brand serving millions of subscribers.

Huber joined GM in 1972 in its Locomotive Group, holding numerous roles before assuming global responsibilities for sales, marketing, and product support. The first industrial fellow selected by the U.S. Department of Defense to attend the National Defense University in Washington, D.C., he earned an M.S. in national resource strategy in 1994.

Huber holds a bachelor's degree in mechanical engineering from General Motors Institute, and an M.B.A. from the Harvard Business School. He received the distinction of "Honorary Commandant" from the Industrial College of the Armed Forces, and was awarded an honorary Doctor of Engineering degree from Kettering University.

Huber serves on the board of directors of Sirius XM Satellite Radio, is a member of the NASA Advisory Committee for PNT (Positioning, Navigation, and Timing) Advisory Board, and is a former member of the Centers for Disease Control's (CDC) Federal Advisory Committee on Injury Prevention and Control.

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William J. Hudson Jr.

(Cornell B.E.E. '56)

AMP, INC. (RETIRED)

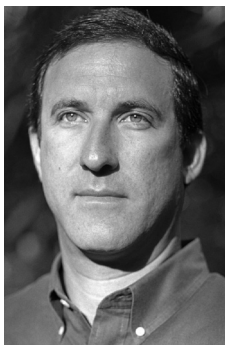
William J. Hudson Jr. is a private investor and former president and CEO of AMP, Inc., a leading manufacturer of electrical and electronic connectors and interconnection systems. His career began in 1961 as a market researcher. Then he served in a variety of senior technical and operational management roles before being elected to corporate vice president for Asia/Pacific operations in 1989, executive vice president international in 1991, and CEO/President in 1992.

Hudson serves on the boards of Applied Systems Intelligence, Inc.; Metabolic Testing Systems, LLC; and the U.S. Council for International Business. He served as a director of Goodyear Tire and Rubber Company, Carpenter Technology Corporation, and Keithley Instruments Corporation; director and vice chairman of the National Association of Manufacturers; and a governor of the National Electrical Manufacturers Association. He was chair of the Pacific Basin Economic Council U.S. Member Committee and was appointed by former president Clinton to the Advisory Committee on Trade Policy Negotiation.

Hudson was a member of the Business Roundtable, the Global Business Policy Council, the Conference Board, the U.S. Chamber of Commerce, U.S. Advisory Committee on Trade Policy, and the American Trader Initiative Advisory Council of the Heritage Foundation. He chaired the Pennsylvania Trade Export Council and the TeamPA Human Resources Investment Council and served as a member of the TeamPA Board and the TeamPA Workforce Investment Board.

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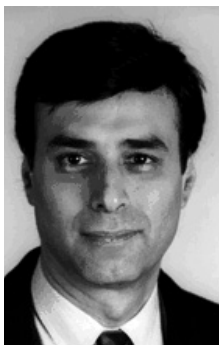
Andy Kessler

(Cornell B.S. '80 E.E.)

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. Andy 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. He lives in northern California with his wife and four sons.

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Shaygan Kheradpir

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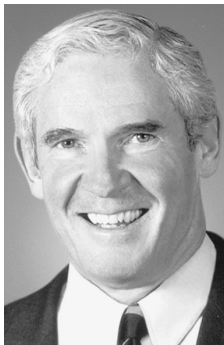
VERIZON COMMUNICATIONS

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.

Prior to assuming his present responsibilities, 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 and a member of the Cornell University Engineering College 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. Kheradpir is a senior member of the Institute of Electrical and Electronic Engineers, and in 1996 was selected as one of the nation's eighty-five outstanding young engineers by the National Academy of Engineers. From 1992 to 1994, he was an adjunct professor of electrical engineering at Northeastern University. Kheradpir has written more than twenty journal papers and holds several U.S. patents.

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EMERSON

Charles F. Knight is chairman emeritus of Emerson, a global leader in bringing technology and engineering together to provide innovative solutions to customers in electronics and telecommunications; process control; industrial automation; heating, ventilation, and air conditioning; and appliances and tools.

Knight was the long-time chairman and chief executive officer of Emerson. During his twenty-seven-year term as CEO, sales increased more than tenfold, the total return to stockholders averaged 15 percent per year, and the company's record of consecutive annual increases in earnings per share and dividends increased to forty-three and forty-four years, respectively. He has been recognized many times for his management expertise.

Knight also has a history of community service spanning more than thirty years, including support of public schools and institutions of higher learning, Barnes-Jewish Hospital, minority scholarship programs, organizations serving underprivileged or abused children, and others.

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Gretchen Knoell

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LAKE STREET CAPITAL, LLC

Gretchen Knoell is a partner with Lake Street Capital. Prior to founding Lake Street Capital in 2003, she spent eighteen 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., Inc.; 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. During her career as a banker, she led the successful completion of billions of dollars of IPOs and mergers and acquisitions. Prior to attending business school, she was an engineer with Exxon Corporation.

Knoell received an M.B.A. from Harvard University's Graduate School of Business Administration.

Knoell also serves on the board of directors of LucidMedia, Inc., Sequence Design, Inc., and Silicon Genesis Corporation, and serves as a board observer on Part Miner, Inc.

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FTI CONSULTING, INC.

Brian Kushner is a senior managing director at FTI Consulting (NYSE: FCN), specializing in interim/turnaround management. A serial entrepreneur, Brian was co-founder of CXO (FTI acquired CXO in December 2008) and founder of its predecessor, BGKC, LLC.

Brian is also the CEO of Sage Telecom; previously he was CEO of Pacific Crossing Limited, a trans-Pacific carrier. Since 1999, Brian 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, Brian founded Recompute, and helped restructure MCC and BSG under BGKC.

From 1982 to 1992, Brian was with BDM International, a defense systems integration firm, where he eventually ran Systems and Advanced Technology and was responsible for troubled projects, certain classified programs, and most DARPA-related business. BDM was bought by Ford in 1988, and did a leveraged buyout with the Carlyle Group in 1990.

Brian is a director of Sage and Pacific Crossing, and is on the executive committee of the advisory board of the College of Natural Sciences of the University of Texas at Austin.

Brian, wife Wendi (Cornell 1982 [A&S]), and daughters, Amanda (Class of 2012 [Eng.]) and Jillian, live in Austin, Texas.

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Charles R. Lee

(Cornell B.Met.E. '61)

VERIZON COMMUNICATIONS

Charles R. Lee is retired chairman of the board of directors and co-CEO of Verizon Communications. He was previously chairman, CEO, and a director of GTE Corporation. He has held senior vice presidencies in finance and planning at GTE. He began his business 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 Corporation and at Columbia Pictures Industries, Inc. He joined GTE in 1983.

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 councillor of Cornell and is on the board of overseers of the Weill Cornell Medical College. He is a member of the Business Council.

Lee earned a master's degree with distinction from the Harvard Business School in 1964.

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Christine M. Maziar
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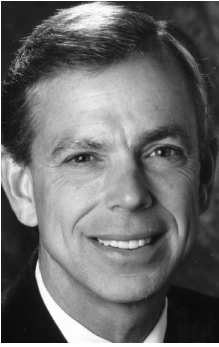
Christine M. Maziar, vice president and senior associate provost, has been with the University of Notre Dame since 2004.

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.

She is a member of the Purdue Engineering Visiting Committee as well as the University Advisory Committee of the Semiconductor Research Corporation (SRC). Maziar chaired the CIC Graduate Deans and served on the Minnesota Technology Enterprise Board, the Commission on University of Minnesota Excellence, and the Minnesota Technology Inc. board of directors.

Maziar is a graduate of Purdue University, where she earned bachelor's, master's, and Ph.D. degrees in electrical engineering. She received the National Science Foundation's Presidential Young Investigator Award in 1990 and the Semiconductor Research Corporation's Technical Excellence Award in 1992. Purdue University honored her with an Outstanding Electrical Engineer Award in 2000 and the Distinguished Engineering Alumni Award in 2003. Maziar is a fellow of the American Association for the Advancement of Science.

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Lowell C. McAdam

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VERIZON WIRELESS

Lowell C. McAdam is president and CEO of Verizon Wireless, the premier wireless provider with the nation's largest, most reliable wireless voice and 3G broadband data network. Prior to this position, McAdam served as executive vice president and chief operating officer for Verizon Wireless since the company's inception in 2000.

Previously, McAdam was president and CEO of PrimeCo Personal Communications, a joint venture owned by Bell Atlantic and Vodafone AirTouch. He also served as PrimeCo's chief operating officer, responsible for overseeing the build, deployment, and successful 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 Spain, Portugal, Sweden, Italy, Korea, and Japan. 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, including area vice president of Bay Area marketing and general manager of South Bay customer services.

In addition to serving as one of nine members on the Verizon Wireless board of representatives, McAdam is past chairman of the board of directors of CTIA, the wireless industry trade association.

He earned a master's degree in business administration from the University of San Diego, spent six years in the U.S. Navy's Engineer Corps, and is a licensed professional engineer.

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James M. McCormick

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FIRST MANHATTAN CONSULTING GROUP

James M. McCormick is a founder and president of First Manhattan Consulting Group. *The Economist* has described FMCG as “the world’s most successful

consulting firm.”

During McCormick’s more than twenty-five years of consulting, he has built expertise in a range of disciplines ranging from strategy to acquisitions to marketing to management information systems. He has consulted for many of the largest banks, other financial service firms, and technology companies.

Often a keynote speaker at conferences, McCormick is a leader in retail banking and has authored more than twenty-five white papers.

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 CNN, Bloomberg, CNBC, and other television venues. He has been quoted in publications including the *Wall Street Journal*, *New York Times*, *Institutional Investor*, *The Economist*, *Forbes*, and *Fortune*.

McCormick’s philanthropic activities focus on education. In addition to the Cornell ECC, 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.

His hobbies include auto racing, in which he won the Porsche Klub Sport Racing Series in 2003, 2007, and 2008.

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Venkatesh Narayanamurti

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HARVARD UNIVERSITY

Venky Narayanamurti is the John A. and Elizabeth S. Armstrong Professor of Engineering and Applied Sciences in the School of Engineering and Applied Sciences at Harvard University. He is also a professor in Harvard's physics department.

From 1998 to September 2008 he served as dean of the Harvard School of Engineering and Applied Sciences, and from 1992 to 1998 he served as the Richard A. Ahlhl Professor and dean of engineering at the University of California at Santa Barbara. He was vice president of research and exploratory technology at Sandia National Laboratories, Albuquerque, New Mexico, from 1987 to 1992.

He joined Bell Laboratories in 1968 as a member of the technical staff and became director of solid state electronics research in 1981. He has published widely in the areas of low-temperature physics, superconductivity, semiconductor electronics, and photonics. He is credited with developing the field of phonon optics—the manipulation of monoenergetic acoustic beams at terahertz frequencies. He is currently very active in the field of semiconductor nanostructures.

Over the years he has served on numerous advisory boards of the federal government, national laboratories, universities, and industry. Besides his personal research, he lectures widely on issues concerning the management of science, technology, and public policy.

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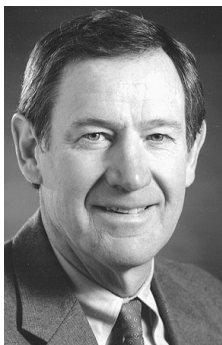
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John P. Neafsey

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JN ASSOCIATES

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, an investment bank. Prior to joining Greenwich Capital Markets, Neafsey was an executive vice president of Sun Company, responsible for Canadian operations, Sun Coal, and Helios Capital. He also was CFO and a member of the Sun board and numerous 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 since 1984 and has chaired several committees. He also is on the advisory board of the Johnson School, where he chaired their \$46.5 million capital campaign, and the Cornell Club of New York. He was also an overseer at Weill Cornell Medical College and continues to serve on its budget and finance committee. Neafsey previously was a director of Crozer–Chester Medical Center, the American Petroleum Institute, and numerous civic and charitable organizations.

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Christopher K. Ober

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Christopher Ober received a B.Sc. degree in chemistry from the University of Waterloo, Waterloo, Ontario, Canada, and a M.S. and Ph.D. from the Department of

Polymer Science and Engineering, University of Massachusetts, Amherst, Massachusetts.

Ober, who is the Francis Bard Professor of Materials Engineering, was appointed as interim dean of engineering at Cornell University in 2009. Prior to that appointment, he served as associate dean of research and graduate studies. After several years in industry at the Xerox Research Centre of Canada, Ober moved to Cornell as an assistant professor in 1986. His research is focused on lithography, patterning, the biology–materials interface and control of surface structure in thin films. As a reflection of his contributions to lithography, Ober received the 2003 International Sematech Outstanding Contribution Award and in 2004 was honored with the Photopolymer Science and Technology Award. An associate editor of *Macromolecules* and the president of the IUPAC Polymer Division, he is the 2006 winner of the American Chemical Society Award in Applied Polymer Science and received a Humboldt Research Prize in 2007.

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Armando J. Olivera

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FLORIDA POWER & LIGHT COMPANY

Armando J. Olivera is president/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 the number one energy efficiency program in the United States and one of the most efficient fossil power plant fleets in the nation.

Olivera holds a bachelor of science degree in electrical engineering from Cornell University, and a master of business administration degree from the University of Miami.

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 president of S.E.E., a member of the board of Enterprise Florida, a member of Cornell University Engineering Council and Cornell University Council.

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Evelyn Taylor Pearson

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BP

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. Since that time, Pearson has been a technology manager: a process engineering team leader for several chemical businesses and manager of PTA process research, PTA and NDC market development, and PX technology in successive assignments. 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 holds a Master of Science degree in chemical engineering from the University of Minnesota. She holds a U.S. patent and has been published in the *Journal of Catalysis*. 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. Pearson was the 2007 Raymond G. Thorpe Lecturer for the School of Chemical and Biomolecular Engineering at Cornell. Pearson and her husband, Dave Pearson, host a weekly radio show.

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Justin Rattner

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INTEL CORPORATION

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 and the fastest computer in the world between 1996 and 2000. In 1997 Rattner was honored as one of 200 individuals having the greatest impact on the U.S. computer industry today, and subsequently he was profiled in the book *Wizards and Their Wonders* (ACM Press).

Rattner has received two Intel achievement awards. He is a longstanding member of Intel's Research Council and Academic Advisory Council. 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. He was named Intel's first principal engineer in 1979, its fourth corporate fellow in 1988, and one of its first senior fellows. Prior to joining Intel, Rattner held positions with Hewlett Packard Co. and Xerox Corp. He also owns Devonwood Equestrian Center in Sherwood, Oregon, one of the top horse show facilities in the United States.

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Robert W. Shaw Jr.

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ARETÊ CORPORATION

Robert W. Shaw Jr. is president of Aretê Corporation, a venture capital firm focused on small-scale energy systems. The sixth fund managed by Aretê, the Micro-Generation Technology Fund LLC, completed its ten-year investment cycle

at the end of 2007. In mid-2007 Shaw was asked by Sumitomo Corporation to manage SC Green Tech Ventures, LLC. He was founder and president of Aretê Ventures, Inc. from 1983 to 1997, and served as the managing partner of the five Utech Funds from their inception to completion. Shaw also 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. Prior to forming Aretê, he was a senior vice president and a member of the board of directors of Booz, Allen & Hamilton, where he was a founder of the firm's energy division. Earlier in his career, he conducted materials and electronics research at Bell Laboratories and at the Cavendish Laboratory in the U.K. Shaw served on numerous corporate boards, including as chairman and a director of Distributed Energy Systems Corp. (DESC) from its inception in 1996 to 2007. He also served as chairman and director of Evergreen Solar, Inc. (ESLR) from its inception in 1994 through 2005, and most recently as a director of H2Gen Innovations, Inc. In late 2008, he joined the board of the Society for Science and the Public. Shaw is a member of the Department of Energy's Hydrogen Technology Advisory Committee (HTAC) and has also served on the Board on Energy and Environmental Systems of the National Research Council. Shaw received an M.P.A. in organization design and development from American University and a Ph.D. in applied physics from Stanford University. He is a member of Tau Beta Pi, Sigma Xi, and Phi Kappa Phi, and has been listed in *Who's Who in America*, *Who's Who in the World*, *Who's Who in Finance and Industry*, and *American Men and Women of Science*.

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William R. Shreve

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INNOSAV, INCORPORATED

William R. Shreve founded Innosav, Incorporated, a management consulting company focused on maximizing the return on clients' R&D investments by optimizing innovation commercialization, after thirty-one years' experience in engineering and management of applied research. Typically, this involves identifying opportunities, assessing their market potential and fit to corporate culture, and streamlining the process of moving from concept to market introduction.

Shreve has worked on and led research in a broad range of fields including physical sciences, circuit design, manufacturing optimization software, and system operation software. In his nineteen 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 advanced the state of the art in architecture, algorithms, and software for distributed measurement systems, automated test solutions, manufacturing operations optimization within HP, and LAN-based measurement systems.

Shreve, who holds a master's degree and doctorate in applied physics from Stanford University, attended the Wharton Executive Advanced Management Program in 1998.

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Robert Smith

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VISTA EQUITY PARTNERS, LLC

Robert Smith is the managing principal of Vista Equity Partners, LLC, a firm he founded in 2000 after 14 distinguished 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. While at Goldman, Sachs, he executed more than \$50 billion in a wide variety of M&A and financing transactions across a broad range of technology segments for industry-leading technology companies. 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. He is the principal inventor on two U.S. and two European patents.

Smith holds an M.B.A. degree from Columbia University, where he graduated with Beta Gamma Sigma honors.

He currently serves as a director of Reynolds & Reynolds, Ventyx, SirsiDynix, and Sunquest Information Systems. Smith also serves on the board of trustees for the Boys and Girls Club of San Francisco.

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Duane Stiller

(Cornell B.S. '84 ORE)

WOOLBRIGHT DEVELOPMENT, INC.

Duane J. Stiller is president of Woolbright Development, Inc. Stiller 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 the state. 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 graduated from the College of Engineering at Cornell University and is a licensed real estate broker and licensed general contractor.

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Roger Strauch

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THE RODA GROUP

Roger Strauch is chairman of The Roda Group, a venture development company based in Berkeley, California. His firm, co-founded in 1997 with Dan Miller, provides entrepreneurs the environment, resources, and guidance to launch and grow their high-technology businesses.

Strauch is on the board of directors of three private companies, including GameReady, Ravenflow, and Cardstore.com. One of the Roda Group's companies, SightSpeed, which was co-founded by a Cornell professor and two Cornell students, was sold in 2008 to Logitech International. Polyserve, a company co-founded by the Roda Group and a Cornell post-doc, was acquired in 2007 by Hewlett-Packard. The Roda Group is the lead investor in Solazyme, a company that is growing oil from algae and was recognized as one of the "10 Hottest Bioenergy Companies."

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. As TCSI's chairman and CEO, Strauch was responsible for growing the company from a start-up to one bringing in more than \$60 million in annual revenues.

Strauch is a member of the engineering dean's college advisory boards of Cornell University and 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. He is a life trustee of the Armenian Assembly of America.

Strauch has a master's degree from Stanford University. He holds two patents in the area of wireless communications.

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Sherri K. Stuewer

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Sherri K. Stuewer is vice president for safety, health, and environment for Exxon Mobil Corporation and is responsible for developing, reviewing, and coordinating Exxon Mobil's worldwide efforts in the environment, safety, and health areas.

Prior to her current assignment, Stuewer was strategic planning manager for Exxon Mobil, general manager of the Exxon Company U.S.A. supply department, and manager of the Exxon refinery in Baytown, Texas. Over her thirty-three year 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 board of trustees 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.

She is married and has two daughters.

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John A. Swanson

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

SWANSON ANALYSIS SERVICES, INC.

John A. Swanson is currently president of Swanson Analysis Services, Inc., a finite-element consulting firm. Swanson is the founder of ANSYS, Inc., served as its president for more than twenty years, and was its chief technologist until his retirement in March of 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, Inc. (now ANSYS, Inc.) 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 founding ANSYS, Inc., Swanson was employed at Westinghouse Astronuclear Laboratory in the stress analysis group in reactor design, the core analysis and methods group, and the structural analysis group. While at Westinghouse, Swanson recognized that companies could save significant time and money if they used an integrated general purpose finite-element software code to do the complex calculations that engineers were doing manually.

Swanson holds a Ph.D. in applied mechanics from the University of Pittsburgh. In 2009, he was elected as a member of the National Academy of Engineering. He is currently on the board of trustees of Washington & Jefferson College and the University of Pittsburgh. His support of colleges and universities includes the donation of research laboratories to the engineering colleges at Cornell University and the University of Pittsburgh. He recently gave the naming gift for the John A. Swanson Science Center at Washington & Jefferson College. The Swanson School of Engineering at the University of Pittsburgh is named in his honor.

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Sophie Vandebroek

(Cornell Ph.D. '90 EE)

XEROX

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 increasingly responsible roles at Xerox, including Xerox's chief engineer, technical advisor to Xerox's chief operating officer, and director of the Xerox Research Centre of Canada.

Vandebroek is a fellow of the Institute of Electrical and Electronics Engineers (IEEE), a Fulbright fellow, and a fellow of the Belgian-American Educational Foundation. She holds twelve U.S. patents. 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 director of Analogic Corporation, a member of Cummins Inc. Science and Technology Council, and a trustee of Worcester Polytechnic Institute.

Vandebroek lives in Lincoln, Mass., with her husband and their six teenagers. She was born in Leuven, Belgium, where she earned a master's degree in electro-mechanical engineering from Katholieke Universiteit prior to receiving her Ph.D. in electrical engineering at Cornell University.

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Padmasree Warrior

(Cornell M.S. '84 ChE)

CISCO SYSTEMS, INC.

Padmasree Warrior is the chief technology officer of Cisco Systems Inc. Prior to that Warrior served as executive vice president and chief technology officer for Motorola, Inc. Under her leadership, Motorola was awarded the 2004 National Medal of Technology and has accelerated innovation, reducing time from labs to market by half, realizing a ten-fold increase in the flow of ideas from research into products, and significantly growing its patent portfolio.

Passionate about industry initiatives and a committed community leader, she 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.

Warrior received the M.S. degree in chemical engineering from Cornell University and a B.S. degree in chemical engineering from the Indian Institute of Technology in New Delhi, India. She was awarded a Doctor of Engineering, Honoris Causa, from New York's Polytechnic University.

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David F. Welch

(Cornell Ph.D. EE '85)

INFINERA CORPORATION

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, responsible for execution of the optical transport system, including PIC and optical line system architecture, specification, performance, and transition from concept to manufacturing and deployment, he is currently CMO/CSO, responsible for overall corporate technology vision; primary interface for complete system architecture, optical architecture, specifications/validation of design; development/execution of product roadmaps, product line management, corporate marketing, and business/corporate development. He was previously CTO and VP of corporate development of SDL and JDS Uniphase, responsible for technology and acquisition strategies.

Welch has published more than 250 articles and holds more than 100 patents in optical components and systems. 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 seventeen product-of-the-year awards when at SDL. He serves on the board of directors of OSA and is a fellow of the IEEE.

Welch earned his B.S. degree in electrical engineering from the University of Delaware and his Ph.D. in electrical engineering from Cornell University.

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James Wrightson

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

LOCKHEED MARTIN CORPORATION

James Wrightson is vice president of strategic planning for Lockheed Martin Corporation. In this position, he has responsibility for the strategic planning process and for analyzing strategic conditions. As part of this responsibility, Wrightson has been engaged in aerospace environment analysis, operational architectural concepts, defense budget assessments, strategic enterprise evaluations, new initiatives, and growth studies.

Wrightson has also been actively involved in Homeland Security activities at Lockheed Martin and led Lockheed Martin's Homeland Security Integrated Product Team (IPT). This IPT examined the architectures for Homeland Security and developed the corporation's strategic approach to the following 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 twenty-six years in the aerospace industry. After beginning his career in research and development of tactical aircraft systems, Wrightson has held positions in program management, general management and strategic management across aircraft, space and information systems.

Wrightson received bachelor's and master's degrees in electrical engineering from Cornell University and an MBA from Washington University. He serves on the executive committee for the Institute for Defense and Homeland Security for the Commonwealth of Virginia.

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Susan Ying

(Cornell B.S. '81 ME)

BOEING COMPANY

Susan Ying leads the R&D group comprises more than 300 world-renowned scientists and engineers to provide innovative solutions to address a variety of challenges unique to The Boeing Company as the director of the Networked Systems Technology organization. Prior to this role, Ying held various leadership positions in multiple business units and locations. Before joining Boeing, Ying 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 she serves on the AIAA Board of Directors and the Executive Committee of the International Council of Aerospace Science. She also represented U.S. university professors as the Aerospace Education Ambassador to Russia. Ying is currently Boeing's Executive Focal for Stanford University. As an avid aviatrix, Ying holds a commercial pilot license and is a FAA-certified flight instructor. Ying received her Ph.D. and M.S. in aeronautics and astronautics from Stanford and B.S. in mechanical and aerospace engineering from Cornell. As a true believer in lifelong learning, she has taken executive education courses from the Kellogg School of Business Administration, Wharton Business School, and Brookings Institute in Brussels.

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Honorary Emeritus Council Members



Richard A. Aubrecht

(Cornell B.S. '66 ME; M.S. '68; Ph.D. '70)

MOOG, INC.

Richard A. Aubrecht began his career at Moog, Inc., in 1969 after completing his studies at Cornell and is now the vice chairman of the board there. His first position at Moog was as a design and development engineer at Moog GmbH in Germany. He subsequently moved to the U.S. company, where he was manager of a research and development section from 1972 to 1974 and manager of the special products division from 1974 to 1976. Aubrecht then spent three years as vice president of research and development at the Midwest American Dental Division of the American Hospital Supply Corporation, returning to Moog in 1979 as assistant to the president. He was named vice president for administration and elected a director in 1980. In 1988 he became chairman, and in 1996 he altered his role to that of vice chairman and vice president for strategy and technology.

Aubrecht was elected a trustee of Cornell University in 1992 and is also currently serving as a trustee of the Hauptman-Woodward Medical Research Institute and of CUBRC, a research affiliate of SUNY Buffalo. Previously, he served as a director of the Cornell Research Foundation, Inc., the Western New York Technology Development Center, the Listed Company Advisory Committee of the American Stock Exchange, the Western New York Boys Club, the Buffalo Chamber of Commerce, the Nichols School, and various other civic groups.

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Charles S. Brown Jr.

(Cornell B.S. '72 ChE; M.Eng. '73)

EASTMAN KODAK COMPANY (RETIRED)

Charles S. Brown Jr. was recently named as executive director of the Center for Excellence in Math and Science by the Rochester (New York) area colleges. He is responsible for program development and delivery to increase the number of students pursuing academic programs leading to careers in math, science, and engineering.

Previously Brown was the chief administrative officer and senior vice president, Eastman Kodak Company, where he was responsible for the corporate staff functions as well as international regional operations.

He began his Kodak career as a process engineer in the Synthetic Chemicals Division in 1973 and served in various technical and supervisory capacities until 1982. Since then he has held a broad range of management positions, primarily in Kodak's manufacturing units, ultimately being named as Kodak's director of global manufacturing and Logistics in February 1999.

A native of Waukegan, Illinois, he earned an M.B.A. from Rochester Institute of Technology in 1979 and an M.S. in management from MIT's Sloan School of Management in 1992. He is a member of the Cornell Society of Engineers, the Rochester Institute of Technology board of trustees, and the board of directors of Unity Health Systems.

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Kenneth C. Brown

(Cornell '74 ME)

ONE EQUITY PARTNERS

Kenneth C. Brown is currently a partner in One Equity Partners, the private equity arm of JPMorgan Chase. Previously, Brown was president of Skidmore, Owings & Merrill from 1999 to 2001 and vice president of the General Electric Company from 1992 to 1999, where he held regional CEO positions in Latin America and Southeast Asia.

Before joining GE, Brown was vice president at Inspiration Resources Corporation, a major mining and agricultural chemicals company, senior manager in the consulting practice of Price Waterhouse, and senior engineering manager at Science Applications International Corporation and the Solar Energy Research Institute. Brown began his career in 1974 at Stone & Webster Engineering Corporation.

He has an M.A. in engineering science and economics from Oxford University, where he was a Rhodes Scholar. Brown rowed varsity crew at Cornell and was a member of the U.S. National Rowing Team (1973 to 1976), winning a gold medal in the World Rowing Championships in 1974. He has been a member of the College of Architecture, Art, and Planning advisory board and the Cornell University Council. Brown is also a member of the board of directors of Engineers for a Sustainable World.

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Scott C. Donnelly
TEXTRON, INC.

Scott C. Donnelly is executive vice president and chief operating officer of Textron, Inc. Donnelly oversees Textron's manufacturing business units as well as the corporation's Information Technology, Six Sigma, Engineering, and Global Sourcing functions. In addition to chairing the company's operation committee, he serves on Textron's Transformation Leadership Team and Management Committee.

Prior to joining Textron in July 2008, Donnelly was president and CEO of General Electric (GE) Aviation, the world's leading producer of large and small jet engines for commercial and military aircraft and a major provider of flight management, actuation and power management systems. Prior to that, he served as senior vice president of GE Global Research, the world's largest and most diversified industrial research organization.

Donnelly joined GE in 1989 as manager of Electronics Design Engineering for GE's Ocean Systems Division in Syracuse, N.Y. He went on to serve in a variety of leadership roles for the company, including engineering management positions with then-GE division of Martin Marietta in both Australia and the United States. In 1995, he moved to GE's Industrial Control Systems business, where he held various management positions. Donnelly was named a vice president of GE in 1997, responsible for Global Technology Operations at GE Healthcare.

Donnelly received a B.S. degree in electrical and computer engineering from the University of Colorado at Boulder. He serves on the Engineering Advisory Committees at Cornell University and the University of Colorado, is a member of the Board of Trustees at Siena College and the Board of Directors for the United Way of Greater Cincinnati.

Donnelly is a certified Six Sigma Green Belt.

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James N. Hauslein

(Cornell B.S. '81 ChE, M.B.A. '84)

HAUSLEIN & COMPANY, INC.

James N. Hauslein was formerly chairman of the board and chief executive officer of Sunglass Hut International, Inc., the world's largest specialty retailer of nonprescription sunglasses and popular price-point watches with over 1,950 company-owned stores in 18 countries during his tenure. Hauslein led Sunglass Hut's growth from \$23 million in sales to over \$700 million at the time of his departure in 2001 when Sunglass Hut International was acquired by the Luxottica Group. He also is managing director of Hauslein & Company, Inc., a private equity investment firm. Hauslein is currently chairman and CEO of Atlas Acquisition Holdings Corp. (AMEX: AXG.U), is a member of the Board of Directors of GLG Partners, Inc. (NYSE: GLG), Liberty International, Inc. (AMEX: LIA.U), Promethean India (AIM: PTHI:L), and two small private companies.

Hauslein is a member of the alumni advisory boards for Cornell's S. C. Johnson Graduate School of Management, Entrepreneurship@Cornell, and Cornell's Department of Athletics and Physical Education. He is also on the board of directors of The Jamestown Foundation and the International Tennis Hall of Fame, and a trustee of the American Swiss Foundation, the Boys Club of New York, and the Pine School (Hobe Sound, Florida). He is a member of the Chairman's Council of Conservation International.

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W. Keith Kennedy Jr.

(Cornell B.E.E. '65, M.S. '66, Ph.D. '68)

CON-WAY

W. Keith Kennedy Jr. is currently chairman of Con-way, a global supply-chain management company. He retired as president and chief executive officer of Watkins-Johnson Company in January 2000. Kennedy joined Watkins-Johnson in 1968 as a member of the technical staff, responsible for the development and introduction of the company's bulk GaAs microwave oscillators. He rose through a series of increasingly responsible engineering, engineering management, and operations management positions and was elected president and CEO of the company in September 1987. Under Kennedy's leadership, Watkins-Johnson successfully made the transition from a defense electronics company to become a high-technology growth business.

Kennedy is a member of the board of directors of Con-way. He served as the chair of the board of Joint Venture Silicon Valley Network and is on the boards of Smart Valley, and Smart Health. He is a senior member of the Institute of Electrical and Electronics Engineers and a member of Phi Eta Sigma, Eta Kappa Nu, Tau Beta Phi, Phi Kappa Pi, and Sigma Xi. He is the author of numerous scientific and management publications.

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Randall D. Ledford

EMERSON

Randall D. Ledford is senior vice president and chief technology officer for Emerson.

He is responsible for leading the strategic technical direction of the company, advising the corporation and divisions on technology acquisitions, and directing strategic investment programs for R&D and new product investments. He is also president of Emerson Venture, Inc. He serves on several CTO boards and forums, both in the United States and abroad, and on the board of directors of several technology companies and universities.

Before joining Emerson, he was president and general manager of several different divisions at Texas Instruments, Inc., including software, digital imaging, enterprise solutions, and process automation. He began his career with Bell Telephone Laboratories in New Jersey, where he worked on UNIX development, fiber optic communication, and microwave transmissions.

Ledford holds a Ph.D. in physics from Duke University. He holds more than twenty patents and has published more than eighty articles in professional science, engineering, and business journals.

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Albert E. Suter

(Cornell B.M.E. '58, M.B.A. '59)

EMERSON (RETIRED)

Albert E. Suter is retired from Emerson Electric, which he joined in 1989 and where he served in a number of executive positions, including senior vice chairman

and COO.

He previously was COO of Whirlpool Corporation, and before joining Whirlpool in 1988, he was president and COO of Firestone Tire & Rubber Company. His business experience also includes eight years with Emerson Electric, serving in senior management positions including vice chairman and director, and twenty years in consulting with Lester B. Knight & Associates of Chicago.

Throughout his business career, Suter has been active in the Boys and Girls Clubs of America, United Way, and Junior Achievement.

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Jan H. Suwinski

(Cornell B.M.E. '64, M.B.A. '65)

CORNING INCORPORATED (RETIRED)

Jan H. Suwinski is professor of business operations at Cornell's Johnson School, where he teaches in the Semester in Strategic Operations Immersion as well as courses in business strategy and strategic alliances. He also teaches in executive education.

Suwinski joined the Johnson School faculty in 1996 after almost thirty-two years with Corning Incorporated. From 1990 to 1996, he was executive vice president of the opto-electronics group, with responsibility for Corning's fiber optic-based businesses. His Telecommunications Products Division won the Malcolm Baldrige National Quality Award in 1995.

Suwinski was responsible for ten Corning joint ventures. From 1992 to 1996, he was chairman of Siecor Corporation, a \$1 billion joint venture with Siemens. He currently serves on the boards of Tellabs, Inc.; Thor Industries, Inc.; ACI Worldwide; IVANS, Inc.; and The Sentry Group. He previously served on the boards of Cray Research; Armco, Inc.; Ohio Casualty Group; and the Telecommunications Industries Association, where he was chair of the fiber optics division.

In June 2006, the class of 2000-01 recognized Suwinski with the Russell Distinguished Teaching Award.

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