Cornell Engineering



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Nadine Aubry, University Distinguished Professor and Dean of the Northeastern University College of Engineering, is known for her contributions to the field of fluid dynamics. Aubry was elected to the National Academy of Engineering (NAE) and the National Academy of Inventors (NAI), and is a Fellow of the American Physical Society (APS), the American Society of Mechanical Engineers (ASME), the American Association for the Advancement of Science (AAAS), and the American Institute of Aeronautics and Astronautics (AIAA). She has served as Chair of the National Academies' U.S. National Committee for Theoretical and Applied Mechanics (USNC/TAM), Chair of the American Physical Society Division of Fluid Dynamics, and currently serves as the Vice Chair (and incoming Chair) of the NAE's Frontiers of Engineering Education Committee. Before joining Northeastern, she was the Raymond J. Lane Distinguished Professor, University Professor and head of the Department of Mechanical Engineering at Carnegie Mellon University. Aubry holds a Ph.D. in Mechanical and Aerospace Engineering from Cornell University.



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Dr. James "Jim" Becker is a Corporate Senior Vice President of Skanska USA Building where he has most recently provided leadership for the company's Virtual Design and Construction operation and the Innovation Grant Program. Prior to his current role, Jim was a Vice President of Skanska AB, the parent of Skanska USA Building, where he was responsible for special projects that addressed knowledge sharing between Skanska's thirteen global business units. During all of these various assignments at Skanska, Jim has stayed active as an Account Manager with some of Skanska's key clients in higher education. He previously served as the president and CEO of Beacon Skanska (now Skanska's New England office) and its predecessor Beacon Construction Company where several projects under his leadership were awarded the prestigious AGC Build America Award, including Sage Hall at Cornell. He was a faculty member at Massachusetts Institute of Technology, and also currently serves on the Civil and Environmental Engineering Advisory Committees at both Cornell, where he is Chair, and the University of California, Berkeley.



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1070 Park Avenue New York, NY 10128 212 972-1740 DBernstein@ awolfandson.com Daniel S. Bernstein is the owner of Alexander Wolf & Son, a general contracting firm specializing in interior renovations in New York City. The company was founded in 1905 by Daniel's grandfather. They have upgraded and modernized many of the city's iconic buildings including Rockefeller Center, the Empire State Building, the original World Trade Center and the United Nations campus. Daniel is a member of the Board of Trustees of the Solomon Schechter School of Manhattan, the Park Avenue Synagogue, the Jewish Homecare Network, and the Affinity Insurance Company. Daniel is now in the midst of training his two children both of whom graduated from Cornell, Peter '03 B.S. from the College of Engineering and MBA from NYU '06 and Michelle '07 B.A. from the College of Arts and Sciences and MBA University of Miami '12 to be the fourth generation of family owners of Alexander Wolf & Son.



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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.



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Virginia Giddings is an accomplished healthcare innovator, with leadership roles in medical device, pharmaceutical and nutrition businesses. Currently, she heads the Global Strategic R&D organization at Abbott Nutrition, responsible for acceleration of innovation through early-stage research and global partnerships. At Abbott, she previously led development of ABSORB, a bioabsorbable vascular scaffold, which received numerous innovation accolades, including the Wall Street Journal 2011 Medical Device Innovation Award. She has had IP strategy and business development roles with Johnson & Johnson and with Advanced Stent Technologies, a start-up acquired by Boston Scientific. She serves on the Executive Committee for the Center for Nutrition, Learning, and Memory at the University of Illinois, the Cornell Engineering Council, the Georgia Tech/Emory Biomedical Engineering Advisory Board, and the President's Council of Cornell Women. She is a co-founder of MedtechWomen, an organization dedicated to advancing women leadership in healthcare. She is a fellow in the American Institute for Medical and Biological Engineering. Giddings received her Ph.D. in Biomechanical Engineering from Stanford University.



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CHARLES R. LEE

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Verizon 500 Summit Lake Drive Valhalla, NY 10595 914 801-9765 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. and US Steel, and retired from the United Technologies Corporation board of directors. He is a retired Director of Proctor and Gamble and United Technologies. He was a member of the President's National Security Telecommunications Advisory Committee and the Advisory Committee to the President's Commission on Critical Infrastructure Protection. He is a trustee emeritus and presidential councilor of Cornell and on the board of overseers of Weill Cornell Medical College.



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Morel Family Foundation 79 East Ashland Street Doylestown, PA 18901 610 594.3075 don.morel@westpharma.com Dr. Morel recently retired as Chief Executive Officer of West Pharmaceutical Services, Inc., where he served in that position since April 2002 and Chairman of the Board since March 2003. He joined West in 1992 as Director of Research and Development and was promoted to Vice President R&D in 1993. In this role, Dr. Morel spearheaded West's efforts to develop novel and propriety drug delivery technologies. In 1998 he was promoted to Group President, heading sales, marketing and operations of West's medical device and pharmaceutical components business globally. In 1999, Dr. Morel became President of the new Drug Delivery Division and in April 2001, President and Chief Operating Officer. His aerospace work in the 1980s resulted in his selection as a finalist for assignment as a NASA Mission Specialist in the Astronaut Office in 1989. Dr. Morel holds a B.S. degree in Engineering from Lafayette College, an M.S. in Materials Science and a Ph.D. in Materials Science and Veterinary Medicine from Cornell University.



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Evelyn Taylor Pearson, Senior Manager, SABIC Innovative Plastics, and principal, Taylor Pearson Consulting, has spent her career in the petrochemical and refining industries. She has had leadership roles in research and development, engineering, capital projects, turnarounds, and manufacturing in more than a dozen businesses. She has extensive experience in research management, technical capability, organizational learning, and process engineering, including 10 years in centers of excellence. In her current role, she leads a Process Technology Competency Center which seeks to develop breakthrough technology. She holds a U.S. patent and has been published in the Journal of Catalysis. Pearson is also an administrator in Pearson Family Ministries and co-hosts a weekly radio program with her husband. She is a new member of the Cornell University Council; her volunteer activities with Cornell have included CAAAN representative, Chicago-area Mosaic Events planning team, and the President's Council of Cornell Women. Pearson was the 2007 Raymond G. Thorpe lecturer for the School of Chemical and Biomolecular Engineering at Cornell.



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15245 Shady Grove Rd, Ste 400 Rockville, MD 20850 240 386-0600, x6951 dan@hillcrestlabs.com Dan Simpkins is an experienced entrepreneur who founded and led two successful startup companies: SALIX Technologies, a telecommunications pioneer; and Hillcrest Labs, a consumer electronics innovator. As CEO of Hillcrest Labs, which he founded in 2001, Simpkins has guided the company to introduce groundbreaking user experiences for television, and to develop exceptional expertise in sensors processing. Before founding Hillcrest, he led SALIX Technologies for over a decade, managing the company from inception to its becoming a leader in VoIP, and then to its acquisition by Tellabs, Inc. for \$300 million. Simpkins is both a business and technical leader: he teaches, writes about, and speaks on a variety of business subjects, and he holds 19 U.S. patents in the fields of interactive television and telecommunications. In addition to his business activities, he is also a member of the board of the Charles E. Smith Jewish Day School, is a member of the Board of Trustees of his synagogue, Kol Shalom, and serves on the Cornell University Council.



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401 Congress Ave., Suite 3100 Austin, TX 78701 512 730-2401 rsmith@ vistaequitypartners.com Robert F. Smith is the Founder, Chairman and CEO of Vista Equity Partners. Vista currently manages equity capital commitments of approximately \$13Bn and focuses on the enterprise software, data and technology enabled solutions sectors. 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 acquisi¬tion activity for Apple, Microsoft, Texas Instruments, Ebay, and Yahoo. Mr. Smith earned his B.S. in Chemical Engineering from Cornell University and his MBA from Columbia Business School. He is the Principal Inventor on two United States and two European patents. Mr. Smith's business achievements and global philanthropic works have received recognition from numerous entities - including the Reginald F. Lewis Achievement Award, the Humanitarian of the Year Award from the Robert Toigo Foundation, the Ripple of Hope Award from the Robert F. Kennedy Center for Justice and Human Rights, the Award of Excellence from the National Association of Investment Companies, and the Columbia University BBSA Distinguished Alumni Award.



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13501 Katy Freeway CORP-EMCC-L3-356 Houston, TX 77079 281 870-6811 epsvpee@aol.com Elissa Sterry started her career with Exxon Chemical Company in information management. She subsequently held a variety of positions and in 1996 was appointed General Manager for the Polymers Applications Business Unit. She was promoted to Vice President in 1999, in charge of the worldwide Ethylene Elastomers Business. In 2002, she was named Deputy Manager of Public Affairs and later that year, was appointed manager, Economics and Energy, becoming a recognized speaker on ExxonMobil's outlook for energy and energy-related issues. In 2004, Elissa was appointed manager, Business Planning and Support, for the ExxonMobil Gas and Power Company. In 2006, she was appointed Vice President Global Oxo. In June 2007, the Oxo and Fluids Global Business Units consolidated into the Intermediates Business Unit and Elissa was appointed to the position of Vice President, Intermediates, ExxonMobil Chemical Company.



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2240 NW 19th Street, Suite 801 Boca Raton, FL 33431 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.



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32401 Archdale Chapel Hill, NC 27517 919 904-7056 skstuew@gmail.com Sherri Stuewer retired after 36 years with Exxon Mobil Corporation. In her final assignments she was Vice President for Safety, Health & Environment and Vice President for Environmental Policy & Planning. Over her career, she held a variety of technical and managerial assignments in refining, planning, and logistics, including general manager of the Exxon Company U.S.A. Supply Department and manager of the Exxon Refinery in Baytown, Texas. Ms. Stuewer is an Emeritus Trustee of Cornell University and has served on multiple non-profit boards. She is a past chair of the Industry Advisory Board to the International Energy Agency.



JOHN A. SWANSON

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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 Astronuclear Laboratory. In 2009, he was elected a member of the National Academy of Engineering. He was awarded the John Fritz Medal in 2004. He is on the Board of Trustees of the University of Pittsburgh, and served 12 years on the Board of Trustees of Washington and Jefferson College. He is currently active in Renewable Energy, with a focus on PV Solar Power. He does public lectures at Universities and community gatherings, as well as consulting on residential and commercial PV design.



JOSEPH THANHAUSER,

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BYRNAM WOOD, LLC

1270 Avenue of the Americas, Suite 2900 New York, NY 10020-0023 212 218-6500 (office) 646 379-7980 (cell) 212 218-6506 (fax) 40°45′36.7″ -73°58′48.1″ Thanhauser@byrnam-wood.com Joseph Thanhauser is the chairman and founder of Byrnam Wood, LLC, a boutique real estate investment, consulting and brokerage firm based in New York City. The firm represents clients that lease, buy, or have buildings developed for their own occupancy, in New York and globally. Their specialty has been the conception and negotiation of large commercial lease transactions. Prior to the formation of Byrnam Wood, he was a partner in the development of hotel and office properties in Philadelphia, PA.; Greenwich, CT.; Baltimore, MD.; Buffalo, NY and elsewhere in the U.S. His earliest employment after earning an MBA at Columbia University Graduate School of Business included several years working for the Uris brothers (Uris Buildings Corp.) and at Tishman Realty (now Tishman Speyer Properties). He serves on the Cornell University Council and over the past five years has worked with fellow Cornellian John Foote on the design, creation and funding of a statue of Touchdown (the Bear, Cornell's unofficial mascot) to be unveiled at the corner of Campus and Garden at Homecoming 2015.



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

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169 Java Drive Sunnyvale, CA 94089 408 572-5200 dwelch@infinera.com David F. Welch co-founded Infinera and currently serves as President and as a member of the Board of Directors. Previously, he was CTO and VP Corporate Development at SDL. Dr. Welch holds over 130 patents in optical transmission technologies, and has authored over 300 technical publications in the same field. In recognition of his technical contributions to the optical industry, he has been awarded the Optical Society of America's Adolph Lomb Medal, Joseph Fraunhofer Award and John Tyndall Award, and the UK-based Institution of Engineering and Technology's JJ Thompson Medal for Achievement in Electronics. He is a Fellow of the OSA and the IEEE. In 2011, Dr. Welch founded Students Matter, a national non-profit organization dedicated to sponsoring impact litigation to promote access to quality public education. The victory in its first case, Vergara v. California, gained national attention. He holds a B.S. in Electrical Engineering from the University of Delaware and a Ph.D. in Electrical Engineering from Cornell University.



CRAIG A. WHEELER

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675 West Kendall Street Cambridge, MA 02142 617 395-5158 Craig_wheeler@comcast. Craig A. Wheeler joined Momenta Pharmaceuticals, Inc. as Chief Executive Officer in September 2006. He also serves as a member of the company's board of directors. Momenta Pharmaceuticals is a biotechnology company specializing in the detailed characterization and engineering of complex drugs. Under Wheeler's leadership, Momenta and its collaboration partner Sandoz received FDA approval for the first ever generic Lovenox, and more recently generic Copaxone. Prior to Momenta, Wheeler worked at Chiron Corporation as President, Chiron BioPharmaceuticals, which had products treating cancer, cystic fibrosis, and multiple sclerosis. Wheeler was also a senior member of The Boston Consulting Group's health care practice, worked for Merck's MSDRL research unit as a senior engineer, and at Hybritech as a financial analyst. He is Chairman of the Board of Directors of GPhA and in 2011 was an E&Y Entrepreneur of the Year Regional Award winner. Previously, he was Chairman of the Board of Avanir Pharmaceuticals. He holds a B.S. and an M.S. degree in chemical engineering from Cornell University, and an M.B.A. from the Wharton School of the University of Pennsylvania.



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2765 Sand Hill Road Menlo Park, CA 94025 650 854-8092 eyoung@canaan.com Eric Young co-founded Canaan Partners, an industry-leading early stage venture capital investment firm, in 1987. Since then, he has led investments in numerous successful startup companies, including: Argon Networks, Capstone Turbine, Copper Mountain Networks, Cortina Systems, Diffusion Software, Ebates, Enpirion, Frame Technology, International Network Services, Kalpana, Nellcor, Octel Communications, ONI Systems, SandForce, Spectrian and Visigenic Software. An advocate for advances in cybersecurity, Eric now serves as a director of firms such as Lancope, Verance and Xirrus. He also serves on the Steering Committee for Sinet, the cybersecurity industry thought leadership group. Before starting Canaan, Eric was a SVP at GE Venture Capital. Earlier, Eric held several sales, marketing and operations management positions within various GE industrial product businesses. Eric earned a B.S. in mechanical engineering from Cornell University and an M.B.A. from Northwestern University. An advocate of promoting entrepreneurship within the Cornell community, he has served as a member of the Advisory Council of Entrepreneurship at Cornell and the Advisory Board to Cornell Silicon Valley for many years.



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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.

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