

MIDWEST CLEAN TECH 2009

November 23-24, 2009

Federal Reserve Bank of Chicago

Chicago, IL



SPEAKER BIOGRAPHIES

Anil Ahuja, PE, RCDD, LEED AP, CxA

President, CCJM Engineers, Ltd.



Mr. Ahuja is President of CCJM, a multi-disciplinary engineering firm providing energy-saving and environmentally conscious building designs, major water and wastewater system engineering, and bridge and highway design and rehabilitation.

Anil has over 30 years of experience in Building Systems Design, Design Management, Construction Management, Commissioning and Operations and Maintenance. He is a registered professional engineer in several states, with project experience including commercial, institutional, educational, residential, industrial and airports. A Registered Communications Distribution Designer, he also has considerable expertise in IT and communications design.

Prior to joining CCJM, Anil served as Vice President/General Manager of the Integrated Building Services Group with a focus on the 2020 Energy Vision Program at Exelon Corporation (the largest utility in the United States), ComEd's parent company. Other past experience includes Chief Engineer of Building Systems at The Austin Company, an international design/build company and Chief Engineer on board merchant ships.

As Chair of the MASTERSPEC Engineering Review Committee of the AIA since 2004, Anil is involved in updating the industry-standard master specification system. Current activity involves authoring Building systems integration and renewable energy specification library. Past President of DBIA (Design Build Institute of America) Great Lakes Chapter and past adjunct Professor at the Illinois Institute of Technology, Anil is also author of Building Systems Engineering – Integrated M/E Design, a Sustainable Green Technology volume adapted as a course book at the Illinois Institute of Technology and University of Illinois at Chicago. He is also a past member of DOE sponsored "Renewable Energy Think Tank".

Said Al-Hallaj, PhD

Chairman & CEO, All Cell Technologies LLC

Said Al-Hallaj is the Chairman and CEO of All Cell Technologies LLC, a technology transfer company at the University Technology Park at the Illinois Institute of Technology (IIT) in Chicago, IL, USA. Prior to All Cell, Said was a Research Professor of Chemical Engineering and Coordinator for Renewable Energy Programs at IIT. Dr. Al-Hallaj earned his B.Sc and M.Sc in Chemical Engineering from Jordan University of Science and Technology and a Ph.D in Chemical Engineering from IIT. He has published over 30 technical peer reviewed journals and over 20 conference papers. Said is a the co-author of four issued patents and several patent applications in the area of energy storage and conversion with emphasis on renewable energy, hydrogen, batteries and fuel cells for stationary and transportation applications. Said's efforts have led to the formation of two start-up companies at IIT: All Cell Technologies, to commercialize lithium-ion batteries for portable and transportation applications, and Sun Phocus Technologies, to commercialize a hologram plan concentrator (HPC) technology in the building integrated photovoltaic (BIPV) market.

Joumana Asso

Senior Private Sector Development Specialist, Climate Investment Funds, The World Bank Group

Joumana Asso, Senior Private Sector Development Specialist, joined the World Bank Group in 1999. Current work includes supporting the Climate Investment Funds (the Clean Technology Fund and the Climate Investment Fund) work program, strategy and implementation in the private sector, and promote its activities vis-a-vis private sector players such as technology providers, financial institutions and real sector companies in the developed countries and emerging markets to ensure partnerships and synergies are leveraged. Prior to joining the Climate Investment Funds, Ms Asso worked for the International Finance Corporation (IFC) - the private sector arm of the World Bank Group. Work experience includes project finance and venture capital investing in the manufacturing and the cleantech sectors at the IFC, with transactions executed in India, China, the Balkans, the Middle East and North Africa, and East Africa, in addition to extensive advisory work in the cleaner production and energy efficiency area.

L. Ross Beard

President & CEO, Solvair LLC

Chief Executive Officer, R.R. Street & Co. Inc.

L. Ross Beard is President and CEO of Solvair, LLC a company that invented and markets a unique new "Clean Technology" system for the professional cleaning of consumer garments and household textiles. He is also Chief Executive Officer of R.R. Street & Co. Inc. a 133 year old Chicago based company that manufactures cleaning and filtration products used in dry cleaning.

Mr. Beard has worked in the U.S. textile care industry for the past 27 years, since joining Street's in 1982 as its Senior Vice President of Finance. Prior to 1982, Mr. Beard worked for Andersen Consulting in Washington D.C. in its strategic planning and government regulations practices, for five years. He joined Andersen Consulting after relocating to the U.S. from England, where he held management positions with International Distillers & Vintners Ltd.

Glen P. Belvis

Brinks Hofer Gilson & Lione



Glen P. Belvis has over twenty years experience in all facets of intellectual property law, including patents, trademarks, copyrights, trade secrets and related antitrust matters. He has substantial patent litigation experience, including bench and jury trials, ITC cases, appeals before the Federal Circuit and alternate dispute resolutions. He has also participated in several multinational litigations involving related patent lawsuits in the U.K., Europe, Asia, Canada and the United States.

Mr. Belvis' experience covers a wide range of technologies including bio-tech, software, Internet, lasers, laser eye surgery, polymers, heavy equipment and pharmaceuticals.

Mr. Belvis is a Master in the Richard Linn Inn of Court, is a member of the Congress of Fellows of the Center for International Legal Studies, and is the Chairperson of the DePaul Law School IP Advisory Board. He has been repeatedly recognized as an Illinois Super Lawyer and as a Leading Intellectual Property Lawyer in the Leading Lawyers Network. He has testified as an expert witness on patent and trade secret matters in US and foreign litigations. Mr. Belvis has lectured on patent related matters at Oxford University, Peking University, the University of Illinois, and the University of British Columbia, as well as at numerous AIPLA, Thompson/West, American Conference Institute and LSI seminars. He has been interviewed on several occasions by various legal and business publications including the National Law Journal, Bloomberg News, NPR, Wall Street.com and the China Business Monthly. He is also the author of numerous articles and the former editor of Aspen Annual IP Update and Clark Boardman's Licensing Law and Business Report.

Mr. Belvis obtained a BS Degree in Chemistry from the University of Notre Dame in 1980 and a JD from the University of DePaul Law School in 1985. While at DePaul, Mr. Belvis served as an editor of the law review and received the West Publishing Company Hornbook Award, which is presented to the student

having the highest academic average in class. Mr. Belvis also served as an extern for the Honorable William J. Bauer, United States Court of Appeals for the Seventh Circuit.

Mr. Belvis is the current Chair of the Antitrust Committee for the Intellectual Property Law Association of Chicago. He is a member of the American Bar Association and the American Intellectual Property Law Association. He has also served as volunteer attorney for the Office of the Public Guardian handling civil rights and child abuse issues.

Mark Bettin

Vice President- Engineering, Merchandise Mart Properties, Inc.



Mark Bettin is the vice president-engineering for Merchandise Mart Properties Inc. (MMPI). Bettin is responsible for assisting the operation and construction departments for MMPI's properties throughout the country with a focus on increasing value to the assets through efficient and safe operations. He also works closely with all MMPI's property insurance carriers, in addition to handling the acquisition of all energy commodities required to operate MMPI buildings, including electricity and natural gas.

Bettin recently played an integral part in the LEED-EB certification of The Merchandise Mart by the United States Green Building Council, making The Mart the largest building in the world to receive certification. Bettin was the driving force behind the installation of meters to monitor common area systems throughout The Mart including exterior lighting, chilled water, heating, elevators and HVAC fans. Bettin has been with MMPI since June 1993. In that time, Bettin has served as MMPI's national director of engineering, as well as national safety officer.

Bettin is a graduate of Michigan Technological University. He resides in Frankfort, Ill., with his wife and two daughters.

Bill Bodine

Director of External Relations, Illinois Farm Bureau Governmental Affairs and Commodities Division

Bill Bodine is the Director of External Relations in the Illinois Farm Bureau Governmental Affairs and Commodities Division. He joined the division in August 2003, serving as Northeast Legislative Coordinator until taking his current role in 2006.

Bill has the primary responsibility for the development and maintenance of external relationships and communication with agricultural and food businesses and other entities of strategic importance to the organization. He works with companies across the food value chain to share Illinois Farm Bureau's positions on industry and consumer issues.

Bill earned a Bachelor of Science degree in Agriculture Economics at the University of Illinois in 1996. Prior to joining the Illinois Farm Bureau, he was a product marketing specialist with John Deere Company from 1996 to 1998. From 1998 to 2003, he was employed by a division of ConAgra Foods in sales and marketing. Bill was raised on a grain farm in Vermilion County, IL and now resides with his wife and two sons in DeKalb, IL.

Jamie Boyd

Senior Vice President, Cascadia Capital

Jamie Boyd is a Senior Vice President at Cascadia Capital focusing on sustainable technology companies. He originates, manages and executes all facets of M&A, private equity and debt placement, as well as corporate-finance related transactions.

Boyd has advised early-stage companies in the clean, green space as well as later-stage enterprises seeking project financing in the geo-thermal and bio-fuel spaces.

Prior to joining Cascadia, Boyd was an attorney with the international law firm Dechert LLP, where he worked on M&A, corporate finance and securities, private equity, venture capital, joint venture and

restructuring transactions across all industry sectors. During his career, Boyd has advised private and public companies as well as private equity investors on transactions both domestically and abroad.

Boyd holds a Bachelor of Commerce and Business Administration degree from the University of British Columbia's Sauder School of Business, a J.D. as a Thomas More Scholar from Gonzaga University School of Law, and an L.L.M. degree in international law from New York University School of Law.

Steve Brody

Director of Government Affairs and Industry Relations, Pioneer Hi Bred, a DuPont subsidiary

Steve Brody is Director, Government Affairs and Industry Relations, for Pioneer Hi-Bred, a DuPont business, where he is responsible for planning, developing and directing implementation of biotech-related government affairs, industry relations and community outreach programs in North America, including strategic relationships with external groups for the Pioneer business and DuPont Biotech effort. His responsibilities also include monitoring and advising on global trends in agriculture policy and serving as a senior corporate spokesperson on policy matters.

Previously, Steve was Sr. Manager for North America Sales Operations and Six Sigma Champion where he led Pioneer's North America Customer and Sales Services group and Business Improvement team. He joined Pioneer in 1995 as a Government Relations Manager with responsibility for federal policy, a role he held for five years.

Steve joined Pioneer from the U.S. Department of Agriculture in Washington, D.C., where he was a Special Assistant to the Secretary of Agriculture and USDA's Farm Service Agency. He has served on staff for two former Members of Congress from Iowa, and a former Iowa Lieutenant Governor. In January 2007, Steve was appointed to the Clive (Iowa) City Council and elected to a full four-year term later that year.

He serves on the BRAVO Greater Des Moines Board of Directors, the K-State Masters of Agribusiness Industry Advisory Board, the Children and Families of Iowa Board, and is founding member of the Dallas County Foundation, where he is Vice-President of the Board. He is also a Commissioner on the Iowa Judicial Nominating Commission, and represents Clive, West Des Moines and Windsor Heights on the Des Moines Area Regional Transit Authority (DART) Commission. He graduated with honors from Morningside College in Sioux City, Iowa, and has a Master's of Arts degree from the University of Iowa and a Master's of Agribusiness degree from Kansas State University.

Chad Bulman

Program Manager, Midwest Energy Efficiency Alliance (MEEA)

Chad Bulman is MEEA's Residential Program Manager, administering a portfolio of programs that focus on affordable home lighting, educating students on efficiency, and lowering energy costs for low-income families. In addition to his efforts in residential efficiency, he has coordinated MEEA's launch of a solid-state lighting program, and also serves on several workgroups charged with plotting the future of energy-efficient technologies. After earning a B.S. in Electrical Engineering from the University of Iowa, Mr. Bulman directed his professional aspirations toward the points at which environmental technologies interact with policy, diplomacy, and law. He crystallized his interest in environmentalism while earning an M.A. in International Relations from Leeds University in England, focusing his studies on international environmental policy. Mr. Bulman has been involved in volunteer efforts with a number of altruistic organizations, and enjoys the challenge of addressing the Midwest's need for smarter energy practices.

Mark Burger

President, Illinois Solar Energy Association

Mark Burger is President of the Illinois Solar Energy Association and Principal Consultant at Kestrel Development Company, a firm providing consulting services on renewable energy policy and market development. Mr. Burger has over 20 years of experience in renewable energy and building energy applications. Previously, he was a Sales and Marketing Manager at Spire Solar, a firm manufacturing solar electric panels and designing systems. Prior, Mr. Burger worked for the US Department of Energy, last

heading the Strategic Assistance Team for the Chicago Regional Office. He is also a Life Member of the American Solar Energy Society, the Illinois State University Renewable Energy Advisory Council and the Illinois Wind Working Group. Mr. Burger holds a BS in Alternative Energy from Jordan College of Cedar Springs, Michigan and an MA in Environmental Studies and Urban Geography from the University of Illinois at Chicago

Governor Chet Culver

Governor of Iowa



Chet Culver became Iowa's 40th Governor in January of 2007, when he immediately set out to build One Iowa, with One Unlimited Future.

As a former teacher, he utilized his experience in the classroom to strengthen Iowa's education system by raising teacher pay to the national average, providing millions for school improvements, and making preschool available to thousands of children. He has improved the State's fiscal position by creating a record level of cash reserves and receiving the highest possible bond rating. And Governor Culver built upon Iowa's strengths in renewable energy by creating the Iowa Power Fund, which is turning the state into the renewable energy capital of the nation.

In 2008, Governor Culver oversaw the rebuilding of Iowa after the state was hit by record tornadoes and historic floods, and in 2009 he created I-JOBS, an \$830 million initiative to rebuild infrastructure, create jobs, and stimulate the economy. And throughout his time in office, Governor Culver has worked with companies around the globe to bring new jobs to Iowa, creating greater opportunities for communities and building a brighter future for everyone.

Governor Culver began his career as an environmental and consumer advocate in the Iowa Attorney General's Office. After receiving his Master of Arts in Teaching at Drake University in 1994, he taught government and history at Roosevelt High School and Hoover High School in Des Moines, where he also coached both football and basketball. As a teacher and a coach, Governor Culver drew on his experiences playing sports in high school and playing football on scholarship at Virginia Tech.

In 1998, Governor Culver was elected as Iowa's 29th Secretary of State, at the time the youngest Secretary of State in the nation, and was re-elected to the office in 2002. As Secretary of State, he created the Iowa Student Political Awareness Club (ISPAC), a nonpartisan statewide student organization dedicated to increasing civic and community participation among Iowa's young people.

Governor Culver and his wife, Mari, have two young children, Clare Honour and John William. Prior to moving to Terrace Hill, the family resided in West Des Moines. Governor Culver is a member of the Covenant Presbyterian Church.

Governor Culver is the youngest of four children of former Iowa Senator John Culver and Ann Cooper Culver. Senator Culver served Iowa in the United States House of Representatives from 1965 to 1974 and in the United States Senate from 1974 to 1980.

John Cuttica

Energy Resources Center, University of Illinois at Chicago

John Cuttica is presently the Director of the Energy Resources Center located at the University of Illinois at Chicago. John also serves as the Director of the Midwest Clean Energy Application Center, which was established by DOE in 2001 as the first of its kind Center to promote the use of Combined Heat and Power (CHP), District Energy, and Waste Heat Recovery in the 12 State Midwest Region.

John has been in the energy field for over 25 years, with most of his career spent in the energy R&D area, having held the position of VP of End Use Research at the Gas Research Institute for more than ten years.

Mr. Cuttica holds an undergraduate degree in electrical engineering from the Catholic University of America in Washington DC and a Masters in Engineering Administration from the George Washington Univ. also located in Washington DC.

Alex Detre

Research Director, Continental Automated Buildings, Canada

Alex Detre is CABA's Research Director and oversees CABA's Connected Home Research Council (CH-RC). Mr. Detre's main responsibility encompasses research strategy planning in all areas of the home environment. He consistently develops research "areas of interest" with all CABA members to ensure members goals and vision align with current industry activities. He joined CABA in 2007 and consistently works with installers, service providers, OEMs, energy utilities, builders, consultants, research organizations, publishers, educational institutions, governments, associations and content providers.

Before joining CABA, he was with Envoy, a software solution start up, as the Executive Director for four (4) years. He was responsible for product development for private and public sector clients. Alex Detre attended Acadia University, McGill University and is currently completing his PMP through the PMI Institute.

Ali Emadi, PhD.

Harris Perlstein Endowed Chair Professor and Director, Electric Power and Power Electronics Center and Grainger Laboratories, Illinois Institute of Technology
Founder and President, Hybrid Electric Vehicle Technologies, Inc.

Dr. Ali Emadi is the Harris Perlstein Endowed Chair Professor of Engineering and the director of the Electric Power and Power Electronics Center and Grainger Laboratories at Illinois Institute of Technology (IIT). In addition, Dr. Emadi is the founder and president of Hybrid Electric Vehicle Technologies, Inc. (HEVT). He is the recipient of numerous awards and recognitions. He has been named as a Chicago Matters Global Visionary in 2009. He has been named the Eta Kappa Nu Outstanding Young Electrical Engineer of the Year 2003 (single international award) by virtue of his outstanding contributions to hybrid electric vehicles by the Electrical Engineering Honor Society.

Dr. Emadi is the principal author/co-author of over 250 journal and conference papers as well as several books including Vehicular Electric Power Systems (Marcel Dekker, 2003), Energy Efficient Electric Motors (Marcel Dekker, 2004), Uninterruptible Power Supplies and Active Filters (CRC Press, 2004), Modern Electric, Hybrid Electric, and Fuel Cell Vehicles (CRC Press, 2004), and Integrated Power Electronic Converters and Digital Control (CRC Press, 2009). Dr. Emadi is also the editor of the Handbook of Automotive Power Electronics and Motor Drives (Marcel Dekker, 2005).

Dr. Emadi was the founding General Chair of the 1st IEEE Vehicle Power and Propulsion Conference (VPPC'05), which was co-located under his chairmanship with the SAE International Future Transportation Technology Conference. He is currently the Chair of the IEEE Vehicle Power and Propulsion Steering Committee, Chair of the Technical Committee on Transportation Power Electronics of the IEEE Power Electronics Society, and Chair of the Power Electronics Technical Committee of the IEEE Industrial Electronics Society. He has also served as the Chair of the prestigious International Future Energy Challenge.

Jeffrey Elam, PhD.

Chemist, Argonne National Laboratory

Dr. Jeffrey Elam is a chemist at Argonne National Laboratory where he directs a research program aimed at developing thin film coating and nanostructuring technologies to help solve the Nation's energy problems. In particular, Jeff is researching the design and manufacturing of new types of cost-effective solar cells, improved energy storage devices, and energy-saving catalysts. Jeff earned his B.A. in chemistry from Cornell University and his Ph.D. in physical chemistry from the University of Chicago.

Ed Erickson

Industry Consultant, Erickson Consulting

Ed Erickson is a consultant to entrepreneurial companies and venture capital firms. He has extensive experience in the life science industry having served as president, CEO or a director of over a dozen such

companies, four of which successfully completed IPOs during his tenure. He has raised a total of approximately \$500,000,000 in equity and debt capital in the private and public capital markets. He also has considerable experience gained earlier in his career in defense, energy, natural resources and information technology.

Mr. Erickson has substantial board experience, including chairman, director and committee member roles, in both private and public companies. From 2007 to 2009, Mr. Erickson was Chairman, President and CEO of Cellatope Corporation, a private diagnostics company in the field of autoimmune diseases. Earlier this year Cellatope announced and completed the sale of its assets to Cypress Bioscience, Inc., a public biotech company. Prior to Cypress he served in succession as CEO of three companies that successfully completed initial public offerings.

Earlier in his career, Mr. Erickson was a senior executive of The Ares-Serono Group (now Merck Serono S.A.), then a publicly traded pharmaceutical company based in Switzerland. At Serono he was President of Serono-Baker Diagnostics and prior to that as Vice President, Financial Operations, for the Group. Before Serono, he served in executive and general management positions at Amersham International.

Mr. Erickson holds a BS with distinction in Mathematics with a minor in Physics and an MS in Mathematics from the Illinois Institute of Technology. He received an MBA with high distinction from Harvard University where he was elected a Baker Scholar and was awarded the Loeb Rhodes Fellowship in Finance.

Kellogg ("Ked") Fairbank

President & CEO, Environmental Solutions World Wide

Ked's corporate experience ranges from entrepreneurial ventures to Fortune 200 companies in a variety of industries. He currently is President & CEO of Environmental Solutions World Wide, a young company, nineteen years in the making, that is bringing new technological thinking to the waste, environmental and alternative energy arena.

From 1999-2003, Ked was founder, President and CEO of Limitless, Inc., a start-up company developing software solutions for the K-12 school market in the US and India. From 1988-1989, he spent six months developing a Strategic Plan for Europe for Safety-Kleen's hazardous waste business. He then joined Browning-Ferris Industries (Europe) in 1989 where he served as Senior Vice President - Business Development with responsibility for marketing, technology and acquisitions in Europe. Based in the Netherlands, he completed 47 M&A deals over a five year period. He founded KF International NV in 1995 and completed ten more deals in the waste and water industries from 1995-1999 for German, Belgian, and French client companies and for NALCO. Ked's previous experience spans industries, responsibilities and the globe over a 40 year career.

He was formerly a director of First National Bank & Trust Company of Illinois and of GSES mbH, a German waste company that purchased a salt mine with his help. Ked also served on the Editorial Advisory Board of Pollution Prevention magazine and had "Internationalize Business Savvy" published in The Chicago Tribune and "European Perspectives on the Future of Waste Management" in European Business Review.

He received his BA degree from Harvard University and his MBA from the University of Chicago.

Steve Frenkel

Chief Policy Advisor, Illinois Environmental Protection Agency

Steve Frenkel is the Chief Policy Advisor at the Illinois Environmental Protection Agency where he helps direct the state's climate change policy and oversees the agency's energy initiatives. He represents Illinois in the development of the Midwestern Greenhouse Gas Reduction Accord; the Midwestern Energy Security and Climate Stewardship Roadmap and the Governors' Climate and Forestry Task Force. Steve also oversees implementation of the Illinois Climate Action Initiative, a comprehensive plan to reduce greenhouse gases statewide and the development of Illinois EPA's climate change adaptation initiatives. Steve also represents Illinois EPA on the Illinois Energy Team, an interagency effort to foster investment in clean energy using innovative project finance methods. Prior to joining Illinois EPA Steve served as the

Deputy Chief of Staff in the Illinois Governor's Office where he directed the state's energy, environmental and economic development policy.

David Fournier

Partner, K&L Gates LLP

David Fournier is a partner with the law firm of K&L Gates. He concentrates his practice on patent matters in the pharmaceutical, biotechnology, chemical and clean technology industries, with a particular focus on patent procurement and portfolio management, rendering opinions relating to the validity, infringement and enforcement of patents, product lifecycle management strategies, negotiating and drafting license agreements, and performing due diligence relating to private equity investments and other transaction involving intellectual property.

David has a bachelors degree in biology with honors from Lake Forest College, a masters degree in biotechnology from Northwestern University, and a JD with honors from DePaul University College of Law. Prior to entering private practice, Mr. Fournier spent several years working in research and as a patent agent with the Monsanto-Searle-Pharmacia lineage of companies.

Dan Girard

Director of Renewable Energy and Major Projects Group, Power Systems Services Division, S&C Electric

Dan Girard is the Director of Renewable Energy and Major Projects group for the Power Systems Services division at S&C Electric. Dan is a graduate of Marquette University and has 25 years of technical and project management experience working with utilities, large commercial and industrial customers on various engineering solutions consisting of power issues that include design of substations, power feeders, power factor corrections, new building electrical layout, and campus layouts. These have included electric utilities, commercial plants, industrial plants, college campuses, hospitals, wastewater plants, and water treatment facilities. Many of Dan's projects have included utility scale wind, solar PV, solar thermal, and battery storage.

His previous experience includes Fourteen (14) years at varying positions at Wisconsin Electric.

James Greenberger

Executive Director, National Alliance for the Advanced Technologies (NAATBatt)

Jim Greenberger is the Executive Director of the National Alliance for Advanced Technology Batteries (NAATBatt) and a principal in Private Equity Law Advisors. NAATBatt is a Chicago-based trade association of more than 50 member firms representing manufacturers of large format advanced batteries used primarily in transportation and grid balancing applications. NAATBatt is dedicated to reducing the cost of large format advanced batteries by increasing manufacturing and supply chain efficiency, accelerating the transfer of technology from research institutions to the commercial sector, and promoting the legal and practical fungability of advanced batteries in order to lower their upfront cost to consumers and maximize their residual value.

Mr. Greenberger is also a practicing attorney who advises investors, entrepreneurs and emerging companies working primarily in the area of renewable energy and related technologies. He is a past chair of the Commercial Finance & Transactions Committee of the Chicago Bar Association and an author and frequent speaker on topics relating to renewable energy, private equity and venture finance.

Michael Gurin

CEO, Sol Xorce LLC & Chairman, reXorce LLC

Michael Gurin is CEO of Sol Xorce LLC and has been instrumental in creating the vision and technology road map for advancing solar thermal technologies through the use of supercritical fluids. Mr. Gurin had invented the core thermal engine technology for reXorce Thermionics, and co-invented the nanotechnology for conductivity enhancement and invented technology extensions of a NASA licensed supercritical air conditioning / refrigeration absorption system. He is a 20-year veteran of technology and business development in which he strategically guided CogniTek, as past president, from non-linear

optimization within thermodynamic processes to the incorporation of nanoscale technologies into a wide range of heat transfer systems. Mr. Gurin has experience in achieving growth through start-ups and is now leading Sol Xorce, a spinoff of reXorce Thermionics Inc. in the commercialization of high efficiency solar solutions based on its solar receiver with integrated heat pump and power generating technology.

Thomas W. Hacker

President, C&L Supreme

A Chicago native, Tom began his manufacturing career on the shop floor of a metal fabrication company in the late 1970's. From this start, he rose through the ranks of the manufacturing industry, gaining a diverse background in sheet metal and structural steel fabrication, defense products, coatings and precision machining.

Tom joined C&L Supreme in the fall of 1996, helping to guide this small, family owned CNC machining business through a plant relocation and triple digit growth. He was named president of the company in the Spring of 2008.

Tom is active in the manufacturing community and currently serves on the board of the Economic Development Council of Chicago and on its Technology Commercialization Task Force. He also serves on the board of Global Midwest Alliance and the Alliance for Illinois Manufacturing. Tom is Vice-Chairman of the Education & Recruitment Committee for the Tooling & Manufacturing Association.

Pieter M. de Haan

CEO, Philips Lighting Electronics North America & Senior Vice President, Philips Lighting



Pieter de Haan moved to the Chicago area in January 2008 as the CEO for Philips Lighting Electronics North America, since January 2009 he leads one of the Global Business units from the Chicago office.. He brought to the USA an extensive background in the lighting. Since first joining the Philips Lighting organization in 1982, Pieter has held successive roles throughout Philips Lighting in Europe and Asia and has amassed over 25 years of experience in manufacturing, supply, marketing, sales, and general management. Prior to this appointment Pieter de Haan served as CEO of Philips Lighting East Asia, based in Shanghai. He is married with four children and holds a Masters Degree in Industrial Design Engineering from Delft University of Technology.

Chuck Holland

Partner, K&L Gates

Chuck Holland is a partner in the Palo Alto office of K&L Gates, a global law firm with 1800 lawyers. He brings decades of experience as a patent lawyer and engineer in various industries to his practice focusing on patent prosecution, portfolio review, licensing, and strategic advice. Mr. Holland has advised companies on issues involving a wide array of technologies, such as solar energy, water purification, solar cells, biofuels, and waste handling, as well as on the manufacturing of medical devices, pharmaceuticals, semiconductors, and chemical and petrochemical products.

For the last several years, he has centered his practice on renewable energy and clean technology, counseling investors and companies ranging from start-ups to Fortune 500 corporations on intellectual property matters.

Mr. Holland received his J.D. from Santa Clara University School of Law and his B.S. from Carnegie Mellon University.

Deborah Ifrah

Executive Director, Diversified Industries Group, J.P. Morgan Securities



Deborah Ifrah is an Executive Director in the Diversified Industries Group at J.P. Morgan Securities, who has primary responsibility for the Investment Bank's Smart Grid and Energy Storage business. In addition, Deborah also focuses on Industrial Technology multi-industrial conglomerates with significant renewable energy and/or energy efficiency businesses and initiatives underway.

Ms. Ifrah joined the J.P. Morgan in 1999 as an analyst in the Mergers & Acquisitions Group, where she spent 6 years before joining the Diversified Industries group in 2005. In 2007, she spent 3 months in Mumbai, India as Global Integration Manager for JPM's Investment Banking offshoring efforts. Her experience includes merger, acquisition and divestiture assignments, as well as debt and equity financing transactions. Ms. Ifrah has advised clients across a broad range of sectors including Healthcare, Media, Industrials, Telecom, and Consumer & Retail.

Ms. Ifrah's significant transaction experience includes SPX's acquisition of UDI, IMC chemicals' sale to Apollo, News Corporation's purchase of 34% stake in Hughes/DirectTV, the sale of Pitney Bowes' leveraged lease portfolio to Cerberus Capital Management, Cendant's \$25 billion corporate split-up, the \$10 billion purchase of Home Depot Supply by the Bain, Carlyle, and CD&R consortium, and the recent \$414 million IPO of Education Management Corp.

John Kelly

Deputy Director, Galvin Electricity Initiative

As Deputy Director of the Galvin Electricity Initiative, Kelly is leading research into improved electricity governance models and the development of innovative Perfect Power prototypes. These prototypes are being designed to serve as a test bed where innovative technologies and policies can be refined.

Kelly has been a featured speaker on sustainable development, smart grids, utility restructuring, distributed energy technology, and energy markets. He is a founder of the National Energy Center for Sustainable Communities (www.necsc.us), and is also one of the founders and past treasurer of the Midwest Energy Efficiency Alliance (www.mwalliance.org). Kelly received a degree of Bachelor of Science in Energy Engineering from the University of Illinois, Chicago and a certificate in Environmental Engineering from the Illinois Institute of Technology.

Linda Lin, PhD.

Sr. Vice President – China/Pacific Rim, FuelTech, Inc.

Dr. Lin was promoted to Vice President in 2006 and to Senior Vice President, China/Pacific Rim in 2008. She has been with Fuel Tech since the inception of Nalco Fuel Tech in 1990 where she held a dual-duty position of Marketing Manager for Asia and Research Manager. Prior to that, Dr. Lin was at Nalco Company for 28 years.

Born in Nanjing, China, Dr. Lin grew up in Taiwan where she graduated with a B.S. degree in Chemical Engineering from Taiwan University. She continued graduate studies and earned a Ph.D. degree in Catalysis from Texas A&M University.

With over two dozen Fuel Tech air pollution control (APC) systems sold and operated in Taiwan and the Republic of Korea, Dr. Lin has been a successful marketer of Fuel Tech's APC products in Asia. These include the first commercial NOxOUT® SNCR systems for cement kilns and NOxOUT-SCR® systems for diesel engines. She has been instrumental in setting up the region's sales infrastructure as well as building relationships with government and industrial agencies, engineering firms and a large customer base. She is credited with placing Fuel Tech in an enviable leading position in China's NOx emissions reduction and energy savings TIFI® markets. Dr. Lin's talents also include the development of many significant chemical products such as 8263/8263+, used in TIFI® applications. She is the inventor or co-inventor of over 20 U.S. patents and has authored or co-authored approximately 100 publications.

Daniel Marselle, Director

Director, University Technology Park at Illinois Institute of Technology

Dan Marselle has spent the last few years as the Director of the University Technology Park on the campus of the Illinois Institute of Technology (IIT), which is a \$100 MM redevelopment project of four landmark buildings. In that role, he is responsible for property and economic development as well as marketing and operations. During his tenure, the number of companies at the tech park has thus far quadrupled from 6 to 24, employing almost 300.

Prior to this role, Dan spent over a decade in the pharmaceutical industry with Searle/Pharmacia Pharmaceuticals in planning & marketing, as assistant to the chairman of Searle, and as Director of Pharmacy Technology Transfer for the University of Illinois at Chicago.

Dan has a BS and MS in Chemical Engineering from IIT and UW-Madison, respectively, and an MBA in Finance from the University of Chicago.

Jim Mennell

President, renewaFuel

James Mennell is a founder and President of Renewafuel, LLC, a next-generation biofuel manufacturer based in Cleveland, Ohio. Renewafuel aggregates, engineers and distributes biomass-based cubes for use in industrial and institutional applications that result in substantial environmental benefits compared to fossil fuels. Since 2000, Mennell also has been the Managing Partner of the Environmental Law Group in Minneapolis where he regularly works on development and permitting of renewable energy projects. Prior to that, Mennell was a partner at Oppenheimer, Wolff and Donnelly in Minneapolis. Mennell has authored dozens of articles, regularly speaks on environmental issues, and has taught at William Mitchell College of Law, Hamline University, and the University of Minnesota Law School. He graduated University Scholar (highest honor) from the University of South Dakota, received his Juris Doctor degree, with honors, from Duke University, and also has a Masters Degree in English from Duke University.

Jim Naughton

Partner, Brinks Hofer Gilson and Lione



Jim Naughton is a partner with the intellectual property law firm of Brinks Hofer Gilson and Lione and is chair of the firm's Green Technology Practice Group. Jim's practice focuses on intellectual property counseling, portfolio management, due diligence investigation, licensing, and prosecution, with emphasis in patent matters. In this work, he has gained extensive experience in areas such as wind energy, water purification, online commerce, vehicle navigation, and medical devices. Jim earned a Bachelor's Degree in Electrical Engineering with highest honors and a J.D. degree from the University of Illinois, where he also conducted and published research on a solar satellite power system for the university's Energy Research Group. Jim has been honored as an Illinois Super Lawyer in Intellectual Property Law, and in the 2010 publication of Best Lawyers in America.

Tim H. Oien

President, Creative Solar Structures

Tim is a creative executive who acts with personal confidence, integrity and professionalism. His proven accomplishment in design, management and fabrication methodologies has earned him high regard and reputation with customers, vendors and peers. He has strong corporate and business development experience coupled with budgeting and finance management expertise. Tim is skilled at producing creative solutions with vision, problem solving, and value engineering.

Tim's experiences include:

Scenic View Inc. - A founding partner of a design, fabrication and installation company in Chicago, Illinois that created thematic environments across the nation and other countries for 18 years.

He has designed, managed and created thematic projects including the following: entertainment Industry, retail facilities, and museums, theme parks training simulation, restaurants, and corporate business theatre.

CS2-Creative Solar Structures- Had the vision to combine Creative artistic structures with Renewable Energy technology creating an entire new niche in this industry. A Founding member of CS2 and is the Director of Creativity and New Business.

Tim is an active member of the International Association Amusement Parks Association, Illinois Solar Energy Association, and the Midwest Renewable Energy Association

Mil Ovan

Senior VP & Founder, Firefly Energy Inc

Mil Ovan is a senior executive with more than 20 years of experience focused on introducing innovative high technology products and services and creating new market categories. Mil has built and run start-up companies, and has created new divisions at Fortune 500 companies.

Mil is currently co-founder and Senior Vice President of Firefly Energy, a Peoria, Illinois-based company which has developed a next generation battery technology that has the opportunity to address major portions of the \$30 billion worldwide battery marketplace. Firefly's Microcell™ foam-based battery technology can deliver a unique combination of high performance, extremely low weight and low cost, all in a battery which utilizes the best aspects of lead acid chemistry while overcoming the corrosive drawbacks of this same chemistry. The company was formed in 2003 after its technology, technical founder, and initial seed funds were spun out of Caterpillar, Inc.

Prior to Firefly, Mil served as President and Co-founder of Verascape, a \$10 million start-up providing voice recognition infrastructure to major enterprises and carriers. Prior to Verascape, Mil was Vice President of Marketing and Business Development for WarpSpeed Communications, a \$30 million Bay Area start-up funded by AT&T, 3COM, and New Enterprise Associates, providing broadband-on-demand Wide Area Network services. Before joining WarpSpeed, Mil spent 12 years at Motorola, where he was at the forefront in the creation and/or advancement of new communications categories such as Cellular Telephones and Systems, Wireless Local Area Networks and Wireless PDAs. Just prior to leaving Motorola, he was the co-founder and executive director of the Wireless Broadband Systems division.

Mil received a Masters of Business Administration in Marketing from Northwestern University's Kellogg Graduate School of Management. He holds a Bachelor of Science degree in International Business from Elmhurst College. A business innovator and pioneer, Mil is active in High Tech, education, civic and industry organizations, is a noted speaker on high technology issues at major industry conferences, as well as a quoted expert in high tech marketing in such media as Fortune Magazine and the Wall Street Journal. He is past President of Elmhurst College's National Alumni Association, and is the 2007 winner of the College's Alumni Merit Award.

Sid Parks

Manager, Precision Farming, GROWMARK, Inc.



Sid Parks is the Manager, Precision Farming with GROWMARK, Inc. of Bloomington, Illinois. Serving in this capacity since early 2000, he oversees development and implementation of GROWMARK Agronomy's precision farming products and services.

Sid is a Certified Professional Agronomist - CPAg and Certified Crop Adviser - CCA. He holds a B.S. degree in Ag Science from Illinois State University, and has graduate training in GIS applications from IUPUI and the University of Idaho, and in Crop Sciences from the University of Illinois.

In addition to his responsibilities working with GROWMARK and FS companies, he assisted with program development and served as adjunct instructor for Illinois State University, teaching a course on concepts and technologies of site-specific management. He has served on the Illinois Department of Agriculture

Fertilizer Research and Education Council (FREC) and the National Science Foundation Visiting Committee for Agricultural Technology. He has made numerous presentations to many various local, state, and regional groups on Precision Farming and agriculture information management.

Prior to his current responsibilities, he served as a Precision Farming Agronomist, State Field Agronomist, and as a Regional Seed Sales Agronomist. Prior to joining GROWMARK in 1989, Sid worked as a District Sales Manager and a Production Agronomist with a major seed company. Sid was raised on a grain and livestock farm in Western Illinois.

Larry Pfafflin

General Manager & Business Development Manager, Tempest Wind Energy

Larry Pfafflin is the Business Development Manager for Tempest Wind Energy, an Illinois manufacturer of mid-size wind turbines. He has over 25 years prior experience with Westinghouse, Ingersoll Machine Tools and Mitsubishi Heavy Industries in the engineering and sales of machinery related to nuclear, fossil fuel and renewable power generation. He has a Mechanical Engineering degree from University of Maryland and a Masters in Environmental Management and Sustainability from the Illinois Institute of Technology.

Carol Priefert

Senior Global Product Development Manager, Whirlpool Corporation

Currently a Global Product Development Manager, Carol Priefert has been involved in educating others about the needs of the household manager as it relates to the Internet and technology for over the past 11 years. She is author of the book Home and Family Internet Resource Guide and lectures on the topic. Priefert is a graduate of the University of Nebraska with a BS degree in Family and Consumer Science and has taken MBA classes at Michigan State. She has worked for companies such as ED & F Mann, GE, and Merill at various product development and marketing positions.

J.B. Pritzker

Managing Partner and Co-founder, The Pritzker Group and Founder of New World Ventures



Mr. Pritzker is Managing Partner and co-founder of The Pritzker Group, a private investment firm, and founder of New World Ventures, an early-stage information technology investors. A founding board member of the Illinois Venture Capital Association, a founding director of the Chicagoland Entrepreneurial Center, and founder of the public/private Illinois Innovation Accelerator Fund, Mr. Pritzker has been a leading proponent of a stronger technology sector focus in the Midwest.

Founded by Mr. Pritzker in 1996, New World Ventures invests in early stage information technology companies, principally focused on enterprise software, IT infrastructure and IT managed services. The firm is among Chicago's leading VC investors and has been among the earliest lead investors in over 40 companies, including Lefthand Networks, Everdream, TicketsNow.com, Sportvision and eCollege.com.

Mr. Pritzker is also co-founder and Managing Partner of The Pritzker Group, a private investment firm acquiring late stage companies in a wide range of business sectors including industrial, business services, media, and technology. Acquisitions have included aircraft safety product manufacturer Amsafe, investment casting manufacturer Signicast and construction materials distributor Carter-Waters.

In 2008, the Chicagoland Chamber of Commerce awarded Mr. Pritzker the Entrepreneur Champion Award for his efforts assisting business creation. Crain's Chicago Business honored him with the designation as a business leader in its "40 under 40," and "Who's Who of Chicago Business." The Chicago Sun-Times named him to its "Hot 100" most prominent members of Chicago's technology economy, and The City Club of Chicago awarded him Citizen of the Year. He received the Humanitarian Award from the Holocaust Memorial Foundation of Illinois for his philanthropic activities, and he was awarded the Spirit of Erikson Institute Award for his work fighting child poverty.

As President of the Pritzker Family Foundation, he founded the Children's Initiative which funds innovative research and programs serving children in poverty and the Pritzker Consortium on Early Childhood

Development at the University of Chicago led by Nobel Prize winning economist James Heckman. Along with the Gates, Buffett, Harris and Kaiser foundations, the Children's Initiative is a principal backer of the First Five Years Fund, an organization committed to improving the lives of at-risk children by leveraging cost-effective investments in early learning. The foundation is also the principal funder of the Cambodian Tribunal Monitor, providing internet broadcasts of the 2008 trials of Pol Pot era acts of genocide. Mr. Pritzker is a trustee and serves on the investment committee of Northwestern University and is a member of the Board of Governors of Northwestern University School of Law. He is a Trustee of the Field Museum of Natural History and a member of the Economic Club and the Commercial Club of Chicago. As Chairman of the Illinois Human Rights Commission, he was recognized for his outstanding achievement in reforming the Commission which is the state's chief civil rights adjudicatory agency for housing and employment discrimination. As Chairman of the Illinois Holocaust Museum campaign he has led the effort to build one of the world's leading Holocaust museums. The new museum is under construction in the Chicago area and scheduled to open in early 2009.

Mr. Pritzker is an attorney and a member of the Illinois and Chicago Bar Associations. He graduated with an A.B. in political science from Duke University and earned his J.D. from Northwestern University School of Law. He lives in Chicago, Illinois with his wife and children.

Charles Provini

President, CEO and Director, Natcore



Mr. Provini holds an Engineering degree from The U.S. Naval Academy in Annapolis, Maryland and a Masters from the University of Oklahoma. He was the President of Ladenburg Thalmann Asset Management and a Director of Ladenburg Thalmann, Inc., one of the oldest members of the New York Stock Exchange, and has served as President of Laidlaw Asset Management as well as Chairman and Chief Investment Officer of Howe & Rusling, Laidlaw's Portfolio Management Advisory Group. Prior to this, he served as President of Rodman & Renshaw's Advisory Services and President of LaSalle Street Corporation, a wholly owned subsidiary of

Donaldson, Lufkin & Jenrette.

Mr. Provini has been a leadership instructor at the U.S. Naval Academy, Chairman of the U.S. Naval Academy's Honor Board and is a former Marine Corp. officer. He is a frequent speaker at financial seminars and has appeared on "The Today Show" and "Good Morning America," discussing financial markets.

Manian Ramesh, PhD.

Chief Technology Officer, Nalco Company

Dr. Mani Ramesh is the Chief Technology Officer for Nalco Company, a premier service organization addressing the water, energy, air and process based needs of various industries. He holds a Ph.D. in Organic Chemistry and was a Welch fellow at Texas A&M University with Nobel Laureate Sir Derek Barton. He joined Nalco in 1990 as a Senior Chemist in the Corporate Research group. Prior to his current role, he served as Vice President, Research and Development from September 2002 to October 2003 and Vice President Water and Core Technologies from October 2003 to June 2006 and Vice President Process, Water and Core Technologies from July 2006 to May 2007. He holds 48 United States patents and has authored more than 50 peer-reviewed technical publications. He has been an invited speaker at numerous international technical and trade conferences.

Dr. Ramesh has served several executive committees including the Water Energy Nexus under the U.S. Congressional Committee for Energy as well as in various selection committees for prestigious awards such as US Presidential Green Chemistry Challenge Award.

Jeffrey L. Roseberry

President and Founder, Promark Associates



A native of Tulsa, Oklahoma, Jeff received his Bachelor of Science in Chemical Engineering from the University of Tulsa and a Masters in Business Administration from the Kellogg School of Management at Northwestern University. He held management positions in Mobil Oil's Special Products Division and at PQ Corporation before joining Carus Chemical, where he was responsible for bringing a new air purification product—potassium permanganate on alumina—to market. This filtration media has become a basic tool for solving IAQ problems and preventing corrosion.

Jeff started ProMark to further his vision of innovative gas phase air filtration products. His vision has been realized with the groundbreaking Total Spectrum Air Purification System. Total Spectrum® leads the way to indoor air quality never before achieved with conventional filtration and ventilation. Total Spectrum's development, design, and construction unite emerging technologies that are energy efficient and sustainable. Jeff is a member of ASHRAE and sits on the Technical Committee 2.3 for Gaseous Air Contaminants and Removal Equipment Standards.

Michael Rosen

Senior Vice-President, New Business Development for Forest City Enterprises' Science + Technology Group

Michael Rosen is Senior Vice-President, New Business Development for Forest City Enterprises' Science + Technology Group, a U.S. real estate developer which creates and manages life science parks, including the Illinois Science + Technology Park in Chicago. Prior to this, he was president of Rosen Bioscience Management, a consulting company providing CEO expertise to Midwest start-up life science companies. He is a veteran of the biotechnology and pharmaceutical industries, having spent twenty years with three major pharmaceutical companies, Pfizer, Bristol-Myers Squibb, and Monsanto/Searle, in international marketing, business development, and management roles. Additionally, he has been CEO of European and U.S. biotech companies, including PharmaMar (oncology products); and Endorex (drug delivery and cancer products company located in Chicago) which he listed on the Amex. Mr. Rosen is a member of the board of directors of the Illinois Biotechnology Industry Organization ("IBIO"), of which he was a co-founder and where he has served as Vice-Chairman. He is a vice-president, and co-chair of the Life Science Practice of the America-Israel Chamber of Commerce –Chicago. He is also the biotech columnist for MidwestBusiness.com and is a professor of International Management and International Marketing at the Lake Forest Graduate School of Management MBA program. Mr. Rosen received his B.A. in Sociology & International Relations from Beloit College, and his M.B.A. in International Business from the University of Miami. Mr. Rosen serves as a member of Northwestern University's Industry Advisory Board for its Masters of Biotechnology program.

Paul Sebesta, PhD.

Director, USDA-Agricultural Research Service, National Center for Agricultural Utilization Research

Paul Sebesta earned his B.S., M.S., and Ph.D. degrees from Oklahoma State University. Dr. Sebesta began his research career in 1980 as an Assistant Professor of Agronomy and winter wheat breeder at North Dakota State University. In 1982 he assumed the position of project leader with HybriTech Seed International, Inc., a Monsanto subsidiary. Dr. Sebesta began his administrative career in 1987 as a unit head with the Texas Agricultural Experiment Station, Texas A&M University, where he was responsible for intellectual property rights management, plant materials licensing as well as foundation seed production, distribution and marketing. From 1995 to 2004 he served as the Director of the University of California Desert Research and Extension Center (DREC) in El Centro California. While at DREC his research focused on the use of sugarcane and sweet sorghum as feedstocks for the production of ethanol, electricity and other value-added bioproducts. In 2004 Dr. Sebesta was employed by the National Audubon Society as a program director. He began his tenure with ARS in June of 2005 and served as the director of the USDA-ARS Kika de la Garza Subtropical Agricultural Research Center in Weslaco, Texas from 2005 to 2008. In 2008 Dr. Sebesta assumed his current position as the Director of the National Center for Agricultural Utilization Research in Peoria, IL.

Ori J. Sivan

Green Entrepreneur/Sustainability Consultant



Like many children of the 70's, Ori Sivan grew up convinced that ecological collapse was just around the corner. In his early adulthood he was introduced to the concept of Sustainable Development, a philosophy that reconciles the opposing struggles for economic growth and environmental improvement. Empowered by the belief that sustainability held the key to avoiding ecological disaster and drawing on leadership skills honed in the Israeli Army, Ori quickly became a recognized force in the emerging sustainability movement: presenting academic papers on environmental economics; organizing student groups; developing curriculum; and consulting to businesses and organizations (including General Electric and The City of Chicago).

In 2005, Ori was moved to action by his conviction that engaging the marketplace is the most effective way to foster environmental improvement and sustainable economic growth. He started Greenmaker Supply Company, a one-stop shop for green building materials. Ori's visionary approach to green marketing became an award winning phenomenon. His Seven Seeds of Sustainability® have been featured in Entrepreneur Magazine and on NBC, NPR and countless other national media outlets.

In the fall of 2008, Greenmaker merged with New York-based Green Depot to create the nation's largest and most sophisticated chain of green building supply stores. Ori serves as Director of Market Development overseeing product development and business development, borrowing from his entrepreneurial skills as well as his environmental expertise.

Ori holds a Master's degree in Environmental Engineering from Northwestern University and a Bachelor's degree in Civil and Environmental Engineering from the University of Iowa. Ori is a charter member of the University of Iowa, College of Engineering Young Alumni Advisory Board where amongst other activities he consults on the development of sustainability curriculum for the College.

Dr. Rishi Shukla

Global Technology Leader, Archer Daniels Midland Company

Dr. Rishi Shukla is Global technology leader at Archer Daniels Midland Company Decatur, IL. Dr. Shukla has been involved for over 14 years in the pilot scale process development of novel processes for biofuels processing. At ADM since 2000, he has extensive technical experience with the production and recovery of ethanol and other related biofuel transportation fuels. He is a member of ADM's Water Sustainability Committee and oversees ADM's membrane applications research. He is a graduate of University of Illinois and Indian Institute of Technology, Delhi.

Charles Smith, AIA, LEED-AP

Principal, OWPP – Cannon Design

Known for his high energy and demand for design excellence, Charles, is recognized as a leader in the higher education market based on the creativity of work, inventiveness of approach, and the quality of solutions he provides.

A key member of OWP/P's management since 1997 and a principal of the firm, Charles has served as a project principal for many significant higher education and laboratory projects over his 22-year career. He believes a holistic and integrated approach to architecture—from project management to technical—contributes to a project's success. Charles has been actively involved in the American Institute of Architects in Chicago since 1996, including serving as President, and is a member of Society for College and University Planners.

Seth W. Snyder, Ph.D.

Section Leader, Process Technology Research, Energy Systems Division, Argonne National Laboratory

Seth Snyder received a B.A. from University of Pennsylvania and a Ph.D. from the University of Virginia. After a postdoctoral fellowship at Argonne in Photosynthesis, he worked at Abbott Laboratories, in

Alzheimer's and Pharmaceutical Discovery Research. In 1998, Seth rejoined Argonne as the Associate Director of the Chemistry Division where he developed new programs in nanoscience and applied biotechnology. In 2001, he joined the Energy Systems Division as the Section Leader of Chemical and Biological Technology and now Process Technology Research. His team develops new process technologies ranging from tree growth through fermentation and product separations with a focus on energy efficiency and catalysis for chemicals and biofuels, materials recycling, thin film technologies for photovoltaics, biobased products, CO2 capture, and water technologies. He serves as Argonne's Lab Relationship Manager for the DOE Office of Biomass, on the DOE Industrial Technologies Program, National Lab strategic planning group. 2010 chair of the Council for Chemical Research, on the State of Illinois Biofuels Task Force, iBIO AgBiotech task force, and on the steering committee for several academic centers in renewable energy. He has published over forty papers, has ten patents and has received two R&D 100 awards.

Richard (Rick) Stephens

Senior Vice President, Human Resources and Administration, The Boeing Company & Chairman of the Board, Global Midwest Alliance LLC



Richard (Rick) Stephens is Senior Vice President, Human Resources and Administration for The Boeing Company. Stephens, a 30-year Boeing veteran, also is a member of the Boeing Executive Council.

Named to this position in 2005, he oversees all leadership development, training, employee relations, compensation, benefits, Global Corporate Citizenship, and diversity initiatives at the Chicago-based, \$60.9 billion, 159,000-person commercial airplane and defense company.

Prior to this assignment, Stephens, 57, served as senior vice president of Internal Services. During his career he has lead a number of businesses including Homeland Security and Services, Space Shuttle and Tactical Combat Systems at sites across the U.S. and around the world.

Stephens serves on a number of non-profit and business focused boards and has been recognized for his long-standing leadership to local and national organizations. Passionate about improving education both inside and outside of the classroom, he works directly with community leaders to agree on common language, shared values, vision, and measures of success. This furthers the goal of ensuring a future workforce capable of the complex critical thinking necessary to succeed in an ever-changing competitive market.

Stephens currently serves on the Department of Health and Human Services Health IT Standards Committee. Previously he served on the Department of Homeland Security Advisory Council; the Secretary of Education's Commission on the Future of Higher Education; and on the President's Board of Advisors on Tribal Colleges and Universities. He is a Fellow of the American Institute of Aeronautics and Astronautics, a member of the National Science Resource Center Advisory Board, a member of the Business Higher Education Forum, and is chairman of the Illinois Business Roundtable. Stephens also serves as the Boeing executive focal for the University of Southern California and is chair of Healthcare for the Orange County Business Council.

Stephens received his Bachelor of Science degree in mathematics in 1974 from the University of Southern California and his Master of Science degree in computer science in 1984 from California State University, Fullerton. Stephens is an enrolled member of the Pala Band of Mission Indians and served as its chairman from 1988-89. He is a former U.S. Marine Corps officer.

Matt Stewart

Senior Automotive Equipment Analyst, City of Chicago Department of Fleet Management

Matt Stewart is a Senior Automotive Equipment Analyst for the City of Chicago Department of Fleet Management. Since joining the department in 2006, he has been responsible for the purchase of alternative-fuel, hybrid and electric vehicles as well as implementation of diesel-emissions-retrofit, idle-reduction and other programs that reduce petroleum usage and emissions from the city-wide fleet, including police, fire, airports and sanitation. Ongoing programs in the department include implementation

of segments of the Chicago Climate Action Plan; a ten-percent increase, at minimum, in the size of the green fleet annually; and extensive grant-funded alternative-fuel and diesel-emissions initiatives. Matt formerly worked in fleet management at the Forest Preserve District of DuPage County, Illinois, a leading green fleet. Matt is a NAFA Certified Automotive Fleet Manager and received his B.A. in Anthropology from Wheaton College, Illinois.

Scott Stewart

Director-Business & Product Development, Canada, Direct Energy

As Director – Business & Product Development, Scott is responsible for the identification and advancement of new product/service and business opportunities in the evolving residential energy management space in Canada. Working with Direct Energy operations and external partners (energy, software, hardware, communications) Scott evaluates the operational and economic aspects of energy opportunities and supports Direct Energy leadership in the development of investment priorities in the area of energy efficiency and conservation. Prior to this appointment, Scott served as Director – Process/Operations, North America and General Manager – Atlantic Canada in Direct Energy's commercial services (HVAC and Energy Engineering) business, Director – Merger Integration and Director – Sales Operations. In addition Scott served as Project Director leading the 2006 initiative to reorganize Direct Energy's Canadian business lines.

Prior to joining Direct Energy, Scott spent time working in strategy consulting and for the first twelve years of his career worked in the downstream oil and gas industry with Imperial Oil in Canada. During his time at Imperial Oil, Scott served in management and technical roles including industrial product sales, marketing, controllers – internal audit, retail (gas and convenience store) operations, product pricing and lastly serving as General Manager Fleet Card – Canada, having responsibility for fleet card program sales and operations.

Scott is a professional engineer and received an MBA from the University of Toronto, Rotman School of Business.

Daniel G. Sullivan

Senior Vice President – Director of Economic Research, Federal Reserve Bank of Chicago



Daniel G. Sullivan is director of research and senior vice president at the Federal Reserve Bank of Chicago. Sullivan serves as chief economist and as a member of the Management Committee. He oversees the Bank's research in monetary policy, banking and financial markets, microeconomics and regional economics. In addition, he has supervisory responsibility for the Bank's consumer and community affairs unit and the public affairs department. Sullivan also attends meetings of the Federal Open Market Committee (FOMC), the group responsible for formulating national monetary policy.

Prior to his appointment as research director, Sullivan served as a senior economist and vice president and the team leader of the applied microeconomics group in the economic research department. His research is in the area of labor economics, especially issues related to displaced workers and alternative work arrangements.

Prior to joining the Chicago Fed, Sullivan was an assistant professor of economics at Northwestern University and has also taught at Princeton University. In addition he is an adjunct faculty member at the University of Chicago's Harris School of Public Policy. He has published articles in the American Economic Review, Econometrica, the Journal of Law and Economics, the Journal of Economic Perspectives, the Journal of Industrial Economics, the Journal of Political Economy and the Quarterly Journal of Economics. Sullivan received a B.A. in mathematics and statistics from the University of Chicago and a Ph.D. in economics from Princeton University.

Larry Tangel

CEO, Enercon Engineering, Inc

Larry Tangel is the current CEO of Enercon Engineering, Inc. Enercon is an international manufacturer of Custom engine generator controls, switchgear, packages & enclosures, power modules and co-generation packaged gensets. Under Mr. Tangel's leadership, these past 10 years, Enercon has experienced significant growth in revenue, even during this current recession, adding manufacturing capacity both at their East Peoria headquarters and in an additional facility near Atlanta, GA. In 2003 Larry served on the Executive Committee of the United States Clean Heat and Power Association (USCHPA) and in 2004 was the Chairman of the USCHPA. Larry has served on the board of the World Alliance for Decentralized Energy (WADE) since 2004. Larry joined Enercon in 1990 in the capacity of Marketing Manager and has held various executive positions for Enercon. Prior to joining Enercon, Larry spent 10 years working in the Financial Industry in Chicago, where his last position he managed the Margins Account of an Institutional Bond trading firm, responsible for daily investments of \$10-20 million. Finally Larry is a graduate of the Business Professional's Course, 2-year course of study, on the fundamental career and business strategies necessary to achieve business missions. Larry is actively continuing his education to deepen his knowledge and capacity in the domain of business offers, practices, narratives and strategies.

Monica Toporkiewicz

International Trade Specialist, U.S. Dept. of Commerce

Monica Toporkiewicz joined the U.S. Department of Commerce, U.S. Commercial Service in 2002. In her capacity as an International Trade Specialist, Monica provides counseling and marketing assistance to small and medium-sized companies that are interested in expanding business opportunities overseas. She is responsible for the industry sectors covering information technology, electronics, safety & security equipment, construction materials/tools, and rail equipment for the Chicagoland area. She is a member of the U.S. Commercial Service's Global Design & Construction, Information Communication & Technologies, Safety & Security and Trade Americas Teams, which bring together the resources of Commerce's worldwide offices. A native of Chicago, Monica majored in International Studies and Spanish at Illinois Wesleyan University and International Economics at The George Washington University Elliott School of International Affairs.

Steven Trout

Vice President and Funding Manager, Illinois Finance Authority

The Illinois Finance Authority (IFA) is a state conduit issuer of tax-exempt bonds & credit enhancement for projects in Illinois. The IFA funding is available to commercial as well as non-profit entities as long as those entities meet strict eligibility criteria. Specifically, entities seeking funding must demonstrate that their projects provide a significant public benefit for the citizens of Illinois. In 2009, the IFA was authorized by legislation (S.B. 1906) to provide funding via issuance of tax-exempt bonds for renewable energy projects. Through existing authorization, the IFA also provides funding to energy efficiency ("green") projects.

For the purposes of this program, renewable energy projects include those that utilize wind, solar thermal energy, photovoltaic cells and panels, biodiesel, crops and organic waste biomass, trees and tree trimmings, hydropower, Illinois-produced landfill gas, and "other alternative sources of environmentally preferable energy." (This definition is from the Illinois Power Agency Act). In addition, transmission lines and associated equipment used to transfer electricity created by renewable energy, as well as renewable energy storage technologies are eligible.

Bernice Valantinas

Vice President, ProMark Associates, Inc.

Bernice is vice president and co-owner of ProMark Associates, located in Skokie, Illinois. ProMark is a global provider of advanced indoor air purification solutions to industrial and commercial markets. Through extensive R & D and engineering excellence, ProMark has introduced clean technology that destroys airborne contaminants while delivering a ROI in operating and energy savings.

Bernice joined ProMark in 2000 to help launch exports to Mexico: a joint venture with GE resulted in sales of a unique refrigerator filter to retard produce spoilage. Exports, almost 50% of ProMark sales, have continued to grow in Mexico, Chile, the Middle East, and India.

ProMark is installing its award-winning air purification technology into the HVAC portion of a new airport terminal in New Delhi and a racetrack and hotel complex in Dubai. As the point person on export operations, Bernice is responsible for export business planning including bid process, sales support, finance, trade compliance, and so on.

Prior to joining ProMark, Bernice spent 20 years in healthcare marketing and philanthropy. She received her MBA from the Kellogg Graduate School of Management at Northwestern University. Bernice and her husband Jeff Roseberry, founder of ProMark and fellow Kellogg alum, live in Evanston.

Catherine Vial

Environmental Industries Team Leader, US Department of Commerce

Catherine Vial is the U.S. Department of Commerce's Team Leader for Environmental Industries in the Office of Energy and Environmental Industries. Her office's primary mission is to enhance the global competitiveness of U.S. energy and environmental firms by recommending policies and implementing programs that strengthen domestic capacity and promote U.S. exports.

Her responsibilities include working with 13 industry analysts both in the environmental and the energy teams, and providing leadership and counsel on issues related to clean energy and environmental technologies.

Catherine has been with Commerce for 25 years. In her last position, she was based in Brussels at the U.S. Mission to the European Union as the U.S. Department of Commerce's first overseas Trade Compliance Officer.

Danielle Waldman

Attorney, Gowling Lafleur Henderson, LLP



Danielle Waldman is an associate in Gowlings' Toronto office, practising in the area of business law with a specialization in technology, energy and infrastructure. Danielle's energy and infrastructure practice focuses on mergers and acquisitions, wind power projects, solar projects, corporate matters including structuring, financing and governance, and commercial and regulatory matters in the energy and infrastructure sectors. Danielle has also advised various international solar and wind developers with respect to entering the Canadian marketplace.

Danielle's technology practice includes preparing and negotiating software license and maintenance and support agreements, website development agreements and other Internet related agreements for various clients, including those in the energy and infrastructure sectors. She also advises clients with respect to privacy law matters, online consumer protection issues and financings of both early and mid-stage technology companies.

David Weisberg

Executive Director, Friends of the Arava Institute

David Weisberg serves as the Executive Director of Friends of the Arava Institute, the North American non-profit dedicated to raising visibility and support for the Arava Institute for Environmental Studies.

David began his tenure with Friends of the Arava Institute in 2007, after spending nearly a decade as the Executive Director of the Jewish Federation and Jewish Community Center of Greater Harrisburg.

Prior to his work in Jewish communal service, David spent the early parts of his career working in local government. David currently lives in rural central Pennsylvania, and is married with four daughters, making him just one short of Tevye.

Carsten H. Westergaard, PhD

Global Technology Director, Vestas Technology R&D, Americas, Inc



Dr. Carsten Hein Westergaard earned his PhD in 1994 at the Danish Technical University. His dissertation titled: "PIV measurements of turbulent structures" encompassed optical computing and optical flow measurements. Part of his research was completed with Prof. Ronald Adrian at University of Illinois.

He started his industrial career in wind technology as an aerodynamics blade designer. Through the years, he has been working with fluid and structure dynamics in many different industries. Joining Vestas Technology R&D, he started Vestas office on campus of the National Laboratory for Sustainable Energy in Denmark (Risø). Currently, he is assigned to Vestas' new research office in Houston as Director of Global Technology, guiding the establishment of Vestas' R&D portfolio in Houston. Also he is working with University collaborations and other external partnerships, such as TheWindAlliance.org.

Doug Widener

Executive Director, U.S. Green Building Council – Chicago Chapter

Doug Widener was named the Executive Director of the U.S. Green Building Council – Chicago Chapter in June 2006. In this role he is responsible for the management of the affairs of the local Chapter including formulation of new policies in concert with the Board of Directors and is responsible for daily implementation of Chapter programs, events and initiatives, and oversight of financial planning and budgets.

Prior to coming to the USGBC – Chicago Chapter, Doug served as Vice President of Education at the Peggy Notebaert Nature Museum of the Chicago Academy of Sciences. In this role Doug Widener was responsible for the funding, administration, research, development and implementation of all museum-based and outreach educational programming for the museum. Before becoming Vice President, Doug served as Director of Education at the museum and oversaw all museum-based education programs for students, teachers, and the general public. Doug also served as the co-Chair of the Education Team of Chicago Wilderness - a regional coalition of nearly 200 institutions working together to preserve the biological diversity of the Chicago region. Doug holds a Master of Science degree in Environmental Studies from Ohio University, Athens, Ohio. Outside of work Doug enjoys writing fiction, reading, physical exercise, music, mountain biking, spending time in nature, and spending time with family and friends.

Doug Willett

Advisor, Global Midwest Alliance & Principal, Professional Environmental and Energy Services



Doug Willett has more than 30 years experience in the environmental management and consulting field. He also provides support and consulting for renewable and alternative energy projects, energy efficiency, and sustainable solutions for industrial, commercial and governmental clients. Mr. Willett provides support on international opportunities for private equity groups, commercial developers, and manufacturers. He has several strategic relationships whereby he can provide sustainable alternatives to standard environmental and energy solutions such as treating asbestos to render it non-hazardous; municipal waste treatment to produce power, steam, and reusable byproducts; and zero discharge wastewater treatment. His experience includes site assessments; regulatory affairs; property redevelopment; mergers, acquisitions, and divestitures; compliance management; and business strategy and analysis.

Mr. Willett is a degreed Chemist and holds a real estate broker's license. He is an active member and Committee Chair of the Chemical Industry Council of Illinois, the Air & Waste Management Assn., the National Brownfields Assn., and the American Chemical Society. He presents often on a variety of topics related to energy and the environment, including sustainability.