

Global Solutions Summit
Biographies of Participants (Alphabetically)
April 9-10, 2014
Washington D.C.

Peter Adriaens, KeyStone Compact Group

Dr. Adriaens is Professor of Civil and Environmental Engineering, and Professor of Entrepreneurship and Strategy in the Ross School of Business, where he is affiliated with the Zell Lurie Institute for Entrepreneurial Studies. He is past-President of the Association of Environmental Science and Engineering Professors, a member-by-eminence of the American Academy of Environmental Engineering (AAEE), and Member of the Belgian Royal Academy of Applied Sciences, where he was recognized for bridging engineering and business entrepreneurship in academia and practice. Most recently, he was awarded a Finnish Distinguished Professorship, focused on portfolio financing models for CleanTech.

Following a 20-year career in technology development (environmental sensing, green buildings) and validation, his current work focuses on CleanTech innovation and entrepreneurship. Specific interests include business water risk models focused on financial risk assessment, reverse innovation strategies for new mobility strategies, and the development of indexes and investment portfolios in emerging cleantech clusters. He teaches courses on Business Models, Entrepreneurial Business Fundamentals, CleanTech Venture Assessment, and Sustainability Finance. He is co-developer of the KeyStone Compact™, a data-driven analytical and strategic positioning tool for that has been used by more than 1,000 global early and later stage companies in a wide range of investment domains (CleanTech, BioTech, ITC, space sciences), used by economic development organizations in the US, Europe and Asia.

He is co-founder and CEO of Water Risk Analytics, a big data and software analytics financial technology firm addressing equity and portfolio risk and performance issues related to ESG investments. He is CEO at The KeyStone Compact Group (www.keystonecompact.com), built around the KeyStone suite of tools addressing investment strategies across the business lifecycle. As co-Founder/Head Judge of the Global CleanTech Cluster Association (GCCA), his interest is in building out value chains for industrial renewal by screening, repositioning and connecting Cleantech clusters and companies (www.globalcleantech.org). With 56 clusters in the Americas, Asia-Pacific, and Europe, representing nearly 10,000 companies, and \$3.5 bn. under management, the GCCA catalyzes global value system development. For more information, see www.linkedin.com/in/peteradriaens/.

Tracy Barba, Chief Marketing Officer, Bamboo Finance

Tracy Barba is the Chief Marketing Officer for Bamboo Finance Private Equity. She is responsible for developing and managing the Bamboo Finance thought leadership initiatives including mapping the ecosystem, defining the strategies, identifying partnerships, facilitating collaboration, building programs and directing the launch and fundraising of fund products. Tracy has over 15 years of experience designing marketing strategies and fundraising initiatives for private equity funds,

investors, thought leaders and companies focused on catalyzing new markets. She was formerly the Executive Director for Golden Seeds, a 250 member angel investor network and venture fund investing in women-led companies. Prior to Golden Seeds, she was the VP of Marketing with VantagePoint Venture Partners CleanTech Practice; a \$1B cleantech private equity fund. She directed marketing at InterWest Venture Partners, a \$2.8B fund investing in early-stage Life Science and Information Technology companies, and Gabriel Venture Partners, a \$300M venture fund investing in disruptive models and capital efficient companies. She built the programs and led the training consulting services practice based on the best-selling book Slide:ology for Duarte, the firm behind the presentation for "An Inconvenient Truth." She has provided marketing, strategy and development services to Take Action Impact Investing Conference Series, a convening of asset managers and investors focused on impact investing; Hub Ventures, an accelerator focused on funding early-stage social enterprises; Big Bang Philanthropy, a network of foundations focused on funding solutions to poverty and getting the most impact for their money; and New Media Ventures, the first national network of angel investors focused on funding startups that are creating progressive political change. She has been a mentor and faculty member to leading fellows programs including Global Social Business Incubator, Pipeline Fellowship, PopTech Social Innovation Fellows, Unreasonable Institute, Echoing Green, and Rainer Arnhold Fellows.

Alex Beehler

Alex Beehler is a member of FaegreBD Consulting's energy, climate and environment team where he provides strategic advice and facilitates access on environment, energy and sustainability matters for clients to government agencies, particularly the U.S. Department of Defense and the military components.

Alex held several key positions with the Department of Defense in Washington, D.C., from 2004-09. He was Acting Deputy Under Secretary of Defense for Installations & Environment; Assistant Deputy Under Secretary for Environment, Safety & Occupational Health (ESOH); and Principal Deputy to the Deputy Under Secretary with Top Secret Clearance.

William B. Bonvillian, MIT

Since January 2006, he has been Director of the Massachusetts Institute of Technology's Washington Office, reporting to MIT's President. At MIT, he works to support MIT's strong and historic relations with federal R&D agencies, and its role on national science policy. He has assisted with major MIT technology policy initiatives, on energy technology, the "convergence" of life, engineering and physical sciences, advanced manufacturing and online higher education. Prior to MIT, he worked for over fifteen years as a senior policy advisor in the U.S. Senate on legislative efforts on science, technology and innovation issues.

He teaches at Georgetown Johns Hopkins SAIS, and MIT and has lectured and given speeches before numerous organizations on innovation questions, including invited lectures at six universities. He served for seven years on the Board on Science Education of the National Academies of Sciences, and has served on four Academies' Committees. He is on the AAAS Committee on Science, Engineering and Public Policy and on the Board of the Information Technology and Innovation Foundation (ITIF). He was the recipient of the IEEE Distinguished Public Service Award in 2007 and was elected a Fellow by the AAAS in 2011.

His book, with Distinguished Prof. Charles Weiss of Georgetown, entitled *Structuring an Energy Technology Revolution*, was published by MIT Press in 2009 and has written extensively on science and technology policy for academic journals. Prior to his work in the Senate, he was a partner at a large national law firm and served as a Deputy Assistant Secretary at the U.S. Department of Transportation, working on major transportation deregulation legislation. He received a B.A. from Columbia with honors, an M.A.R. from Yale in religion, and a J.D. from Columbia Law School where he was on law review; and clerked for a noted federal judge.

Mathew J. Burrows, Atlantic Council

Dr. Mathew J. Burrows serves as director of the Atlantic Council's Strategic Foresight Initiative in the Brent Scowcroft Center on International Security. He was appointed counselor to the National Intelligence Council (NIC) in 2007 and director of the Analysis and Production Staff (APS) in 2010. As director of APS, Burrows was responsible for managing a staff of senior analysts and production technicians who guide and shepherd all NIC products from inception to dissemination. He was the principal drafter for the NIC publication *Global Trends 2030: Alternative Worlds*, which received widespread recognition and praise in the international media and among academics and think tanks. In 2005, he was asked to set up and direct the NIC's new Long Range Analysis Unit, which is now known as the Strategic Futures Group.

Burrows joined the CIA in 1986, where he served as analyst for the Directorate of Intelligence (DI), covering Western Europe, including the development of European institutions such as the European Union. From 1998 to 1999 he was the first holder of the intelligence community fellowship and served at the Council on Foreign Relations in New York. Other previous positions included assignments as special assistant to the US UN Ambassador Richard Holbrooke (1999-2001) and deputy national security advisor to US Treasury Secretary Paul O'Neill (2001-02). He is a member of the DI's Senior Analyst Service.

Burrows graduated from Wesleyan University in 1976 and received a PhD in European history from Cambridge University, England in 1983.

Mildred O. Callear, Executive Vice President and Board Member, Small Enterprise Assistance Funds (SEAF)

Mildred Callear has more than 25 years of experience in the emerging market investment arena. She serves as the Executive Vice President of SEAF and as a member of the SEAF Board of Directors. SEAF is a manager of socially responsible private equity and investment funds investing in small and medium sized enterprises (SMEs) in emerging markets. She shares worldwide management responsibilities for SEAF with the Executive Chairman and CEO and has broad oversight as a Director on SEAF's board. She is involved in establishing and implementing corporate policy in a wide variety of areas and serves on a number of SEAF fund boards and investment committees. Over its more than 20-year history, SEAF has invested \$450 million globally on committed capital of more than \$650 million. SEAF has made more than 400 investments in 32 funds (both debt and equity) and has 20 offices globally. SEAF is actively pursuing investments that deploy proven technology to address environmental challenges in frontier markets.

Ms. Callear has served on the Executive Committee of the Aspen Network for Development Entrepreneurs (ANDE) since its beginning. ANDE is the global network of nearly 200 organizations that promote small and medium enterprises and entrepreneurship in emerging markets.

Prior to joining SEAF, Ms. Callear served for almost 20 years with the Overseas Private Investment Corporation, the U.S. government's development finance institution focused on private investment in the emerging markets. For 13 years she was the Vice President/Treasurer and Chief Financial Officer, served on OPIC's investment committee and managed OPIC's environmental, economic and social impact programs. Ms. Callear served as OPIC's Chief Executive Officer on an interim basis in 1993 and 1997. Early in her career, Ms. Callear was a lawyer in private practice in Washington, D.C.

Ms. Callear graduated summa cum laude and Phi Beta Kappa from the University of Illinois in 1976 and cum laude from Georgetown University Law Center in 1979.

Hela Cheikhrouhou, Green Climate Fund

Ms. H la Cheikhrouhou is the Green Climate Fund's first Executive Director. In her initial six months, the Fund has opened its Headquarters in South Korea and is making steady progress towards becoming operational, through Board decisions about the primary policies of the Fund. The Fund is envisaged to grow over time into the leading funding facility for climate change actions in developing countries.

Ms. Cheikhrouhou, a Tunisian national, was previously Director of the Energy, Environment and Climate Change Department at the African Development Bank, where she took a lead role in scaling up green growth and climate resilient investments, with innovative blending of public, private, and climate finance.

Educated in Tunisia and Canada, she started her career in the private sector as an investment banker with Citibank for seven years, lastly responsible for market risk management in North Africa. She has further spent ten years working in multilateral development banks, first in the Latin America and Caribbean region of the World Bank, and then for the African Development Bank, initially with the responsibility for growing the Bank's infrastructure project finance activities across Africa.

E. William Colglazier, Science and Technology Adviser to the Secretary

E. William Colglazier, Ph.D. was appointed in July 2011 as the fourth Science and Technology Adviser to the Secretary of State. The mission of the Office of the Science and Technology Adviser to the Secretary (STAS) is to provide scientific and technical expertise and advice in support of the development and implementation of U.S. foreign policy. The Adviser serves as an advocate for science-based policy at the State Department, helps to identify and evaluate emerging scientific and technical issues that affect U.S. strategic interests, brings scientific expertise to the Department, and helps to promote scientific and technological capacity-building and science-based policymaking internationally. The Adviser also provides outreach to the U.S. and international scientific community and helps to facilitate scientific cooperation between the United States and other countries.

From 1994 to 2011, Dr. Colglazier served as Executive Officer of the National Academy of Sciences (NAS) and the National Research Council (NRC). From 2000 to 2011 he also served as NRC Chief Operating Officer. In these roles he helped to oversee the studies conducted by the NRC, which is the operating arm of the NAS, the National Academy of Engineering, and Institute of Medicine. Working together they provide independent, objective advice to the nation on public policy issues where insights and expertise from science, technology, and medicine are needed. From 1991 to 1994, Dr. Colglazier was Executive Director of the Office of International Affairs of the NAS and NRC, overseeing collaborative projects with scientific organizations in many countries.

From 1983 to 1991, he was Professor of Physics and Director of the Energy, Environment, and Resources Center at the University of Tennessee where he worked closely with scientists at Oak Ridge National Laboratory. He received his Ph.D. in theoretical physics from the California Institute of Technology in 1971, and prior to 1983 worked at the Stanford Linear Accelerator Center, the Institute for Advanced Study in Princeton, and the Center for Science and International Affairs at Harvard's Kennedy School of Government. While at Harvard, he also served as Associate Director of the Program in Science, Technology, and Humanism of the Aspen Institute. In 1976-77, he was an AAAS Congressional Science Fellow working for Congressman George Brown (D-CA). He is past chair of the Forum on Physics and Society of the American Physical Society and a Fellow of the American Association for the Advancement of Science and the American Physical Society.

Dr. Colglazier strongly supports global scientific engagement by the United States to help advance science, solve global problems, and advance diplomacy. All countries see science and technology as important drivers of modern economies, instruments for national defense and homeland security, providers of new knowledge for improving public health, and essential assets for helping solve national, regional, and global problems. In this era of globalization where competition comes from smart people everywhere, the U.S. can remain at the cutting edge and a world leader in science and technology only by engaging with the scientific and technical communities in other countries. Such interaction also helps to encourage other countries to rely on their scientific and technical communities for science-based advice on important public policy issues.

Jonathan Coony, Coordinator, Climate Technology Program, infoDev - World Bank Group

Jonathan Coony is currently the Program Coordinator of the infoDev Climate Technology Program (CTP) at the World Bank. The CTP works with developing countries to innovate new technologies and business models that address local climate challenges and bring economic growth and job creation. Previously in the World Bank, Jonathan worked at ESMAP.

Before the World Bank, Jonathan worked at the International Energy Agency (IEA) where he led teams to review country energy policies and negotiate with governments on policy recommendations.

Jonathan was also a financial consultant to the private power sector for seven years, helping to structure project finance for greenfield IPPs and acquisitions in the US, Latin America and Asia. He also developed and marketed a renewable energy cooling technology in the Caribbean.

Jonathan holds an MBA from INSEAD (France), and MS and BS degrees in engineering from Brown University (USA).

Jonathan has written ten books on international energy policy and holds two US patents in renewable energy technology.

Alex Dehgan

Alex Dehgan is the founder of a new startup, Conservation X Labs, and is a senior visiting fellow in the Office of the Provost at Duke University and will be focused on three major initiatives at the university - innovation and entrepreneurship, globalization, and the tropical conservation initiative.

Dr. Alex Dehgan mostly recently served as the Chief Scientist at the U.S. Agency for International Development, with rank of Assistant Administrator, and founded and headed the Office of Science and Technology. As the Agency's first chief scientist in two decades, Dr. Dehgan implemented the President's promise to restore science and technology to its rightful place within USAID. During his tenure at USAID, Alex has been the architect of a number of new Agency institutions, including the position of the chief scientist, the independent office of science and technology, the position of the Agency geographer, and the GeoCenter. Alex built the Office of Science and Technology from scratch to an 80 person office, and \$100 M dollar research program, in less than four years, and leveraged or raised \$500 million dollars, including a \$200 M dollar commitment from the Swedish government to his office. In 2014, this program received congressional approval to become the new USAID Development Lab.

Prior to coming to USAID, Dr. Dehgan worked in multiple positions within the Office of the Secretary at the Department of State and the Bureau of Near Eastern Affairs where he developed a science diplomacy strategy towards addressing our most challenging foreign policy issues in Iraq, Iran, Afghanistan, and the greater Islamic world. Dr. Alex Dehgan was the founding Afghanistan Country Director for the Wildlife Conservation Society's Afghanistan Biodiversity Conservation Program. Through his leadership, WCS led efforts to create Afghanistan's first national park, conducted the first comprehensive biological surveys of the country in 30 years, helped develop Afghanistan's biodiversity conservation laws and policies, and curtailed illegal wildlife trade on US and ISAF military bases. Dr. Dehgan holds a Ph.D and M.Sc. from The University of Chicago's Committee on Evolutionary Biology, where he focused on extinction and adaptation of 12 lemur species during environmental change in tropical forests in Madagascar. He also holds a J.D. from the University of California, Hastings, and a B.S. from Duke University. He was chosen as an "Icon of Science" by *Seed Magazine* in 2005, received the World Technology Award for Policy in 2011, and has been recognized through multiple awards from the Departments of State and Defense, and the US Agency for International Development. In 2013, AAAS selected Alex as one of its *40@40 fellows* out of 2,600 AAAS Science Policy Fellows globally for its 40th Anniversary based on individuals who have made exemplary dedication to applying science to serve society, were creative, innovative, and collaborative problem solvers in addressing global challenges, and were uncommon ambassadors for the role of science and technology.

John M. Falk, Vigilant Inc., LLC

John M. Falk is the Founding Member and President of Vigilant Inc. L.L.C., started in December 2011 in response to the decade-long gap in federal government action for a comprehensive Bio-Terrorism Threat Response System. Joining forces a second time with General Klaus Schafer (former Assistant Surgeon General--U.S. Air Force) and Keith Copenhagen (formerly with DARPA and Total Immersion Software) the company is bringing forward Actionable Bio-Surveillance Intelligence solutions from Sensor-Fusion to Bio-Threat Alerts by leveraging advanced UAS/UAV

systems and Command Response software for the Defense, Homeland Security, Law Enforcement, Intelligence and First Responder community.

In 2009, Mr. Falk opened the Washington D.C. office for **Kestral-USA Ltd.**, served as its Managing Director. Mr. Falk represents U.S. companies, such as General Dynamics Land Systems, Westport Shipyard and Boeing/Insitu, within the Military, Homeland Security, and Technology sectors in the areas of Federal and International Business Development, Strategic Relations and Federal Procurement matters. Mr. Falk has successfully assisted numerous clients in the sale of products and services to Foreign Governments and the development of International markets for Military, Security, Law Enforcement, Infrastructure and Advanced Technology products and solutions.

In 2000 Mr. Falk founded and served as President of **Compressus, Inc.**, an advanced technology and software company that is providing medical imaging solutions for the health care industry, and was founded upon advanced compression techniques derived from Military and Intelligence Geospatial imagery technology and applications. Prior to Compressus, Mr. Falk served as a Strategic Advisor to Cyprus-Amax Mining, RAG Coal (later Foundation Coal) and Thompson Creek Mining in all facets of Federal Government matters affecting the mining industry.

Mr. Falk began his professional career as a Partner with **The Falk Law Firm**, with his practice focused in the areas of Civil Litigation (Intellectual Property, Unfair Competition, Government Contracts), Antitrust and High Technology with expertise in National Security and Government Contract law. Mr. Falk also served as the Executive Director of the Less-Than-Lethal Technologies Advisory Committee to the National Institute of Justice ("**NIJ**") —Office of Justice Programs (DoJ), supporting Federal Law Enforcement and specifically, Dr. David Boyd where he developed expertise in Interoperable Communications and pathways to leverage Federal Military investments in advanced technologies.

Mr. Falk's legislative experience includes service as a Legislative Assistant to Representative James Kolbe (R-Arizona), service as a Policy Advisor to the U.S. Senate Committee on Government Affairs and Senator David Pryor (D-Arkansas), service as the Research Assistant to Sir Eldon Griffiths, M.P. in The House of Commons-London, and work in the Office of Senator Robert Dole (R-Kansas).

In 1990, Mr. Falk was first confirmed by the U.S. Congress to serve on the Congressional Award Foundation Board of Directors, the only official charity of the U.S. Congress, which he served for twenty-one years. Senator Bill Frist nominated Mr. Falk in 2004 and he was confirmed by the U.S. Senate to serve as Chairman of the Congressional Award Foundation reporting to the Joint Leadership Commission of the U.S. Congress. Mr. Falk has also been recognized for his Public Service by receiving the President's Lifetime Achievement Award for Volunteer Public Service from President George W. Bush.

Mr. Falk received his Bachelor of Arts degree from Washington and Lee University with honors in 1986, with majors in Politics and Journalism. In 1986 Mr. Falk also received the Congressional Award Gold Medal from the United States Congress for his volunteer public service, initiative, and achievement. Mr. Falk returned to Washington and Lee University School of Law and received the degree of Juris Doctor in 1990. He was also the recipient of the University Service Award, the Francis J. Gilliam Prize, and the Sigma Delta Chi Achievement Award.

Mr. Falk has served as a Lecturer on the subjects of Federal Appropriations Law, Government Contracting and International Development to Federal Government Agencies. Mr. Falk is admitted to the U.S. Supreme Court Bar, the U.S. Court of Appeals for the Federal Circuit, as well as, Bars of the Commonwealth of Virginia

and the District of Columbia.

Banning Garrett, Atlantic Council

Banning Garrett is the strategic foresight senior fellow for innovation and global trends with the Atlantic Council's Strategic Foresight Initiative (SFI) in the Brent Scowcroft Center on International Security. He leads SFI's long-term cooperation with the National Intelligence Council (NIC) in production of the NIC's unclassified, quadrennial long-term global trends assessments, including *Global Trends 2030: Alternative Worlds*, released in 2012. He also leads the US-China joint assessment of long-term global trends project and provides thought leadership on the "Urban World 2030" program and on the foreign policy implications of emerging technologies.

Garrett was with the Council from 2003 to 2006. He was founding executive director of the Institute for Sino-American International Dialogue at the Graduate School of International Studies at the University of Denver in 2007 and was director of the Initiative for US-China Cooperation on Energy and Climate at the Asia Society's Center for US-China Relations from 2008 to 2009 when he rejoined the Atlantic Council. Garrett was also a consultant for twenty-two years to the US Department of Defense and other US government agencies carrying on a strategic dialogue with China. He was also a senior associate at the Center for Strategic and International Studies, a founding board member of the US Committee for Security Cooperation in the Asia Pacific, and an adjunct professor of political science at The George Washington University.

He has made nearly sixty trips to China since 1981 for consultations with Chinese officials and analysts as well as numerous similar visits to Taiwan, Japan, and South Korea in East Asia. He has also traveled with the NIC to most of the G-20 countries for global trends consultations.

Garrett has written extensively on a wide range of issues, including longterm global trends, the implications of technology for US foreign policy; US-China relations and cooperation on climate change, energy, and other strategic issues; US strategy toward China; Chinese foreign policy and views of the strategic environment; globalization and its strategic impact; US defense policy and Asian security; and arms control and nuclear strategy. He has been published in numerous journals and media outlets, including *Arms Control Today*, *Asian Survey*, *The Asian Wall Street Journal Weekly*, *Chinadialogue*, *China-US Focus*, CNN.com, *The Far Eastern Economic Review*, *The Globalist*, *Global Times*, *International Security*, *Journal of Contemporary China*, *Journal of Asia Contemporary Southeast Asia*, *The Korean Journal of Defense Analysis*, *Le Monde Diplomatique*, the *New York Times*, *The Washington Quarterly*, and *YaleGlobal*, and has contributed to many edited volumes on Asian and strategic affairs. He is the coauthor of *War and Peace: The Views from Moscow and Peking* (1984).

Garrett received his BA from Stanford University and his PhD from Brandeis University.

Mark Grobmyer, Managing Director, P80 Group Foundation

Mark Wootten Grobmyer, graduated with a Bachelor of Arts degree, with honors, from Washington and Lee University and then studied law at the University of Arkansas School of Law where he was awarded his Jurist Doctor Degree. He also studied international law and business at the University of Exeter in England.

In private law practice, Mr. Grobmyer served as Chairman of an American Bar Association Committee on Financial Services. He also served for many years as Senior Partner of a commercial law firm where his legal practice focused on International and Financial Services Law. While

practicing law, Mr. Grobmyer also served as a Special Supreme Court Justice.

He has also served as a Senior Advisor to the American Gas Association, the American Society of Association Executives, the International Sister Cities Conference, The World Trade Association, The International Gas Center, the International Unconventional Energy Association, the International Center for Sustainable Development, the Congressional Awards Foundation and Chief Executive Magazine, the “Club Journal” of Fortune 1000 CEOs.

Recently Mr. Grobmyer is serving as a member of the Blue Ribbon Climate Panel, which is addressing how best to deal with methane as a damaging greenhouse gas. Mr. Grobmyer also serves as Managing Director of the Global Technology Deployment Initiative (GTDI) which assists technology companies, especially clean technologies, in accelerating their deployment internationally.

Mr. Grobmyer worked to organize and coordinate involved a joint meeting of the Club de Madrid (more than 93 former Presidents and Prime Ministers of more than 60 nations) and the P80 Group Foundation (works with world’s largest pension, sovereign wealth funds and insurance companies). This conference led to the signing of the Little Rock Accord, to mobilize billions of dollars to finance the deployment of technologies which can help address growing shortages of resources related to energy, water, clean air, food and medical services.

Mr. Grobmyer currently serves as a Managing Director of the P80 Group Foundation, which has established a Joint Task Force with the Club de Madrid to work to implement the Accord.

Christian Haeuselmann, swisscleantech Co-founder, GCCA Chairman

Christian Haeuselmann is an innovation-driven Swiss economist and serial entrepreneur. Christian has 20 years of experience in the Cleantech sector, both with start-ups and global organizations.

Today he lives in San Diego/California developing strategic partnerships between Swiss and US Cleantech entrepreneurs, as the co-founder of swisscleantech. swisscleantech is the leading business association driving innovation and sustainable policy development in Switzerland as well as business opportunities for Swiss Cleantech entrepreneurs and investors worldwide.

In 2010 he co-founded the Global Cleantech Cluster Association (GCCA), driving collaboration among 50 Cleantech clusters, representing 10’000 companies. Through its annual GCCA Later Stage Award the meta-cluster GCCA investigates, screens, and advises cleantech companies based on the KeyStone Compact method. The 20 best in class winners from 2011 and 2012 secured funding of more than USD 530 million since their award recognition. In 2013, GCCA signed a collaboration agreement with the P80 Group Foundation, bringing together the largest 80 pension funds and sovereign wealth funds that want to invest more in proven Cleantech solutions and deploy them worldwide.

In 1996 he won the young entrepreneur award for his first start-up company BKTech and the development and market introduction of the powerful FLYER electric bike. The FLYER electric bike defined a new vehicle category in Switzerland and Europe. In 1998 he was a strategic partner to launch Callabike in Munich, the first free-float and mobile phone-based bikeshare system worldwide, which was acquired by the German Railway AG. He got his MS in Business Administration at the University of Berne/Switzerland.

John A. Holloway, Director, European Investment Fund

Graduate with Degrees in Languages and in Business Studies. Married, with 3 boys.

John Holloway joined National Westminster Bank in 1976, where he spent four years in the International Division in London.

He joined the European Investment Bank in early 1980 and in over 20 years had different responsibilities in a number of EIB Lending Departments in Luxembourg and Rome.

In June 2000 he was appointed Director at the EIF, with the responsibility to develop Venture Capital and Portfolio Guarantee transactions in support of European small and medium-sized enterprises.

He is currently responsible for all Equity transactions entered into by the EIF, with approx EUR 10bn of assets under management invested in over 250 Fund Managers.

He is Chairman of the EVCA LP Platform Council, and also Vice-Chairman of the EVCA Board of Directors.

Aliza Inbal, Tel Aviv University

Aliza Inbal is Director of the Pears Program for Innovation for International Development at Tel Aviv University. She is recognized as one of Israel's primary experts on innovation for international development, and works closely with the Israeli government, private and entrepreneurial sector and academia in order to develop the institutional infrastructure to support significantly greater Israeli involvement in innovation for developing countries. Dr. Inbal is also the Deputy Director of the Food Security Program in Tel Aviv University. Before coming to academia, she had a lengthy career as a career diplomat in the Israeli foreign service, including posts at the European Union, United Nations and Kinshasa, as well as directing Israel's development aid program in the Middle East. She has also served as a Senior Evaluation Officer at the World Bank's Independent Evaluation Group, a speechwriter for Prime Minister Rabin and a radio news producer. Her Doctorate is in International Development Administration from George Washington University. Her work on innovation for development in Israel has earned her recognition in Israel's Maariv newspaper as one of the 100 most influential Jews in the world.

Christopher Knowles, European investment Bank

Christopher Knowles joined EIB in 1982 and has held a number of positions inside and outside Europe. Since January 2006 he has been part of a new initiative by EIB to reinforce its activity in sectors of high policy priority for the EU and in which the EIB seeks to develop innovative approaches. In this capacity he has a pan-European responsibility for a diverse portfolio of activities, which includes equity funds for infrastructure and clean energy, carbon finance, CCS, and structured lending in the energy and environmental sectors. From 2000 to 2005 he led the lending operations team responsible for EIB's financing in the transport and infrastructure sectors in Spain, closing €4-5 000 million of financing annually for Europe's largest national infrastructure programme, much of it in PPP form. He spent the 1990s doing broadly similar jobs throughout the Central European region, Finland and Greece and the 1980s in the African and Caribbean regions.

Prior to EIB he worked for the Lesotho National Development Corporation, the European Commission and Lazard Brothers. He has degrees in Economics and Management from the University of Durham.

Markus Lampinen, Founder & CEO, Crowd Valley, Inc.

Markus is an internationally awarded entrepreneur, active in pioneering new securities models worldwide at the intersection of the Internet and the securities markets. Markus serves as the CEO of Crowd Valley Inc, a US-based crowdfunding marketplace platform provider and part of the Grow VC Group. He is also a global investor and partner in the Grow VC Group. Since 2009, he has recruited over 120 individuals in the crowdfunding market, built up a global team on six continents, been named one of the top 100 thought leaders in crowdfunding and expanded operations to over 150 countries. In his earlier businesses, he served in diverse executive roles, taking on the responsibilities of CFO and increasing sales growth of over 270% per year over several subsequent years. Markus holds an M.S. and a B.A. in Economics.

Markus has pioneered new funding models in the US and Europe, advised policy makers worldwide—including the SEC, the European Commission and Italian regulator CONSOB—for more effective markets, and worked with visionary organizations such as the World Bank and the Kauffman Foundation to improve frameworks for new funding models, including crowdfunding, cross-border investments and private placements. He serves as a frequent public speaker on related themes.

Dawn Lippert, Director, Energy Excelerator

Dawn Lippert is the co-founder and director of the [Energy Excelerator](#), a startup program dedicated to solving the world's energy challenges, starting in Hawaii. The Energy Excelerator helps innovative energy companies succeed in Hawaii and the Asia Pacific with funding up to \$1M per company, strategic relationships, and a vibrant ecosystem. The program is funded by \$30M from the U.S. Office of Naval Research, the U.S. Department of Energy, and private investors.

Before moving to Hawaii in 2009, Dawn was a management consultant with Booz Allen Hamilton's alternative energy team in Washington DC. While at Booz Allen, she helped implement the Hawaii Clean Energy Initiative, a partnership between U.S. Department of Energy and the State of Hawaii to transform Hawaii from 90% oil dependence to 70% clean energy by 2030. She has also worked on clean energy and environmental projects in India, Africa, and Latin America.

In addition to leading the Energy Excelerator, Dawn founded and serves as president of WiRE (Women in Renewable Energy), a not-for-profit organization with over 200 members.

Dawn graduated cum laude from Yale University with a B.A. in environmental studies, and received her Master's degree from the Yale School of Forestry and Environmental Management.

Michael Metzler, Acting Director, Development Credit Authority, U.S. Agency for International Development

Michael Metzler is Acting Director of USAID's Development Credit Authority (DCA), a U.S.

government credit guarantee program that unlocks private financing in support of USAID development priorities.

Prior to this appointment, Mr. Metzler served as the Director of USAID's Economic Growth Office in Belgrade, Serbia. In that capacity, he structured a partial credit guarantee to make possible the first municipal bond issuance in the country's history.

Mr. Metzler has also served as a special assistant and adviser to several USAID administrators on issues related to financial markets, macroeconomic policy and regulatory reform. Before joining USAID, he was the director of a national house-building program for Habitat for Humanity International and served in the U.S. Peace Corps in Nepal.

Mr. Metzler is a graduate of the Johns Hopkins School for Advanced International Studies where he studied development finance and economics.

Leigh Moran, Calvert Foundation

Leigh serves as the Program Manager for IDEA, the International diaspora Engagement Alliance, a public-private partnership between the Calvert Foundation, the State Department and USAID, aimed at engaging diaspora communities in development and diplomacy in their countries of heritage. Leigh is also a Senior Officer on the Strategic Initiatives team at Calvert Foundation, focused on the design and implementation of investment initiatives based on key social impact areas. She is currently leading Calvert Foundation's work to develop a new initiative to engage diaspora communities to invest in the economic development of their country of heritage. Prior to Calvert Foundation, Leigh spent time at the NEC, worked with a microinsurance NGO in New Delhi, served as a consultant to Collaborative Support Programs of New Jersey and completed a Princeton-in-Asia fellowship in Hangzhou, China.

Matthew T.A. Nash

Matthew T.A. Nash is the center director of the Social Entrepreneurship Accelerator at Duke (SEAD), a USAID-funded development lab for scaling innovations in global health. As a managing director of the Duke Innovation and Entrepreneurship Initiative, Matt leads and supports social innovation and entrepreneurship programs across the university. Matt previously served as executive director of the Center for the Advancement of Social Entrepreneurship (CASE) at Duke's Fuqua School of Business where he launched the Global Consulting Practicum in Social Entrepreneurship, and is a visiting lecturer at Duke's Sanford School of Public Policy, where he teaches an undergraduate course on social innovation. Prior to coming to CASE in 2005, Matt was a senior consultant in strategy and change management with the public sector practice at IBM Business Consulting Services (formerly PricewaterhouseCoopers Consulting). In this position and previous consulting capacities, Matt served a diverse set of clients ranging from community-based organizations, including a nonprofit resource center, a community housing board, and a disabilities rights coalition, to large agencies such as World Vision, UNICEF and the U.S. Agency for International Development. Previously, Matt led the Leadership Institute at Yale's Center for Public Service and volunteered with the U.S. Peace Corps in Romania. Matt is a graduate of the Yale School of Management (MBA) and Yale College (BA), where he received the graduation prize for public

service. A recipient of Vice President Al Gore's Hammer Award for reinventing government, Matt was awarded the inaugural Member Achievement Award by Net Impact and an inaugural Award for Innovation in Social Entrepreneurship Education by Ashoka, the global network of leading social entrepreneurs.

Sherwood Neiss, Crowdfunding Capital Advisors (CCA)

Sherwood Neiss is a 3-time INC500 winner whose former company won E&Y's Entrepreneur of the Year. During the credit crunch Sherwood saw a need for a change in outdated securities laws. He co-created and lobbied for the Crowdfunding Framework used in the JOBS Act. President Obama signed it into law on April 5, 2012. CCA advises multilateral organizations, governments, NGO's, and other entrepreneurial stakeholders on understanding the multi-billion dollar crowdfunding market. He co-founded the Crowdfunding Professional Association (CfPA) & Crowdfund Intermediary Regulatory Advocates (CFIRA). He is an entrepreneur in residence and co-founder of The Program for Innovation in Entrepreneurial and Social Finance at the University of California Berkeley. He is co-author of *Crowdfund Investing for Dummies* (Wiley) and the World Bank Report *Crowdfunding's Potential for the Developing World*. He produces comprehensive Crowdfund Investing educational materials via [Success with Crowdfunding](#). He holds an International MBA from Thunderbird and a BA from Tulane University.

Gloria Nelund, Chairman and CEO, TriLinc Global, LLC

Gloria spent 30 years on Wall Street as one of the most successful and visible executives in the international investment management industry. After retiring from Deutsche Bank as CEO of their \$50 billion North America Private Wealth Management division, she co-founded TriLinc Global; an investment firm dedicated to launching and managing innovative impact investment funds that will exponentially increase private capital participation to help solve some of the world's most pressing challenges.

In addition to her activities with TriLinc, Gloria is Chairman and Independent Trustee for RS Investments, a mutual fund complex with more than \$20 billion in assets under management. She is also a life-long supporter of development-oriented philanthropic causes. Gloria currently sits on the board of multiple not-for-profit organizations and actively supports entrepreneurship research and education. She is an active speaker, and guest lecturer on Impact Investing and Ethical Leadership at conferences and several top business schools, including Columbia, Wheaton, Kellogg, MIT and Georgetown.

Catherine A. Novelli, Under Secretary for Economic Growth, Energy, and the Environment

Catherine A. Novelli was sworn in as Under Secretary of State for Economic Growth, Energy, and the Environment on February 18, 2014. In this capacity, she leads the State Department's efforts to develop and implement economic growth, energy, agricultural, oceans, environmental, and science and technology policies to promote economic prosperity and address global challenges in a transparent, rules-based, and sustainable system.

Prior to assuming her current duties, she was Vice President, Worldwide Government Affairs at Apple, Inc. In that role, Ms. Novelli headed a multinational international team responsible for Apple's federal, international, and state and local government relations and public policy.

Prior to her tenure at Apple, Ms. Novelli was a partner in the Washington office of Mayer, Brown, Rowe & Maw LLP where she assisted Fortune 100 clients on issues involving international trade and investment.

Formerly Assistant U.S. Trade Representative for Europe & the Mediterranean, Ms. Novelli coordinated U.S. trade and investment policy for the over 65 countries of Western Europe, Central Europe, Russia, the CIS, the Middle East and Northern Africa. She has taken a leading role in many of the most important U.S. trade negotiations in Europe, Russia, the Middle East, and North Africa. As the point person for the \$1 trillion economic relationship between the United States and Europe, Ms. Novelli led efforts to ensure access to the European market for U.S. manufactured and agricultural products.

Ms. Novelli was the lead strategist in creating the United States' free trade agenda with the Middle East. She led free trade agreement negotiations with Jordan, Morocco and Bahrain, Oman and United Arab Emirates. She chaired the Trade and Investment Framework Councils with a number of countries in the region, including Turkey, Egypt, Tunisia, United Arab Emirates, Qatar, Kuwait, Saudi Arabia, and Algeria, and worked on other broad-based, public-private initiatives in the region.

Ms. Novelli has also played a critical role for the United States in Central Europe, Russia, Ukraine and Central Asia. As the Deputy Assistant U.S. Trade Representative for Central and Eastern Europe and Eurasia, she negotiated most of the bilateral trade and investment agreements that underpin our economic relationship in that region.

Prior to joining USTR, Ms. Novelli served in the Office of General Counsel at the Department of Commerce. Ms. Novelli is a graduate of Tufts University, holds a law degree from the University of Michigan and a Master of Laws from University of London (with concentrations in international and comparative law at the London School of Economics and School of Oriental and Asian Studies).

Craig O'Connor, Export-Import Bank of the United States

Craig serves as the Director of Ex-Im Bank's Office of Renewable Energy that he helped to launch in 2008, and where he manages a team of six professionals. In the 5 years since this Office was created Ex-Im Bank has authorized over \$1.77 billion in support of renewable energy exports.

Mr. O'Connor works closely with renewable energy exporters, international customers, and project developers to create "Bankable" project structures.

Craig began his career at the Bank in January 1993, as the Loan Officer for the Middle East and North Africa, was appointed as the Bank's Environmental Liaison Officer in 1994, and served as a Director for International Business Development from 1998-2008, where he covered the Asia Pacific and Latin America Regions.

In addition to his position at the Bank, Craig has served as an Adjunct Professor of International Business at Georgetown University since 1997.

Vikram Raju, Global Head - Climate Change & Regional Lead - South Asia, Private Equity Funds, International Finance Corporation (IFC)

Vikram Raju is a Principal Investment Officer at the International Finance Corporation (IFC) and is the Regional Lead in South Asia for IFC's private equity funds and co-investment program. He also manages the global program for investment in Climate Change related funds. Vikram previously served as the Acting Regional Lead for East Asia.

Vikram has led over 40 investments in venture capital and private equity funds in India, China, Indonesia, Vietnam, Russia, Ukraine, Turkey, Poland and Mexico.

Prior to the IFC, Vikram spent over 15 years in the private sector in a career that included roles as an emerging markets fund manager with Lazard Frères and as a management consultant with McKinsey & Company.

Vikram has a Masters in International Affairs from Columbia University where he specialized in International Finance. He also holds a Masters in Management Studies (Finance) from the Bajaj Institute and a BA in Economics St. Xavier's College, Mumbai. Vikram is a CFA charter holder.

Andrew W. Reynolds, Senior Advisor, U.S. Department of State

Following two years in the private sector, Mr. Reynolds, a career civil servant, has worked at the U.S. Department of Energy (15 years) and State Department (25) in a range of science, technology and engineering fields and related strategic planning, technology forecasting and assessment, non-proliferation, export controls and cooperative research, among other areas of responsibility. He served as DOE Representative for Western Europe at the US Mission to OECD in Paris from 1983-1986 and as Science and Technology Counselor in the US Embassy in Rome from 1996-2000 under a limited Foreign Service appointment.

Before assuming his current position, Reynolds was Deputy and Chief of Staff in the Office of the Science and Technology Adviser to the Secretary of State from 2000-2011, where he supported four successive Advisers. He led efforts to increase S&T personnel and literacy at State and the U.S. Agency for International Development, strengthen outreach to the U.S. and global S&T community, and foster mid- to long-term strategic planning at State, USAID and across the U.S. government, including the defense and intelligence communities. Mr. Reynolds has been a strong advocate for the seminal role of science and engineering in diplomacy, development and international relations. He has received Meritorious and Superior Honor Awards for his service.

In his current assignment as Senior Advisor for Space and Advanced Technologies, Office of International Communications and Information Policy, Bureau of Economic Affairs, Mr. Reynolds continues to focus on these strategic areas and, inter alia, the use of information and communications technologies and space assets for development; S&T and engineering for urbanization and resilient infrastructure; natural hazards mitigation and recovery; disruptive technologies; innovation, Internet governance and cybersecurity. He also serves as Chairman of the UN Commission on Science and Technology for Development, in Geneva.

Mr. Reynolds earned a BA from the University of Virginia, combining pre-medical studies and international relations, including a year at the University of Copenhagen and Goethe Institute. He

earned MS degrees in engineering and applied science from George Washington University and strategic intelligence from the National Intelligence University. Mr. Reynolds speaks and reads Spanish, Italian, French, and some German.

David Roberts, Vice President, GSP Director, Singularity University

David Roberts is passionate about transforming the lives of a billion suffering people in the world through disruptive technological innovation. He is an M.I.T. and Harvard educated, award-winning CEO and serial entrepreneur. He is also a former Special Agent, decorated military officer, and career officer in the Executive Branch of the U.S. Government. He is regarded as one of the world's top experts on disruptive innovation in government and technology entrepreneurship.

David is currently Director of the Graduate Studies Program (GSP) at Singularity University. He was the GSP Director in 2012, the Faculty Director for Team Projects, Advisors, and Teaching Fellows in 2011, and is a GSP alum and elected class representative from 2010.

As a serial high-tech, award-winning CEO and entrepreneur, David has started ventures backed with over \$100 million of investment from Kleiner Perkins, Vinod Khosla, Cisco, Oracle, Accenture, In-Q-Tel and others. He has led pioneering start ups that span multiple industries in cloud-based software, education, healthcare, governance, risk management, and compliance.

After working briefly as an Investment Banker in the Mergers & Acquisitions Group at Goldman Sachs, New York he returned to serve the public as a government officer. David was the Distinguished Graduate of his government class and grew to Special Assistant to the Director of the largest single intelligence program in the U.S. budget.

David has led the development of some of the most complex, state-of-the art systems ever built to include space based satellite systems, unmanned air vehicle systems, and analytical fusion centers. He later led elite operational teams and continues to serve on U.S. Air Force Reserve status as a Mission Commander.

David began his government career as a military Special Agent and is the recipient of numerous awards and medals beginning early in his career with a personal citation from the Director of the FBI at age 23 for the arrest, and conviction of six international terrorists and illegal arms dealers.

David holds an M.B.A. from Harvard Business School and is a Distinguished Graduate at M.I.T. with a B.S. in Computer Science & Engineering and a major in Artificial Intelligence and Bio-Computer Engineering.

Harvard, Stanford, and Berkeley's Business schools have all written and taught case studies on David's leadership, management, and decision making. He has been featured on the cover of the Wall Street Journal, and in USA Today, Fortune Magazine, The New York Times, Business Week, CNN, Business 2.0, Harvard's Entrepreneurship Journal, PC World and dozens of others.

David and his startups have received dozens of awards to include Internet World's Net Rising Stars, Red Herring's Catch, top 50 Private Companies in the World, Red Herring Top 100 Private Companies in the World, USA Today's Tech Reviews Best Picks, Internet Outlook's Investors Choice

Award, Enterprise Outlook Investors Choice, Best of the Web from PC World, and Apple Computer's Premier Systems Integrator Award.

His fascination with technology began in fourth grade after building a hovering electric drone, to carry his younger sister to the bus stop, powered by what was formerly his mother's vacuum cleaner, and fortunately limited by the length of an electric power cord.

Rogério G. Ramos, Multilateral Investment Fund (MIF)

Rogério G. Ramos is an Investment Officer at the Access to Finance Unit of the Multilateral Investment Fund (MIF), part of the Inter-American Development Bank. Mr. Ramos has over 15 years of experience sourcing, structuring and monitoring private equity and venture capital funds in Latin America and the Caribbean, including several funds in Information Technology, Biotechnology, Clean Technology and Renewable Energy sectors. Prior to joining the MIF, Mr. Ramos worked at the Inter-American Investment Corporation (IIC), where he supervised IIC's private equity portfolio. Mr. Ramos also coordinated the Latin American division of a Washington DC-based consulting firm on IT and Telecommunications projects in the United States and in Latin America.

Mr. Ramos has a MBA from John Hopkins University, Carey Business School, a Master of Arts in International Trade and Investment Policy from the George Washington University, and a B.A. in International Relations from University of Brasilia, Brazil. Mr. Ramos is fluent in English, Portuguese and Spanish.

Dr. Worajit Setthapun, Asian Development Institute

Dr. Worajit Setthapun currently holds a Director position at the Asian Development Institute for Community Economy and Technology (adiCET), Chiang Mai Rajabhat University. Her role is to manage the institute's 3 missions which are Academic Programs, R&D and Training in Renewable Energy and Green Technology, and Green Business Incubation. She also develops and manages the Chiang Mai World Green City (CWGC) which is the model city for renewable energy application and sustainable development. The CWGC aims to be the center for appropriate technology research, testing and deployment. In addition, she guides research direction for adiCET's graduate students and research staff. Dr. Setthapun research interests focused on Renewable Energy, DC Microgrid, Green Technology/Product, and Community Technology Transfer & Application.

Dr. Setthapun received her Bachelor Degree in Chemical Engineering from King Mongkut's University of Technology Thonburi, Thailand. Then, she was awarded the Fulbright Open Competition Scholarship for her Master Degree and completed her PhD in Chemical Engineering at the University of Michigan, Ann Arbor. In addition, she was the Postdoctoral Appointee at Argonne National Laboratory in the Chemical Sciences and Engineering Department.

Rohit Shukla, Chief Executive Officer, Larta Institute

Rohit, CEO of Larta, is an established thought leader and respected practitioner on innovation, commercialization, and enterprise and technology-led economic development. He has advised

governments, multilateral organizations, communities and enterprises throughout the world, creating initiatives that expand entrepreneurship, promote commercialization and enhance the competitiveness of regions across many parts of the globe. In founding and growing Larta Institute to institutionalize the work he has pioneered, he has developed a reputation and expertise in the commercialization of innovations emerging from government-funded initiatives, research institutes, universities and larger companies in the private sector.

Rohit's role in authoring and creating the commercialization assistance program initiatives at major U.S. federal agencies has led to a well-documented increase in sustainable, market-based innovations in the U.S. and has led to his being sought after as an adviser and confidant of governments and private institutions. These include most recently, Malaysia, in addition to Israel, the Middle East, New Zealand, Australia and other countries scattered in Europe and Asia.

Early in his 20 year career devoted to envisioning and creating innovation policy and initiatives, Rohit was tapped by the State of California to author and develop its innovation and entrepreneurship initiative, the California Technology Investment Partnership (CalTIP), and helped to write the legislation that brought the program into being in California, years before the technology-led boom in Silicon Valley. Since then, he has expanded the scope and scale of his work, writing on venture capital, sector-led innovation in wireless, telecom and the life sciences and on entrepreneurship, research-based enterprises, commercialization and government policy. As an advisor to the OECD, he recently led a multi-country study project on intellectual property as it affects the growth of small and medium-sized enterprises, focused on harmonization of IP policies and practices. As an advisor to the Government of Malaysia, he helped to influence policy on incentives and initiatives focused on agriculture- and biotech-led entrepreneurship. In technology transfer, he was one of the first thought leaders to promote policies oriented toward the development of “bundled” IP between research institutions and universities. The latter led to Larta Institute’s collaboration with the Kauffman Foundation and the U.S. National Science Foundation (NSF) on approaches to problem-resolution for industry needs through a wide-ranging examination of university-derived IP from multiple institutions. He has also taught entrepreneurship to managers and startup companies, and developed and taught the first course on Startup Management for Pepperdine University’s MBA program at the Graziadio School of Business and Management in Malibu, California.

Rohit's grasp and command of key issues and concerns in several industries has led to a unique and varied career. He directed a prominent group of CEOs of Fortune 500 companies in the defense electronics and aerospace industries in the U.S., counting among his associates the great Peter Drucker, Bill Perry (who later became the U.S. Secretary of Defense), Malcolm Currie, CEO of Hughes and other luminaries. He created and managed the first “defense adjustment” program derived from policy advice he provided to the Clinton Administration in the early 1990s. He was an entrepreneur himself, founding two companies in the information technology and information processing industries prior to the Internet boom.

Rohit has a Master’s in Social and Political Sciences from Cambridge University, England, and a Master’s in Communications Arts and Sciences from Loyola Marymount University, Los Angeles. He speaks to audiences around the world on subjects ranging from commercialization and innovation to globalization and entrepreneurship.

John Spears, Sustainable Design Group

John Spears is the president of Sustainable Design Group www.sustainabledesign.com , architects and builders of custom solar homes and renovations. Mr Spears has been a pioneer in sustainable building technology and community design worldwide for over 40 years. He specializes in zero energy and self sufficient buildings and communities.

Mr Spears is also the founder and president of the nonprofit International Center for Sustainable Development www.solarcities.org and has designed sustainable communities around the world and consulted with cities in developing countries on sustainable infrastructure development. He was the sustainable development consultant to the 2008 Beijing Olympics. Locally, ICSD through its Baltimore Electric Vehicle Initiative is installing electric vehicle charging stations throughout Maryland and promoting the use of electric vehicles.

Mr. Spears was the founder of the Maryland Clean Energy Center which promotes economic development and job creation in the clean energy sector and he worked with Montgomery County Maryland in the development of their Green Economic Development Initiative.

Mr Spears is currently setting up a factory in Maryland to manufacture solar powered modular sustainable infrastructure systems including a solar power plant, bulk milk chiller, water purification system, internet café and earth home building factory for use in developing countries that don't have access to electricity. www.SustainableSystemsint.com

Mr Spears lives and works out of the 100% solar powered home and adjoining studio he and his wife built in Gaithersburg, MD.

Robert Stoner

Robert Stoner is Associate Director of the MIT Energy Initiative, co-Director of the Tata Center for Technology and Design, and a contributor to the ongoing MIT Future of Solar Energy Study. His current research interests include energy technology and policy for developing countries, and design for resource constrained settings.

Stoner has worked extensively in academia and industry throughout his career, having built and managed successful technology businesses in the semiconductor, IT and optics industries. From 2007 through 2009 he lived and worked in Africa and India while serving in a variety of senior roles within the Clinton Foundation.

Dr. Stoner earned his Bachelor's degree in engineering physics from Queen's University, and his Ph.D. from Brown University in condensed matter physics.

Tomicah Tilleman, Senior Advisor for Civil Society and Emerging Democracies, State Department

Secretary Clinton appointed Tomicah Tillemann as the State Department's Senior Advisor for Civil Society and Emerging Democracies in October 2010. He continues his service under Secretary Kerry.

Mr. Tillemann and his team operate like venture capitalists, identifying ideas that can strengthen new democracies and civil society, and then bring together the talent, technology and resources

needed to translate promising concepts into successful diplomacy. He and his team have developed over 20 major initiatives on behalf of the President and Secretary of State.

Mr. Tillemann came to the State Department as a speechwriter to Secretary Clinton in March 2009 and collaborated with her on over 200 speeches. Earlier, he worked for the Senate Foreign Relations Committee, where he was the principal policy advisor on Europe and Eurasia to Committee Chairmen, Senators Joe Biden and John Kerry. He also facilitated the work of the Senate's Subcommittee on European Affairs, then chaired by Senator Barack Obama. Mr. Tillemann's other professional experience includes work with the White House Office of Media Affairs and five U.S. Senate and Congressional campaigns. He was a reporter with Reuters New Media and hosted a commercial radio program in Denver, Colorado.

Mr. Tillemann is also a co-holder of four patents on advanced clean technologies and a co-founder of IRIS Engines. He has helped to found and lead numerous civil society organizations, including the Lantos Foundation for Human Rights and Justice and the Student Campaign for Child Survival.

Mr. Tillemann received his B.A. *magna cum laude* from Yale University. He holds a Ph.D. with distinction from the School for Advanced International Studies at Johns Hopkins University (SAIS) where he also served as a graduate level instructor in American foreign policy. He has lectured at Yale and Princeton and testified repeatedly before Congress. Secretary Clinton personally nominated him for the State Department's Distinguished Honor Award in recognition of his innovative efforts to strengthen democracy and civil society worldwide.

Robert W. van Zwieten, President & Chief Executive Officer, EMPEA

Robert provides overall strategic leadership of EMPEA and oversees the continuous expansion of value to existing and prospective members and the organization's work to develop the asset class globally.

Prior to EMPEA, Robert was the Asian Development Bank's Director of Private Sector Capital Markets, based in Manila, Philippines, responsible for origination and structuring of US\$2.5 billion in transactions and investments across 40 Asian emerging and frontier markets. Robert oversaw ADB's US\$1 billion in private equity investments deployed in 47 funds. He pioneered three new private equity funds and two new non-bank financial institutions, raising close to US\$1 billion in third-party capital commitments.

Previously, Robert served as Managing Director and COO for an Asia-focused hedge fund venture, and prior to that as Senior Executive Vice President and CFO for the Singapore Exchange. His experience further includes roles as Senior Vice President, CAO and other leadership positions with Lehman Brothers in New York; Managing Director and Global Treasurer with GE Energy in Atlanta; and Managing Director and Treasurer for GE Capital Asia-Pacific in Hong Kong during the Asian Financial Crisis. Earlier in his career he worked with ABN AMRO Bank in Amsterdam, Chicago and Singapore, and with Royal VOPAK in Rotterdam.

Robert currently serves on the Board of Trustees of International House of New York, and is a Member of the Board's Investment Committee. He is also a Director on the Board of Music For Life International, Inc. Mr. van Zwieten earned an MBA from the University of Chicago Booth School of

Business, holds JD and MA degrees from Leiden University in the Netherlands, and an LL.M. degree from Columbia University School of Law in New York. He is a citizen of both the Netherlands and the United States.

Alfred Watkins

Alfred Watkins is currently Chairman of the Global Solutions Summit, Senior Advisor to the Global Technology Deployment Initiative and Senior Director of the P80 Group Foundation.

Prior to assuming these positions, he worked for more than 23 years in various positions at the World Bank and served for more than six years as the World Bank's Science and Technology Program Coordinator and head of the World Bank's Science, Technology and Innovation Global Expert Team. In those capacities he was responsible for designing, developing and helping to implement the World Bank's global STI capacity building programs and for helping to maintain the World Bank's STI capacity building dialogue with G-8 governments, bilateral donors, foundations, NGOs, and various multilateral and UN agencies. He has extensive field experience in Africa, Asia, Eastern Europe and the Former Soviet Union. Mr. Watkins helped to design and organize World Bank STI capacity building programs in Africa, the Middle East, Eastern Europe, and Central Asia. Mr. Watkins also led the World Bank team that designed and implemented an innovative World Bank non-commercial risk guarantee package for the Sea Launch Commercial Space Launch project in Russia and Ukraine.

Prior to joining the World Bank, Mr. Watkins was an Assistant Professor at the University of Texas at Austin and served as an economic advisor to several Members of Congress.

Charles W. Wessner, *Director, Technology, Innovation and Entrepreneurship*

Dr. Charles Wessner is a National Academy Scholar and Director of the Program on Technology, Innovation, and Entrepreneurship. He is recognized nationally and internationally for his expertise on innovation policy, including public-private partnerships, entrepreneurship, early-stage financing for new firms, and the special needs and benefits of high-technology industry. He testifies to the U.S. Congress and major national commissions, advises agencies of the U.S. government and international organizations, and lectures at major universities in the U. S. and abroad. Reflecting the strong global interest in innovation, he is frequently asked to address issues of shared policy interest with foreign governments, universities, and research institutes, often briefing government ministers and senior officials. He has a strong commitment to international cooperation, reflected in his work with a wide variety of countries around the world.

Dr. Wessner's work addresses the linkages between science-based economic growth, entrepreneurship, new technology development, university-industry clusters, regional development, small firm finance and public-private partnerships.

Currently, he directs a series of studies centered on government measures to encourage entrepreneurship and support the development of new technologies and the cooperation between industry, universities, laboratories, and government to capitalize on a nation's investment in research. Foremost among these is a congressionally mandated study of the Small Business Innovation Research (SBIR) Program, reviewing the operation and achievements of this \$2.3 billion award program for small companies and start-ups. He is also directing a major study on best practice in global innovation programs, entitled Comparative Innovation Policy: Best Practice for

the 21st Century. A complementary analysis entitled *Competing in the 21st Century: Best Practice in State & Regional Innovation Initiatives* is now underway. The overarching goal of his work is to develop a better understanding of how we can bring new technologies forward to address global challenges in health, climate, energy, water, infrastructure, and security.