GHTC 2016 – Plenary Speaker
Thursday Evening

Dr. Bartosz Wojszczyk
President & CEO, Decision Point Global, USA
Adjunct Professor, University of North Carolina, USA

Title: **Disrupt or Be Disrupted**

Abstract:
A clean, secure and cost effective supply of energy is essential for the future of economic growth and enablement of a sustainable society. To effectively address the future, we need to face the on-going paradigm shift in the areas of new customer services to be provided by non-traditional competition; electricity price affordability based on socio-economic diversity; distributed and flexible demand and supply requirements reducing dependency on traditional utility business models; environmental pressure, and many others. The complexity of these changes require a new way of thinking about business, technology and customer innovation across the entire value chain; that means, "step-change/disruptive" and integrated approaches unlocking X-factor performance at a fraction of the cost. During this seminar, Dr. Bartosz Wojszczyk will address practical aspects of: global industry disruptive and innovation trends forcing a "new normal" for energy stakeholders, non-traditional competition and start-up ecosystems that will potentially change (and/or are currently changing) the energy landscape, how disruptive trends are changing existing (regulated) utility business models, customer engagement strategies for utilities to stay relevant in the "new normal", and global examples of disruptive/innovative businesses and technologies.

Bio:
Bartosz is an accomplished c-level executive, investor, entrepreneur, visionary and innovation spokesperson with over 22 years of global experience working for utilities, academia, start-ups and Fortune 500 companies (GE, Accenture, First Pacific, Quanta Services, Legrand, etc.) with revenue totaling $2 Billion annually.

Bartosz is a founder of Decision Point Global, which invests in and delivers on big ideas through unique and step-change technology innovation and rapid commercialization at the highest possible return and the lowest possible risk and cost. Bartosz has co-authored over 30 papers and 3 books. He is an active member of the IEEE Power & Energy Society, IEEE-USA Energy Policy Committee, IEEE Artificial Intelligence Subcommittee. He serves as Technical Program Chair of IEEE Energy Development & Power Generation Committee and Chair of IEEE International Practices Subcommittee. He is past-secretary of the IEEE Distributed Generation & Energy Storage Subcommittee.

GHTC 2016 – Plenary Speaker
Friday Morning

Walt Hubbard, Director
King County Office of Emergency Management

Tile: **Technology and Resilience in the 21st Century**

Abstract:
As evidence mounts on the effects of climate change, the time for closing the communication gap between professional disciplines is more urgent than ever.

Bio:
Walt Hubbard grew up in the Seattle area and has a record of public service that spans both private and government sectors. Before becoming Director of the King County Office of Emergency Management, Hubbard was Emergency Preparedness Manager for the King County Department of Transportation, where he worked to improve the department's all-hazards response, with special focus on Green River flooding, winter storms, and long-term recovery.

As Special Assistant for public safety under Seattle Mayor Paul Schell, Hubbard was engaged in response to several emergency events – including the 2001 Nisqually Earthquake and the 1999 WTO protests – forming strong relationships with community organizers, police, fire, and first responders across the region.

Hubbard also served as Director of the Odessa Brown Children's Clinic, where he honed his commitment to equity and social justice as an essential part of health care delivery to a diverse population.

GHTC 2016 – Plenary Speaker
Friday Lunch

Kartik Kulkarni, Chair,
IEEE SIGHT Steering Committee

Title: **Building a Locally-focused Community of Engineers for Global Development**

Abstract:
IEEE is a global organization of around half-million members who have two key strengths: they are technically trained and have local expertise. At SIGHT (Special Interest Group on Humanitarian Technology), we are leveraging these strengths to build a community of engineers to identify local problems and to help solve them with their peers and by partnering with the community leveraging technology solutions. We saw great interest among our IEEE members, who connected together locally, to form 90+ SIGHT groups in 35 countries and 5 Technical Societies. Several activities and projects are undertaken each year and as a result, ~20,000 are introduced to the benefits of technology, sometimes as basic as electricity, transportation, communication, and education. In this plenary, we share lessons learned from our community interventions and how this community is becoming relevant and a partner to global initiatives and programs that aim to accomplish specific goals/mission such as People-Centered-Internet, IEEE Smart Village, and others.

Bio:
Kartik Kulkarni is a Senior Member of Technical Staff at Oracle Corporation's Data and In-Memory Technology Group. He is a primary contributor to the Oracle In-memory Database which enables real-time data analytics on mission-critical information systems in fields including ecommerce, financial services, insurance, and healthcare. He develops memory-hardware aware algorithms (patents pending) to enable scale-out of transactions processing, and high availability of data. Kartik did his Masters from Carnegie Mellon University (CMU) in Electrical and Computer Engineering, and he is an alumnus of CMU's Parallel Data Lab.

Kartik chairs the IEEE Special Interest Groups on Humanitarian Technology (SIGHT) Steering Committee. SIGHT is a growing community of 90+ groups of engineers in 34 countries and 5 Technical Societies, working on solving community problems using technology solutions. In 2015, this community engaged 1700+ engineers benefiting 20,000+ people through projects and activities in the areas such as education, energy, health, and assistive technologies. Kartik was recognized as a 2015 USA's New Face of Engineering by DiscoverE Foundation.

GHTC 2016 – Plenary Speaker
Friday Lunch

Paul M Cunningham
Projects Chair, IEEE Humanitarian Activities Committee

Title: **IEEE HAC and Global Development**

Abstract:
IEEE is very well positioned to have real impact around the world, based on the geographic diversity, breadth, depth and complementarity of technical, scientific and engineering expertise, cross-sectoral representation and strong volunteer ethos of its membership. This presentation will discuss the work of the IEEE Humanitarian Activities Committee and opportunities for IEEE volunteers in Global Development.

Bio:
Paul is President & CEO of IIMC International Information Management Corporation, a technology and strategic consulting, policy and research organization headquartered in Ireland. Paul has a multidisciplinary background with expertise in Collaborative Open Innovation, Entrepreneurship, ICT4D, eHealth, eAgriculture, eGovernment, eInclusion and eSkills. Paul has 20 years' experience of Innovation, Science and Technology related implementation, policy formulation and research and innovation in the context of Global Development. Paul has been supporting African Governments in developing research and innovation ecosystems and integrating appropriate use of ICT since 2002 through IST-Africa, Africa4All Parliamentary Initiative and mHealth4Afrika. Paul works as an expert with the European Commission, World Bank and nationally funded research programs (NRF South Africa, Research Council of Norway, VINNOVA, Sweden). A graduate of Trinity College Dublin and Smurfit Graduate Business School, UCD, Paul is completing a PhLic and PhD at Department of Computer and Systems Sciences (DSV), Stockholm University.

A Senior Member of IEEE (Society on Social Implications of Technology (SSIT), Computer Society and Communications Society), Paul serves on the IEEE SSIT Board of Governors (President 2017 - 2018), the IEEE Humanitarian Activities Committee (Projects Chair), and founded the IEEE SSIT SIGHT (Special Interest Group on Humanitarian Technologies). Paul is a Visiting Senior Fellow at Wrexham Glyndwr University (Social Implications of Technology and ESGDC - Education for Sustainable Development and Global Citizenship), an IEEE SSIT Distinguished Lecturer, and an Associate Editor, IEEE Technology and Society Magazine.

GHTC 2016 – Plenary Speaker
Friday Evening

Alexis Bonnell
U.S. Global Development Lab, USAID

Title: **Beyond the "Shine": The Future Hero of Humanitarian Response**

Abstract:
Innovation, new technology, is changing how we respond to humanitarian crisis and disaster. But is is changing it enough? What are the barriers to applying innovation, what are the incentives and what are the future humanitarian heroes thinking and doing differently today. How is the industry working together to share collective business intelligence and resources to optimize for the response of today and tomorrow.

Bio:
Alexis Bonnell is the Division Chief of Applied Innovation and Acceleration in the U.S. Global Development Lab of USAID. Alexis has developed and delivered over a billion dollar of humanitarian and development programming in over 25 conflict, post-conflict, and emergency countries, in almost every sector from education to stabilization, for more than 30 International Bi-lateral donors, 10 UN agencies, the military, and private sector. She has held positions with every side of development including: implementers, donors, policy makers, and beneficiaries and is proud of her “360 degrees” of development experience. Her more than 20 years of experience in management and communications has provided her incredible opportunities to work on/with: Wall Street, “Dot.coms”, Middle East Peace Plan, Afghan and Iraq Elections, Global emergency response coordination and major logistics operations. Her current focus is how to leverage science, technology, innovation, and partnership for great development outcomes. Alexis is the founding visionary behind the Global Innovation Exchange.

GHTC 2016 – Plenary Speaker
Saturday Lunch

Maurizio Vecchione, Senior Vice President
Global Good and Research

Title: **The Power of Developing World Technology: Reverse Innovation**

Abstract:
For many years the world has approached the developing world as the place where innovation does not happen. The developing world has been a place that receives innovation often as a result of aid or charitable efforts. But no one has a monopoly on innovation. Many times innovation springs from the need and confronting a problem. Increasingly innovation is sprouting to resolve developing world problems that also solve global problems. This has the potential to dramatically address the needs of the base of the pyramid, the potential to move billions out of extreme poverty and to unlock the potential of growth to the global south. This reverse innovation is creating an immense opportunity to innovate at a global scale, with both technology and economic impacts. But what are the approaches, the challenges and the opportunities to global innovation and what are the strategies to tap into this new reverse innovation?

Bio:
Maurizio Vecchione is the Sr. vice president for Global Good and Research at Intellectual Ventures in charge of the Global Good Fund, the world's largest investor in inventions for the benefit of the poorest three billion people on the planet, focusing on disruptive innovation in global health and global development for the benefit of humanity. Global Good operates its own multidisciplinary research laboratory with relationships with over 4,000 research institutions globally, and the Institute for Disease Modeling to facilitate discovery and translational science in support of its investments. With more than 30 years of experience in the technology and life sciences sector, Mr. Vecchione has helped build nine start-ups and launched more than 50 commercial products spanning life-sciences, health technologies, therapeutics and as well as telecommunications, information and material sciences. As an inventor himself, Mr. Vecchione is named on multiple U.S. patents and patent applications related to imaging, image processing, nano-bio-polymer and telecommunication technologies.

GHTC 2016 – Plenary Speaker
Saturday Evening

Dave Cook, President
Engineers Without Borders - USA

Title: **Building a Better World through Volunteering**

Abstract:
Volunteers have a passion to change the world. But, do they have the appropriate skills to ensure that projects are done thoughtfully, appropriately, and sustainably? Through his work with EWB-USA, Dave Cook has personally seen the needs of developing communities and those affected by natural disasters. He will share these experiences and the balance between volunteerism for the volunteer, technology with no capacity to sustain, and a project that is sustainable.

Bio:
Mr. Dave Cook, LG, CPG serves as Principal Environmental Practice Leader at Aspect Consulting LLC since September, 2016. Prior to this role, Mr. Cook was Principal and Team Leader for GeoEngineers, Inc. since 1991. Mr. Cook's technical practice involves site assessment and remediation for urban or waterfront properties that are ripe for redevelopment. Integrating his knowledge of geology and dedication to sustainability. He focuses on low-impact development, stormwater infiltration and brownfields (industrial or commercial sites that are underused because of environmental pollution) projects.