

# WEEF-GEDC 2018

WORLD ENGINEERING EDUCATION FORUM – GLOBAL ENGINEERING DEANS COUNCIL

## Preliminary Program – PEACE ENGINEERING

### Plenary Sessions

**Academia/Practicing Peace Engineering: What's Possible for the New Engineer?**

**Gaps in Engineering Education – Academic Outreach:** Engineering Education from a student's perspective

**International Collaborations for Peace Engineering – Case studies:** *Singapore, Jordan, Americas, Euro-Asia*

**The Future of Big Science:** Presentations from high-ranking authorities of the three principal US national laboratories in New Mexico on the Future of Big Science. Los Alamos National Laboratory (LANL), Sandia National Laboratories (SNL), Air Force Research Laboratory New Mexico (AFRL)

**Extreme Engineering:** Presentations from LANL, SNL and AFRL on designing and maintaining critical infrastructures (electrical grids, water systems, telecommunications, health networks, early detection of potential epidemics, forests, other)

**Global Challenges:** Presentations from LANL, SNL, AFRL and industry on solutions to global challenges that affect peace, wellbeing and sustainability

**Capital and Markets, Token Communities**

**Wealth Creation, Impact Investing and Sustainability**

**Ethics by Design**

**Industry Forum:** Airbus, Siemens, Quanser, National Instruments, Mathworks...

**Multilaterals and Funding Organizations:** NSF, NAE, WB, UNESCO, OAS, CAF

**Disruptive Innovations in STEM Education**

**Future of Engineering Education – an Industry Perspective**

**Peace Engineering in the Field**

**Peace Engineering through Health**

**Academia, Industry, Governments, Multilateral, Funding Agencies Round Table - Future of Engineering Education**

**Town Hall: Peace Engineering: Ideas, Insights and Next Steps**

### Speakers

**Cleve Moler** Co-Founder & Chief Mathematician, Mathworks ♦ **Bernard Amadei** Co-Founder, Engineers Without Borders ♦ **Tony Quiñones** Cavendish Impact Capital ♦ **Cynthia Atman** Founding Director, Center for Engineering Learning & Teaching, University of Washington ♦ **Margarita Qhuis & Mark Nelson** Co-directors, Peace Innovation Lab, Stanford University ♦ **Alex Lightman** Token Communities ♦ **Avneet Hira** President, SPEED ♦ **Seeram Ramakrishna** National University of Singapore ♦ **Mohammed Ibbini**, VP, Jordan University of Science and Technology ♦ **Paul Gilbert** CEO, Quanser ♦ **Bhavesh Mistry** National Instruments ♦ **David Garza** Rector, Tecnológico de Monterrey ♦ **Marta Losada** President, Universidad Antonio Narino ♦ **Richard K. Miller** ♦ **Janusz Kozinski** Vice-Chancellor, New Model in Technology and Engineering (NMITe), UK ♦ **Christine Ortiz** Founder, Station1 ♦ **Per Michael Johansen** Rector, Aalborg University ♦ **Juan Figueroa** Tambourine Innovation Ventures ♦ **Sanjeev Arora** Project ECHO ♦ **Shiyi Chen** President, Southern University of Science & Technology of China ♦ **Tom Lee** Quanser ♦ **Elsie Maio** Humanity Inc. ♦ **Adrian Erlinger** Program Manager, Innovation and Capacity Building, American Councils for International Education (ACIE) ♦ **Kamil Agi** President/CEO, SensorComm Technologies, Inc. ♦ more to come...

### Workshops

ABET ♦ Peace Engineering ♦ Blockchain ♦ Engineers Without Borders ♦ Design Thinking ♦ more to come...

Transforming Engineers for a sustainable global future

*Imagine. Design. Create.*

*Building a better world through peace engineering*