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NDU release number: 12-019

FOR IMMEDIATE RELEASE  
September 28, 2012

## TIDES 6<sup>TH</sup> ANNUAL FALL FIELD DEMONSTRATION

(Washington, DC) The TIDES (Transformative Innovation for Development and Emergency Support) research project at the National Defense University invites the public to the 6th Annual TIDES Fall Field Demo at Fort Lesley J. McNair from Tuesday, October 2<sup>nd</sup> to Friday, October 5<sup>th</sup>. This year's annual TIDES demo (2-5 Oct at Fort McNair and 15-17 Oct at Pentagon Center Court) will involve significant changes from past events that may be of interest. There will be a lunch-time speaker series with TIDES related topics. In addition, there will be themed 20 minute Exhibitor Showcases throughout the week and working groups open to the public that will address a variety of issues pertinent to finding sustainable solutions for development and emergency support.

More than in previous demos we will focus on integrating concepts and saving costs to meet the realities of constrained budgets and strategic rebalancing. One example is 'Quick Wins at Low Cost'--which looks at ways to field capabilities in months for thousands of dollars, vice decades for billions. The approach (1) leverages ongoing activities in crowd-sourcing and open source imagery, (2) improves our ability to handle the volume and velocity of information generated by social media and the 24x7 news cycle, (3) promotes public-private cooperation (especially with commercial logistics organizations), and (4) takes advantage of bottom-up approaches to promote interoperability. The demo will feature four sections:

- Building Integrated Partnership Capacity in austere environments. The focus will be on cross-cutting solutions that can be sustained by local populations and on information flows designed to reduce the likelihood of violent outbreaks in stressed situations.
- Foreign disaster preparedness and humanitarian assistance. A new initiative will be to develop integrated concepts for "survivable and sustainable" approaches that can be used with partner nations' governments and private sectors. It also will feature results from the quarterly field experiments at Camp Roberts, which recently have focused on improving the quality and reducing the time to provide open source imagery to front line units.
- Post-war stabilization and reconstruction. Many individuals and organizations with recent Afghan experience will be onsite to discuss approaches and share ideas in areas like support to Village Stability Operations (VSO), sustainable socio-economic development, green-white info sharing and "sensemaking" from large amounts of data.
- Disaster response in the US and Defense Support of Civil Authorities (DSCA). This will involve DHS/FEMA/NORTHCOM links, ties to commercial supply chains, empowering citizens in austere environments, enhancing system resilience, etc.

**You can register for the event online at: <http://tidesdemo12.eventbrite.com/>**

## SCHEDULE OF EVENTS

TUESDAY, 2 OCTOBER 2012

9am: Demonstration Begins

**Morning Infrastructure Exhibitor Showcase: WATER** (all at exhibitor stations)

9:30-9:50am: Robert Atchley: Aspen Water

10-10:20am Randy Kerlee: Hydration Technology Innovations

10:30-10:50am: Tony Uhl: Enterprise Works of Relief International

11-11:20am Marus Jaunakais: Industrial Test Systems, Inc. (Water Quality Testing)

11:30am-11:50am Bill Utz: International Water Company

Lunchtime Speaker Series

12-1pm: **Major Brandon Newell from the Expeditionary Energy Office: "*Marine Corps Expeditionary Energy: Mobile and Modular for Austere Locales*".**

Major Brandon Newell is the Technology Lead the Marine Corps Expeditionary Energy Office. He is responsible for researching current and future technologies which may reduce Marine Corps fuel demand on the battlefield. He recently deployed to Helmand Province, Afghanistan to serve as the Expeditionary Energy Liaison Officer to Regional Command Southwest. He holds a M.S. in Electrical Engineering (EE) from Naval Postgraduate School where he focused his research on the impact of utilizing the HOMER Micropower Optimization tool for modeling Marine Corps expeditionary energy. He also holds a B.S. in EE from Louisiana State University. In the summer of 2009, he was the first active duty service member to hold an internship position at the National Renewable Energy Laboratory. In September 2009, the Commandant of the Marine Corps chose him as a member of the first and only Marine Energy Assessment Team. The six-member team was deployed to Afghanistan to evaluate shortfalls in expeditionary energy. His Military Occupation Specialty in the Marine Corps is Communications Officer. He has served as a staff officer for an artillery and a signals intelligence battalion, deploying to Iraq and Afghanistan multiple times.

**Afternoon Infrastructure Exhibitor Showcase: INTEGRATED COOKING** (all at exhibitor stations)

1-2pm Integrated Cooking Exhibitors will provide freshly cooked food for all

1:30-1:50pm Dave Chalker: Sun BD Corporation

2-2:20pm Patricia McArdle: Solar Cookers International

3-3:30pm Open Working Group: Integrated Cooking Issues

2:30-3:30pm **Facilitated Working Group (John Crowley): Camp Roberts: Why and How to Get Involved**

3:30-4:30pm **Facilitated Working Group: (Willow Brugh & Jen Gold) ICT, Open Source & Unclassified Info Sharing**

5pm: Demonstration closes for the day

WEDNESDAY, 3 OCTOBER 2012

9am: Demonstration Begins

Morning Infrastructure Exhibitor Showcase Theme: Power (all at exhibitor stations)

9:30-9:50am: Jayson Southworth: Solar Stik  
10-10:20am: John Kohut: Planetary Power, Inc.  
10:30-10:50am: Albert Nunez: Seamless Solar Solutions  
11-11:20am Michelle Lacourciere: Community Based Energy Solutions by Sirona Cares Foundation  
11:30-11:50am: Chad Vogel: 12 South LLC (Hybrid Power Systems)

#### Lunchtime Speaker Series

12-1pm: **Scott Sklar, President of The Stella Group, Ltd.** Scott Sklar founded The Stella Group, Ltd. in 1995. The Stella Group, Ltd. is a strategic technology optimization and policy firm for clean distributed energy users and companies which include advanced batteries and controls, energy efficiency, environmental mitigation, fuel cells, geoexchange, heat engines, minigeneration (natural gas), microhydropower, modular biomass, photovoltaics, small wind, and solar thermal (including daylighting, water heating, industrial preheat, building air-conditioning, and electric power generation). The Stella Group, Ltd. blends distributed energy technologies, aggregates financing (including leasing), with a focus on system standardization. Scott Sklar, has coauthored two books: A Consumer Guide to Solar Energy and The Forbidden Fuel: Power Alcohol in the Twentieth Century which was just re-released in its updated version in early 2010 by U of NE press.

Scott Sklar lives in a solar home with direct exchange ground-coupled (geothermal) heat pump in Arlington, Virginia and the separate office building of The Stella Group, Ltd. with solar photovoltaic roofing shingles, advanced battery bank, a 0.5 kW wind turbine, and a 2 kW PEM fuel cell for backup and peak power.

Scott Sklar is Chair of the Steering Committee of the Sustainable Energy Coalition and serves on the Boards of Directors of the Business Council for Sustainable Energy, and the Renewable Energy Policy Project, and The Solar Foundation. From April 2007 to March 2010, he was appointed onto National Advisory Council for Environmental Policy & Technology (NACEPT) of US EPA. From November 2010 to July 2012, Secretary Locke approved Sklar's term appointment to the Department of Commerce Renewable Energy and Energy Efficiency Advisory Committee (RE&EEAC). Scott served for 9 years as an energy and military aide to Senator Jacob K Javits (NY) and was cofounder of the Congressional Solar Coalition - the group that drove the early 1970's legislation for renewables. Sklar is an Adjunct Professor at The George Washington University teaching two unique multi-disciplinary energy courses and also an Adjunct Professor at The American University co-teaching an international energy security course, and an Affiliated Professor at the international sustainable university 'CATIE' in Costa Rica.

#### **Afternoon Infrastructure Exhibitor Showcase Theme: INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) AND DISTRIBUTED COLLABORATION** (all at exhibitor stations)

1-1:20pm: Dean Hudson: GATR Technologies  
1:30-1:50pm: Amber Ledgerwood: Inmarsat Government (Scalability of ICT communications)  
2-2:20pm: Victoria Proffer: WECAT (Emergency Communications)  
2:30-2:50pm: Joel Allen: Delta Bridge, Inc.  
3-3:30pm: Joel Coulter: Mobile Sciences Consortium, LLC

3:30-4:30pm: **Facilitated Working Group (Jayson Southworth): Compatibilities and**

## Logistics

5pm: Demonstration closes for the day

THURSDAY, 4 OCTOBER 2012

9am: Demonstration Begins

**Morning Infrastructure Exhibitor Showcase Theme: Shelter** (all at exhibitor stations)

10-10:20am: Eric Lipson: NewHouse R & D- Shelter needs

10:30-10:50am: Wayne Chiles: Shelterbox

11-11:20am: Frederick Kringold: Virginia Tech Advanced Research Institute

11:30-11:50am: Chip Calderhead: Energy Technologies, Inc. (Power and Shelter)

Lunchtime Speaker Series

**12-1pm: Carmen Mauk, Executive Director, Burners Without Borders** “*Power With vs Power Over: How designing strategies in collaboration with affected populations accelerates capacity building in the system.*”

Carmen Mauk is co-founder and Executive Director of Burners Without Borders, a grassroots organization that creates participatory models for international disaster relief and supports innovative strategies that build resilience in communities around the globe. Carmen has nearly 20 years experience designing programs at the grassroots level that bring about community driven change. While working in France with the international human rights organization, ATD Quart Monde, she witnessed first hand how everyday people can come together to overcome societal limitations and systemic impasses to build stronger communities. Since that time, Carmen has been employing participatory methodologies that harness the energies and gifts of the community in order to foster collaborative solutions that make a lasting impact.

Carmen holds a Masters degree in Transformative Leadership from the California Institute for Integral Studies. She currently serves on the boards of Pisco Sin Fronteras, Jakmel Ekspresyon, and The Wild Nature Institute.

**Afternoon Infrastructure Exhibitor Showcase Theme: Lighting and Soil Based Solutions**  
(all at exhibitor stations)

1:30-1:50pm: Dennis K. Stone: L&Q International, Inc. (Sustainable, Soil-Based Infrastructure Solutions)

2-2:20pm: Chad Vogel: Nokero (Portable Solar Charged Lighting Systems)

**3:30-4:30: Facilitated Working Group (Michelle Lacourciere): “From Stressed to Sustainable”**

5pm: Demonstration closes for the day

FRIDAY, 5 OCTOBER 2012

9am: Demonstration Begins

9:30-10am: Open Working Group: Water Issues

10-10:30am: Open Working Group: Shelter Issues

10:30am-11am: Open Working Group: Emergency Communications

11-11:30am: Open Working Group: Integrated Cooking Issues

12pm: Demonstration Ends

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