

## INSS-ATL PANEL DESCRIPTIONS

June 6-7, 2017

### Synchronous Sessions

June 6, 2:00-3:15 PM

*Atlanta: TBD*

*Baltimore: Technology and Urban Sustainability (webcast)*

*Charlotte: Educating for Engaged Sustainability (webcast)*

This panel will bring together UNCC and Charlotte area partners to talk about what they might expect from an engaged sustainability course or concentration at UNCC.

### Synchronous Sessions

June 6, 3:45-5:00 PM

*Atlanta: Can Smart, Connected Communities also Advance Equity? Three Perspectives from Research, Planning, and Design*

Description:

As we plan, design, engineer, and build smart and connected communities, equity is often overlooked—displaced by our focus on technology. But if we do not address equity from the beginning, we run the risk of exacerbating existing conditions of injustice. This panel will explore diverse approaches to addressing equity in research, planning, and design for smart and connected communities, to spark conversation on strategies and tactics appropriate for both public sector and academic projects.

Panelists:

- Carl DiSalvo, Associate Professor, School of Literature, Media, and Communication/SLS Smart Cities, Connected Communities Fellow (Spring 2017), Georgia Tech
- Cicely Garrett, Deputy Chief Resilience Officer, City of Atlanta Mayor's Office of Resilience
- Jesse Woo, Research Associate in Privacy and Cybersecurity/SLS Smart Cities, Connected Communities Fellow (Spring 2017), Georgia Tech

*Baltimore: Investing in Smart Cities to Improve the Lives of Low Income Residents – A Panel Discussion (webcast)*

### Cross-Panel Discussion: Technology for Smart, Connected Communities: The Bridge and The Wall

June 7, 11:00 AM – 12:30 PM

**Description:**

The organization of Federal support for research and development in the United States fosters enthusiasm for technological innovation. Since these efforts require taxpayer support, the language promoting such innovation links it to positive social outcomes such as jobs, national defense, community benefits such as public and environmental health and safety, and better education. But public and private investments may not have positive or equitable results, and the potential for good results may depend as much or more on the societal contexts in which the innovations develop and are used than on the technical components that are part of the innovations. Pathways towards the vision of smart and connected communities usually include a hope that enhanced technologies (for data collection, pattern recognition, communication, decision making, transportation and other tasks) will improve upon humans' ability to perform these

functions by overcoming persistent limitations. However, for these technologies, including artificial intelligence, to create pathways towards positive social outcomes, they must be imbedded in social processes and structures that promote those benefits. How do smart technologies extend human abilities, and what does this mean for social interactions, participation, adaptation, or responsiveness? This panel examines how smart technologies play out in social contexts in various domains, both in terms of successes and failures. In order to better understand the promises and limitations of technology in building smart, connected communities, panelists will examine a variety of case studies. Some will highlight successes applying innovative technologies to improving community function. Others will reflect on failures. And still others will identify both positive and negative outcomes and implications.

#### **Panelists:**

- **Atlanta: Emma French, Sustainability Program Manager, Center for Urban Innovation, Georgia Tech.** Emma is a recent graduate (May 2017) of Georgia Tech's dual masters program in Public Policy (MSPP) and City and Regional Planning (MCRP). During Emma's three years at Georgia Tech she worked as a Graduate Research Assistant at the [Center for Urban Innovation](#) where she investigated sustainable urban food systems, open data policies, smart city technology deployment and resiliency planning, among other things. During the Spring of 2017 Emma was selected to participate in Serve-Learn-Sustain's Smart Cities and Connected Communities Fellowship and during this time was also a member of the [International Urban Design Studio](#) led by Dr. Perry Yang. Since graduating Emma now works full-time for CUI as the Sustainability Program Manager and is currently researching legacy data digitization and use in smart cities. Emma's long-term goal is to support the design and development of equitable, sustainable communities through participatory planning and critical policy analysis and evaluation.
- **Baltimore:** Rachelle Hollander directs the Center for Engineering, Ethics, and Society (CEES) at the National Academy of Engineering (NAE). CEES manages the Online Ethics Center (OEC), a widely used resource for engineering and research ethics education, located at [www.onlineethics.org](http://www.onlineethics.org). A project to enhance the OEC with new functionalities and expanded resources particularly for science and about issues beyond traditional professional ethics began in 2014 with NSF support. Several other CEES projects to enhance engineering ethics education are underway, also with NSF support. For many years Dr. Hollander directed the science and engineering ethics activities at NSF. In the course of her career, Dr. Hollander has been instrumental in the development of the fields of research ethics and professional responsibility, engineering ethics, and ethics and risk management. She has written articles on applied ethics in numerous fields, and on science policy and citizen participation. Dr. Hollander is a Fellow of the American Association for the Advancement of Science (AAAS) and recently completed a term as a member of the Governing Board of the Association for Practical and Professional Ethics (APPE). In 2006, Dr. Hollander received the Olmsted Award “for innovative contributions to the liberal arts within engineering education” from the American Society of Engineering Education’s Liberal Education Division. She received her doctorate in philosophy in 1979 from the University of Maryland, College Park; she was a Visiting Professor in the Science and Technology Studies Department at RPI in 1989-1990 and a Visiting Scholar in the Department of History of Science, Medicine, and Technology at Johns Hopkins University, 2001-2002.
- **Lima/Peru:** 1) David Chávez Ph.D., Signals and Communications Theory Area Professor and Chairman since 2004. Director of the Rural Telecommunications Research Group since 1999. Professor of the Department of Engineering at PUCP since 1992. Lectures and does research in network traffic modeling, wireless networks, information networks, network performance under stress, sensor networks. 2) Ronald Gutierrez Ph.D., Associate Professor in Civil Engineering at PUCP. Lectures and does research in software development, application of techniques of remote sensing and signal processing in the morphodynamics of rivers (especially those of the Amazon basin); as well as soil erosion, teaching techniques of engineering of water resources, among others.

- *James Walker*: Founder and CEO of Informative Technologies. Informative Technologies Inc. is a social enterprise that has researched and developed scalable, market-driven solutions to the digital divide and electronic waste since 2014. This is made possible by their ReviveOS™ software, which revives “obsolete” computers so they can run better than ever; thus breaking the cycle of planned obsolescence that’s built into competing operating systems today. To get these devices to those who are affected by the digital divide, we are building a community-based ecosystem that connects donor companies with recipient community organizations. Vision: A digitally inclusive society where technology is reused—not discarded—and where people are empowered to achieve success through affordable access to information. Mission: To be the leading innovator of solutions to the digital divide by reducing electronic waste, improving access to information, and strengthening existing community-based resources.

**Post-Conference Workshop: EPA’s Environmental Justice Screening Tool and Demo**  
**June 7, 1:30 PM – 3:30 PM**

**Description:**

EPA’s goal is to provide an environment where all people enjoy the same degree of protection from environmental and health hazards and equal access to the decision-making process to maintain a healthy environment in which to live, learn, and work. An important first step to ensuring environmental justice for all people in this country is to identify the areas where people are most vulnerable or likely to be exposed to different types of pollution. For this reason, EPA developed EJSCREEN to help aid in efforts to ensure programs, policies, and resources are appropriately inclusive and consider the needs of communities most burdened by pollution. This session, led by EPA Region 4 Representatives will provide an overview of EJSCREEN, including background information, data, and maps and reports, as well as a demonstration of the tool and how it is used at the EPA. Session Attendees are encouraged to bring a laptop to follow along.