2nd UVA International Standards Education Symposium

**To Standardize or Not, That is the Question:**

**Interdisciplinary and University-Community Dialogue on “Smart Cities”**

**April 18-19, 2019, University of Virginia**

Our cities infrastructure, culture and community are experiencing dramatic change through increasing digital urbanization and standardization of systems and services across local and global scales. Engineers, urban planners, policymakers, and companies are transforming cities into experimental zones equipped with cameras, sensors, internet of things devices, and cloud facilities. In standardizing technical and governing systems the intent is to optimize the city, boost the economy, and support citizen needs. However, is “smart cities” a desirable metaphor of envisioning the future? What does “smart cities” mean and how do we evaluate the costs and benefits of these technological investments? Are they improving quality of living or supporting innovative programs or just supporting efficiency of the status quo? How can cities, as communal space full of diverse cultures and social contingencies, benefit from standards and standardization? Join us at the Symposium to explore these and many other themes in our dialogues on future cities.

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# **April 18th, 2019 Thursday (Perspectives)**

**Session I: International standard education for emerging “smart” technologies**

**(Students’ Poster Exhibit: Standards and Community Wellbeing)**

**Time: 9:30am to 11:30pm**

**Location: Rodman Room**

**Moderator: Sean Ferguson**

*9:00a Coffee and small snacks*

9:30a Opening Remarks (Dean Craig Benson, School of Engineering, UVA)

9:45a US standard education: challenges and opportunities (Erik Puskar, Lead Sponsor, NIST)

10:00a Bridging society and technology together: Standard education in UVA (Sharon Ku, UVA)

10:30a Speed Dating: University-Community partnership through standard research/education

11:00a Reporting and Reflection

11:30a Action items proposed & Lunch

**Session II: Are “Cities” Standardizable? Rethinking Agency, Infrastructures and Community in “Smart Cities” Design and Implementation**

**Time: 1:00pm to 3:45pm**

**Location: O’Hill Forum**

**Moderator: Sharon Ku**

1:00 Introduction: Whose cities? What standards? Ontological inquiries of Smart Cities (Sharon Ku)

1:10 Cities as Cyber-Physical Systems (Jon Goodall, Link Lab)

1:30 Human factors and standard development in Smart cities (Dave Wollman, NIST CPS Program Director)

1:50 Lighting and Urban Kinetics in Smart Cities (Mona El Khafif & Andrew Mondschein, School of Architecture

2:10 Discussion and Q&A

*2:30 Break*

2:40 Thriving and City Assessment (Joshua Yates)

3:00 Cities as Global Assemblage: Multi-sited investigation of global smart cities (Sean Ferguson & Sharon Ku, Engineering & Society)

3:20 Discussion and Q&A

**April 19th, 2019 Friday (Praxis)**

**Session III: Teaching and Learning the “City”, its culture, and infrastructures**

**Time: 9:30am to 12:00pm**

**Location: Campbell Hall 160**

**Moderator: Peter Norton**

9:30a Bridging University and Communities in Cities Research & Education: Louis Nelson, Vice Provost/School of Architecture

9:45a Getting Out of the Comfort Zone: Engaging Students in Global Smart Cities Development

(Sharon Ku, Engineering & Society)

10:00a Uneasy partnerships and pedagogical experimentation in connecting society, technology, and

culture (Sean Ferguson, Engineering and Society)

10:15a Utopia and social imagination of cities (Sociology, Ekaterina Makarova)

10:30a Teaching Global Community Outreach (Dave Edmund, Global Studies)

10:45a Chinese City Design studio (Shiqiao Li, Architecture)

11:00a Round Table Discussion