

# Workshop Urban Physics

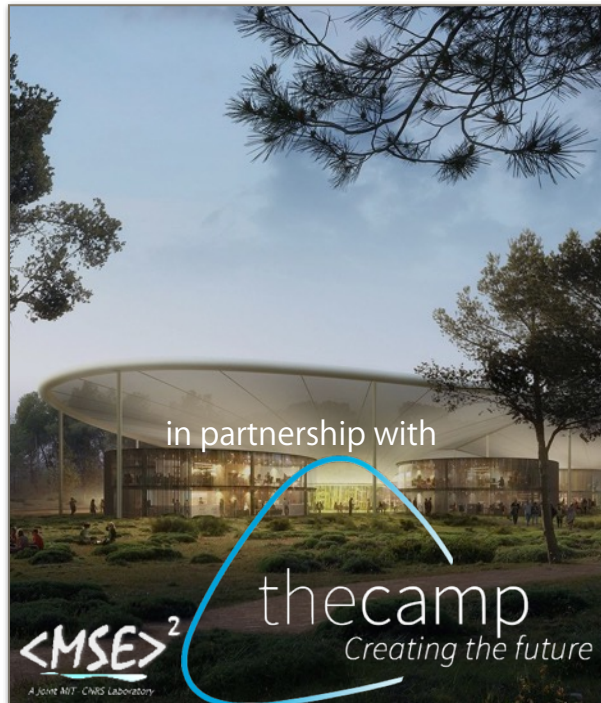
March 1, 2016

MIT Media Lab E14-674

75 Amherst Street

Cambridge, MA 02139

Organizers: T. Emig, R. Pellenq, F.-J. Ulm



## Morning program

- 8:00** Registration
- 8:30** Welcome  
R. Pellenq (Head UMI, MIT)  
F. Chevalier (Founder, TheCamp)  
B. Widdig (Director International Affairs MIT)  
V. Freland (Consul of France, Boston)
- Session 1: Urban Challenges**
- 9:00** L. Bettencourt (Santa Fe Institute)  
The Many Uses of Physics in the Study of Cities
- 9:30** C. Kontokosta (CUSP, NYU)  
The Quantified Community
- 10:00** J.-P. Bailly (thecamp)  
thecamp: an innovation ecosystem to transform people, organizations and cities
- 10:30** P. Dumas (Polytech Marseille)  
Smart grids and urban physics
- 10:45** T. Kemper (EU Commission)  
Mapping and Monitoring Cities from Space - the Global Human Settlement Layer
- 11:00** Coffee
- Session 2: Mobility**
- 11:30** M. Gonzalez (MIT)  
Data Science to tackle Urban Challenges in Transportation and Energy
- 12:00** M. Schreckenberg (Univ. Duisburg-Essen)  
Urban Road Traffic: Data, Models and Management
- 12:30** M. Akbarian (MIT)  
Carbon Management of Pavement Infrastructure using Data Analytics of pavement Life Cycle Impacts
- 12:45** "Rapid Fire" Presentations for Posters

## Afternoon program

- 1:00** Lunch
- Session 3: Energy and Climate**
- 2:00** C. Reinhart (MIT)  
Urban energy systems -Towards more sustainable city and neighborhood design
- 2:20** M. Ghandehari (CUSP, NYU)  
Persistent and Synoptic Phenomenology – Cities from Rooftops
- 2:40** B. Vant Hull (CUNY)  
Validation of a Spatially Fine Scale Statistical Urban Air Temperature Model
- 3:00** G. Dobler (CUSP, NYU)  
Better Cities through Imaging
- 3:20** F. O'Sullivan (Energy Initiative, MIT)  
The rise of distributed energy and the challenges ahead
- 3:45** Coffee
- Session 4: Human Aspects**
- 4:15** E. Ackermann (MediaLab, MIT)  
Building better cities: Forget smarts! Focus on mood!
- 4:45** Y. Bar-Yam (New England Complex Systems Institute & MIT)  
Human Urban Dynamics
- Session 5: Synthesis**
- 5:30** H. van Damme (UMI, MIT)
- 5:45** F. O'Sullivan (Energy Initiative, MIT)
- 6:00** R. L. Jaffe (Physics Dept., MIT)
- 7:00** Wine and cheese reception

