



CO₂-URBAN SYNTHESIS & ANALYSIS (CO₂-USA) WORKSHOP AGENDA

DAY 1: MONDAY, OCTOBER 7, 2019

1 Silber Way Boston, MA

9th Floor Ballroom

Remote Access: <https://bostonu.zoom.us/j/9893903297>

8:00-9:00 REGISTRATION, COFFEE, & BREAKFAST

INTRODUCTION, BACKGROUND

9:00-9:10 WELCOME, DESCRIPTION OF WORKSHOP OBJECTIVES
Lucy Hutyra, Boston University

9:10-9:30 AGENCY PERSPECTIVES
Ken Mooney and **Monika Kopacz**, NOAA
James Whetstone, NIST
Brandi Schottel, NSF
Kenneth Jucks, NASA

WHAT'S NEXT IN CITY CLIMATE MITIGATION

9:30-9:40 "NETWORKS, ASPIRATIONS, PROGRESS"
Katharine Lusk, Boston University

9:40-10:00 "CARBON DISCLOSURE PROJECT EVOLVING GOALS AND REPORTING"
Katie Walsh, Head, Cities, States and Regions, CDP North America

10:00-10:20 "HOW DO WE FUND URBAN CLIMATE CHANGE STRATEGIES AND RESEARCH"
John Cleveland, Executive Director, Boston Green Ribbon Commission

10:20-10:40 Q&A

10:40-11:00 COFFEE BREAK

11:00-11:30 KEYNOTE ADDRESS: URBAN SUSTAINABILITY DIRECTORS NETWORK
Sarah McKinstry-Wu, Programs Director, Equity, and Climate Planning, Urban Sustainability Directors Network

11:30-12:30 ADDRESSING CITY DATA PAIN POINTS - TRANSPORTATION
Conor Gately, Boston University
Christopher Bian, Google Environmental Insights Platform
Scott Peterson, Director of Technical Services, Boston Center for Transportation Planning Services
Alaa Mukahhal, Boston Transportation Department



- 12:30-13:30 LUNCH & NETWORKING
- 13:30-14:30 ADDRESSING CITY DATA PAIN POINTS - EMISSIONS FROM ORGANIC WASTE AND WASTE TO ENERGY
Michael Walsh, Science Lead, Carbon Free Boston, Boston University
Whendee Silver, Marin Carbon Project, UC Berkeley
Kevin Drew, Residential Zero Waste Senior Coordinator, San Francisco
Michael Orr, City of Cambridge
- 14:30-15:30 ADDRESSING CITY DATA PAIN POINTS – FUGITIVE METHANE EMISSIONS
Moderator: Steven Wofsy, Harvard University
Joe Rudek, Lead Senior Scientist, Environmental Defense Fund
Alison Brizius, Boston Director of Climate and Environmental Planning
Zeynab Magavi, HEET, Director
- 15:30-15:50 COFFEE BREAK
- 16:00-16:20 MODELS FOR CITY/UNIVERSITY COLLABORATIONS
Pamela Templer, Boston University, Director URBAN NRT
Karen Lightman, Carnegie Mellon, Metro21: Smart Cities Institute Executive Director
- 16:20-16:30 Q&A
- 16:30-17:00 PLENARY DISCUSSION
Katharine Lusk, Boston University
- 17:00-17:15 LIGHTNING TALKS
Intro to posters - 1 minute each
- 17:15-18:30 LIGHT RECEPTION & POSTERS

GROUP DINNER

- 19:30 DINNER AT DAHOD FAMILY ALUMNI CENTER AT THE CASTLE
Keynote: Steven Hamburg, Chief Scientist, Environmental Defense Fund



DAHOD FAMILY ALUMNI CENTER AT THE CASTLE
225 Bay State Rd, Boston, MA 02215



DAY 2: TUESDAY, OCTOBER 8, 2019

1 Silber Way Boston, MA

9th Floor Ballroom

Remote Access: <https://bostonu.zoom.us/j/9893903297>

8:00-8:45 REGISTRATION, COFFEE, & BREAKFAST

PRODUCTS AND DELIVERABLES FROM CO₂ - USA | CHAIR: JOHN LIN

8:45-9:05 NEW MERGED ATMOSPHERIC MODEL/HYSPLIT-STILT
Chris Loughner, University of Maryland, NOAA Air Resources Lab

9:05-9:20 CROSS-CITY MERGED GHG DATASET
Logan Mitchell, University of Utah

9:20-9:40 BIOSPHERIC FLUX DATASET IN DIFFERENT CITIES
Lucy Hutyra, Boston University

9:40-10:00 NEW ACES ANTHROPOGENIC EMISSION INVENTORY
Conor Gately, Boston University

10:00-10:15 DISCUSSIONS

10:15-10:30 COFFEE BREAK

BOTTOM-UP INVENTORIES | CHAIR: CONOR GATELY

10:30-10:45 URBAN HIGH-RESOLUTION EMISSIONS DATA PRODUCTS: CAPABILITIES, CONVERGENCE, AND COMPARISONS
Kevin Gurney, Northern Arizona University

10:45-11:00 EPA METHANE INVENTORY AT EPA
Melissa Weitz, Environmental Protection Agency

11:00-11:15 VISTA METHANE INVENTORY IN CALIFORNIA
Francesca Hopkins, UC Riverside

11:15-11:30 DISCUSSIONS

URBAN GHG OBSERVATORIES | CHAIR: JOCELYN TURNBULL

11:30-11:45 BALTIMORE-WASHINGTON URBAN GREENHOUSE GAS MONITORING NETWORK
Anna Karion, NIST

11:45-12:00 RADIOCARBON AND SOURCE ATTRIBUTION
John Miller, NOAA-ESRL

12:00-13:00 LUNCH



ADVANCES IN MEASUREMENT SYSTEMS | CHAIR: LOGAN MITCHELL

- 13:00-13:15 **GROUND-BASED COLUMN MEASUREMENTS**
Jonathan Franklin, Harvard
- 13:15-13:30 **OBSERVED CO₂ HOTSPOTS FROM SPACE: THE OCO-2 EXPERIENCE AND OCO-3 NEW CAPABILITIES**
Thomas Kurosu, NASA Jet Propulsion Laboratory
- 13:30-13:45 **LOW COST SENSOR NETWORKS AND LINKAGE TO AIR QUALITY**
Ron Cohen/Alex Turner, UC Berkeley
- 13:45-14:00 **LANDFILL METHANE FLUXES**
Daniel Cusworth, NASA Jet Propulsion Laboratory
- 14:00-14:15 **MOBILE MEASUREMENTS AND ANALYSES OF DATA FROM LIGHT RAIL AND GOOGLE STREET VIEW CARS**
Logan Mitchell, University of Utah
- 14:15-14:30 **DISCUSSIONS**
- 14:30-14:45 **COFFEE BREAK**

SYNTHESIS, CHALLENGES, NEXT STEPS | CHAIR: LUCY HUTYRA

- 14:45-15:00 **INVERSE MODELING AT URBAN SCALE**
Ken Davis, Penn State
- 15:00-15:15 **TIERED OBSERVING SYSTEM TO UNDERSTAND URBAN EMISSIONS**
Riley Duren/Chip Miller, NASA Jet Propulsion Laboratory
- 15:15-15:30 **WORLD METEOROLOGICAL ORGANIZATION'S INTEGRATED GREENHOUSE GAS INFORMATION SYSTEM (IG³IS)**
Phil DeCola, University of Maryland
- 15:30-15:45 **DISCUSSIONS**
- 15:45-17:00 **PLENARY DISCUSSION**
John Lin, University of Utah
Lucy Hutyra, Boston University

