

DOCKETED

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Project Title:	Natural Gas
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Document Title:	Joint Symposium and IEPR Workshop Agenda
Description:	Agenda for June 6th and 7th: Joint Symposium and IEPR Workshop Methane Emissions from California's Natural Gas System: Challenges and Solutions
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Joint Symposium and IEPR Workshop
Methane Emissions from California's Natural Gas System:
Challenges and Solutions
June 6-7, 2016
Cal EPA Byron Sher Auditorium

Objective: To bring industry, academics, government and non-government entities, and other interested stakeholders together to: discuss the current understanding of methane emissions across the natural gas supply chain; share ideas to increase knowledge and inform policies; and foster stakeholder interaction on current research and promote dialogue for next steps for reducing methane emissions in the natural gas system.

Monday June 6, 2016

8:15-9:10am *Opening Session*

Agency Priorities (*Richard Corey, ARB; Karen Douglas, Commissioner, CEC; Tim Sullivan, CPUC*)

Symposium Overview (*Kathleen Kozawa, ARB*)

9:10-10:10am *Session 1. Research Initiatives and Needs*

Moderator-Kathleen Kozawa, ARB

Methane Research Initiatives and Needs (*Jorn Herner, ARB*)

Investigating Methane Emissions from California's Natural Gas System (*Yu Hou, CEC*)

U.S. Federal Strategies to Cut Methane Emissions from Natural Gas Systems (*James Bradbury, DOE*)

Stanford Natural Gas Initiative (*Adam Brandt, Stanford*)

10:10-10:20am Break

10:20-12:00pm *Session 2. Methane Emissions and Measurements (AM)*

Moderator-Laurie ten Hope, CEC

California Methane Inventory-Needs and Gaps (*Anny Huang, ARB*)

EDF Studies Overview (*Ramon Alvarez, EDF*)

Methane Emissions from Natural Gas Distribution Pipelines in California (*Kristine Wiley, GTI*)

Distribution systems, pipeline replacement, and abandoned wells (*Robert Jackson, Stanford*)

12:00-1:15pm Lunch (lunch will not be provided)

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1:15-2:55pm *Session 2. Methane Emissions and Measurements (PM)*

Moderator-Bart Croes, ARB

Improvement of an Airborne Natural Gas Leak-Detection System for
Transmission Pipelines (*Steve Conley, UCD*)

From Wells to Burners: Methane Emissions from California Natural Gas
(*Marc Fischer, LBNL*)

Methane Hot Spots in California (*Chip Miller, JPL*)

Aerial mass balance studies throughout the US and implications for policy
(*Colm Sweeny, NOAA*)

2:55-3:05pm Break

3:05-4:45pm *Session 3. Current and Emerging Technologies-Methane Measurements*

Moderator-Tim O'Connor, EDF

From Mobile to Stationary: Current and Emerging Technologies in
Methane Measurements (*Tim O'Connor, EDF*)

Advanced Research Projects Agency-Energy (ARPA-E) MONITOR
Projects (Methane Observation Networks with Innovative Technology to
Obtain Reductions) (*Nate Gorence, DOE*)

sUAS (small unmanned aerial system) and application for methane
measurement (*Lance Christensen, JPL*)

Assessing Emissions from the Natural Gas Distribution System Using
Mobile Methane Techniques (*Chris Rella, Picarro*)

4:45pm Day 1 Wrap Up

Public Comment Period-CEC IEPR WORKSHOP ONLY

End Day 1

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Tuesday June 7, 2016

9:00-11:00pm *Session 4. Big Gas, Big Data, and Methane: Building a Monitoring, Verification and Performance Management System to Meet Climate Goals*

Moderator-Martin Kurtovich, CPUC

The Interaction of Methane Emissions Data and Mitigation, and an Investor's Perspective on Risk (*Tim O'Connor*)

Perspectives and Successes in Mitigating Methane Emissions from Energy Pipeline (*Robert Smith, PHMSA*)

NETLs Natural Gas Midstream Research Program (*Cynthia Powell-National Energy Technology Lab*)

Converting Challenges into Opportunities: Software for Distributed Methane Abatement (*Keith Driver, CapOp Energy*)

(*San Gunawardana, Enviroview*)

All Day Showcase (2nd floor lobby and courtyard)

- ABB
- Aeris Technologies
- ARB Research Division (GHG Mobile Platform)
- ARB Monitoring and Laboratory Division
- Heath Consultants
- FLIR
- LDAR Tools
- NASA Jet Propulsion Laboratory
- Picarro
- Pipeline Research Council International
- Pixel Velocity
- Physical Sciences
- Providence Photonics
- Thermo Fisher Scientific

11:00-12:30pm Showcase and Lunch (lunch will not be provided)

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12:30-4:30pm Session 5. *Policy Panel(s) Current and Emerging Policies: Reducing Emissions of Natural Gas Used by Californians*

12:30-2:00pm Regulatory Panel

Moderator-Saul Gomez, California Natural Resources Agency

Trina Martynowicz, Clean Energy and Climate Change Office, U.S. EPA Region 9

Arthur O'Donnell, Supervisor, Risk Assessment, Office of Utility Safety and Reliability, Safety and Enforcement Division, CPUC

Elizabeth Scheehle, Chief, Oil and Gas and GHG Mitigation Branch, ARB

Laurie ten Hope, Deputy Director, ERDD, Energy Commission

Additional Panelist Pending

2:00-2:10pm Break

2:10-3:40pm Stakeholders Panel

Moderator-Arthur O'Donnell, CPUC

Christine Cowsert, Senior Director of Asset Knowledge and Integrity Management, Pacific Gas and Electric

Deanna Haines, Director-Gas Engineering, Gas Engineering and System Integrity, Sempra Utilities

Kevin Hamilton, Central California Asthma Collaborative

Briana Mordick, Senior Scientist, NRDC

John Shears, Center for Energy Efficiency and Renewable Technologies

3:40pm Closing Remarks, Next Steps (*Elizabeth Scheele, ARB*)

4:00pm Public Comment Period-CEC IEPR WORKSHOP ONLY

End Symposium