

## RENEWABLE NATURAL GAS SYMPOSIUM

### *RNG ADOPTION FROM LAB TO MARKET – ADVANCING TECHNOLOGICAL INNOVATION AND EFFICIENCY GAINS*

The University of California, Riverside ♦ *CENTER FOR RENEWABLE NATURAL GAS*  
Bourns Technology Center ♦ 1200 Columbia Avenue ♦ Riverside, CA 92507

May 17, 2017

8:00 – 8:30 AM **Breakfast and Attendee Check In**

8:30 – 8:40 AM **Introductory Remarks: Matthew Barth**, Director, College of Engineering - Center for Environmental Research and Technology (CE-CERT), University of California, Riverside

8:40 – 9:00 AM **CRNG Overview: Arun Raju**, Director, Center for Renewable Natural Gas (CRNG), University of California, Riverside

9:00 – 9:30 AM **Decarbonizing the Pipeline**

*Keynote Presentation by George Minter*, Regional Vice President, External Affairs and Environmental Strategy, SoCalGas

9:30 – 10:45 AM **Panel Discussion 1 – Thermochemical RNG Production – Barriers & Opportunities**

The panelists will discuss the major challenges that must be addressed to enable widespread RNG production & utilization through thermochemical pathways.

*Moderated by: Arun Raju*, Director, CRNG, University of California, Riverside

*Panelists:*

- **Ron Kent**, Advanced Technology Development Manager, SoCalGas
- **Donald Taylor**, Chief Executive Officer, Taylor Energy
- **James Oyler**, President, Genifuel Corporation
- **Julia Levin**, Executive Director, Bioenergy Association of California

10:45 – 11:15 AM **Natural Gas in California: Challenges and Opportunities for Decarbonization**

*Keynote Presentation by Rob Oglesby*, Executive Director, California Energy Commission

11:15 – 11:30 AM Break

11:30 – 12 PM **Mitigating Short Lived Climate Pollutants - RNG's Role**

*Keynote Presentation by Ryan McCarthy*, Science, & Technology Policy Advisor, California Air Resources Board

12 – 12:30 PM Ribbon Cutting Ceremony

12:30 – 1:15 PM Lunch

### 1:15 – 2:15 PM **Panel Discussion 2 – Commercial Scale Power To Gas**

The panelists will discuss the need for commercial scale power to gas projects in California, the barriers to building plants and the long-term benefits.

*Moderated by:* [Jeff Reed](#), Director of Business Strategy and Advanced Technology, SoCalGas

*Panelists:*

- [Keith Wipke](#), Fuel Cell & Hydrogen Technologies Program Manager, National Renewable Energy Laboratory
- [Jack Brouwer](#), Associate Professor, University of California, Irvine
- [Stephen Jones](#), Managing Director, ITM Power

### 2:15 – 2:45 PM **Renewable Hydrogen – Nexus of Fuels and Power**

*Keynote Presentation by* [Keith Wipke](#), Fuel Cell & Hydrogen Technologies Program Manager, National Renewable Energy Laboratory

2:45 – 3 PM Break

### 3 – 4 PM **Panel Discussion 3 – Challenges to Expediting Commercial RNG Production**

The panelists will discuss the major challenges to commercial RNG production including regulatory barriers, need for private and public investment, and technology demonstration.

*Moderated by:* Johannes Escudero, Chief Executive Officer, Coalition for Renewable Natural Gas

*Panelists:*

- [Evan Williams](#), President, Cambrian Energy
- [Grant Zimmerman](#), Chief Executive Officer, ampCNG
- [Harrison Clay](#), Vice President Strategic Development, Global Environmental Products, British Petroleum

### 4 – 5:15 PM **Panel Discussion 4 – RNG Policy in California – Present & Future**

The panelists will discuss RNG related policy, impact of major policy initiatives, and key areas that must be addressed in the future.

*Moderated by:* Cliff Gladstein, President, Gladstein Neandross & Associates

*Panelists:*

- Fred Minassian, Assistant Deputy Executive Officer Technology Advancement Office, South Coast Air Quality Management District
- Johannes Escudero, Chief Executive Officer, Coalition for Renewable Natural Gas
- Paul Relis, Senior Vice President, CR&R
- Thomas Lawson, President, California Natural Gas Vehicle Coalition

5:15 – 5:30 PM **Closing Remarks:** [Michael Pazzani](#), Vice Chancellor for Research and Economic Development, University of California, Riverside

5:30 PM **CE-CERT Tour**

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