



## **Nexus of Oil & Gas and Renewables in the Energy Future**

**A two-day workshop hosted by  
International Energy Agency (IEA) Gas & Oil Technology (GOT) Collaboration Programme,  
the National Renewable Energy Laboratory, Joint Institute for Strategic Energy Analysis, and the  
Colorado School of Mines**

**AGENDA – As of August 15, 2017**

When: September 27-28

Where: National Renewable Energy Laboratory, Golden, Colorado, USA



## DAY 1: WEDNESDAY SEPTEMBER 27



### 8:30 – 9:00 AM – REGISTRATION AND BREAKFAST

### 9:00 – 9:15 AM – WELCOME AND INTRODUCTION

- **Jill Engel-Cox** – Director, Clean Energy Manufacturing Analysis Center, U.S. National Renewable Energy Laboratory
- **Jostein Dahl Karlsen** -- Chairman of IEA Gas & Oil Technology Collaboration Programme

### 9:15 – 10:30 AM KEY NOTE ADDRESSES

- **Bobi Garrett**, COO of NREL – Opening Remarks
- **Gov. John Hickenlooper**, Governor of Colorado – Keynote Address
- **Tim Gould** – IEA (invited)

### COFFEE BREAK – B2B NETWORKING

### 11:00 – 12:30 – INCORPORATING RENEWABLE ENERGY TECHNOLOGIES INTO OIL AND GAS OPERATIONS

*Moderator: Pat Findle – Gas Technology Institute*

- **Steven Geiger** – Solarlite
- **Professor Stefan Wiemer** – Swiss Seismological Service
- **Jeff Logan** – Chief Analyst, Integrated Systems – NREL/JISEA
- **Martin Goff** – Statoil

### LUNCH

### 1:30 – 3:15 PM – RECOVERING AND USING PROCESS HEAT AND WATER IN OIL AND GAS OPERATIONS

*Moderator: Dr. Nancy Haegel, NREL*

- **Susan Brodie** – Executive Director, Heat is Power Association
- **Dave Ginley** – Research Fellow, NREL
- **Jon Freedman** – Vice President, Global Partnerships and Policy, GE Water
- **Tzahi Cath** – Associate Professor, Department of Civil and Environmental Engineering, Colorado School of Mines

### COFFEE BREAK – B2B NETWORKING

### 3:30 – 4:00 PM – FIRST DAY CLOSING DISCUSSION

*Moderator: Jostein Dahl Karlsen*

### 4:00 – 5:30 – TOUR OF NREL

*Tour of NREL's Energy Systems Integration Facility*

### 5:30 – ADJOURN

### 6:00 – 7:30 PM – NETWORKING RECEPTION

*Colorado School of Mines, Geology Museum*

- **Ramona Graves** – Dean, College of Earth Resource Sciences and Engineering, Colorado School of Mines – Evening Keynote Address

## **DAY 2: THURSDAY SEPTEMBER 28**

### **8:30 – 9:00 – REGISTRATION AND BREAKFAST**

### **9:00 – 10:15 – OPTIMIZED DELIVERY OF GAS AND RENEWABLE ELECTRICITY AND HEAT FOR UTILITIES**

*Moderator: Doug Arent, Executive Director, JISEA*

- **Daniel Lee** – SVP, Fossil and Hydro Integration, AEP Energy Inc
- **George Wayne** – Director Merchant Services, Kinder Morgan Pipeline Company
- **David Rosner** – Director Office of Energy Policy and Innovation, FERC
- **Wesley Cole** – Electric Systems Modeler/Analyst, NREL/JISEA

### **COFFEE BREAK – B2B NETWORKING**

### **10:45 – 12:00 - PETROLEUM INDUSTRY INVESTMENT IN THE BUSINESS OF RENEWABLE ENERGY**

*Moderator: Bob Baldwin, Principal Scientist, NREL*

- **Dave Cepla** – Global Business Development, Honeywell UOP's Renewable Energy and Chemicals
- **Marit Brommer** – Executive Director, International Geothermal Association
- **Ellen van der Veer** – Geo-Energy Consultant, TNO

### **LUNCH**

### **1:00 – 2:30 NEXT STEPS IN THE GLOBAL DIALOGUE – A MODERATED DISCUSSION BY ALL PARTICIPANTS**

*Moderator: Jostein Dahl Karlsen*

- **Paul Doucette** – Review of GOT Program of Work
- **All** – Discussion related to Renewable Energy and Oil and Gas Synergies

### **2:30 – 2:45 – CLOSING REMARKS**

- **Jill Engel-Cox** – NREL
- **Jostein Dahl Karlsen** – GOT

### **3:00 ADJOURN**

### **3:15 – 5:00 OPTIONAL OFF-SITE TOUR**

*Tour of NREL's National Wind Technology Site and Solar Test Facilities*