



SEPT 30 - OCT 3, 2024

Hilton Garden Inn Calgary Downtown **Calgary, AB, Canada**



afrc.net/symposium

AGENDA

MONDAY, SEPTEMBER 30

6:00 - 8:00 PM WELCOME RECEPTION

TUESDAY, OCTOBER 1

7:00 AM - 5:30 PM REGISTRATION OPEN

8:00 - 8:30 AM OPENING REMARKS

8:30 AM - NOON MORNING PRESENTATIONS

Effects of Crosswind Turbulence on the Combustion Efficiency of Non-assist Waste Gas Flares

Experimentally Validated Data Analytics Method for Gas Flare Combustion Efficiency Monitoring

Non-assisted Flare Performance at Low-flow (<100 MSCFD) Conditions

Burner Management Strategies for an Oxy-fired Lime Kiln

Integrated Approach to Efficiency Improvement in Fired Heaters

Field Experience with Extremely Low NOx Burners in High Heat Intensity Heaters

NOON - 1:00 PM LUNCH

1:00 – 3:00 PM AFTERNOON PRESENTATIONS

An IoT-Based Multi-Gas Sensor to Identify Flameout Precursors

Discussion on the Viability and Robustness of VISR: A Mid-wavelength Multispectral IR Imaging Approach

Characterizing Hydrocarbons in Flare Plumes Using a Longwave Infrared Imaging Fourier Transform Spectrometer

Computational Fluid Dynamics Simulation of Combustion Efficiency for Full-size Upstream Flare Experiments

4:00 - 5:30 PM AFRC BUSINESS MEETING

6:30 - 9:00 PM SYMPOSIUM DINNER

WEDNESDAY, OCTOBER 2

7:30 - 8:30 AM

CONTINENTAL BREAKFAST

8:30 AM - NOON MORNING PRESENTATIONS

Assessment of Natural Gas Substitution with Hydrogen on Heat Transfer and NOx Emissions

Improved Flare Emissions Monitoring for Plant Operations

Hydrogen Firing in a Tangentially Fired Boiler Burner

Combustion Fuel and Air Control Strategies for Hydrogen and Natural Gas Mixtures

Swiss-roll Combustor: A Low-cost Solution for Addressing the Significant Methane Emissions Problem from Low-production Oil and Gas Sites

A Probabilistic Approach to Cellulose Thermal Depolymerization

12:30 - 1:30 PM LUNCH

1:00 - 4:30 PM AFTERNOON PRESENTATIONS

Advancement in Ultra-Low-NOx-Burner Technology – Next Generation Burner for Hydrogen Firing

Results of a Hydrogen Fueled Extremely Low NOx Burner Test Program

Advanced Hydrogen Burner for Commercial and Industrial Applications

Ammonia Flare Testing for the Hydrogen Production Industry

Low BTU Flare Tip Technology Breakthrough A Key Enable of Net Zero

Regulatory Update for Refinery, Petrochemical, and Upstream Flares

EVENING

DINNER ON OWN

Program content as of June 17, 2024.

Review the program at afrc.net/symposium for future program updates.

THURSDAY, OCTOBER 3

7:00 - 8:00 AM	CONTINENTAL BREAKFAST
8:00 - 9:00 AM	KEYNOTE PRESENTATION Professor Phillip Smith, Professor Emeritus, University of Utah
9:00 AM - NOON	TOTEM SESSION Green Hydrogen: Advances in CFD Simulations of Industrial Hydrogen Flames
NOON	SYMPOSIUM CONCLUDES

REGISTRATION INFORMATION

REGISTRATION FEE: \$645 USD

REGISTRATION INCLUDES:

- Admission to all Symposium sessions
- AFRC Business Meeting
- Topic-Oriented Technical Meeting (ToTEM): Green Hydrogen: Advances in CFD Simulations of Industrial Hydrogen Flames
- Welcome Reception on Monday evening.
- Refreshment breaks each day.
- Continental breakfast on Tuesday, Wednesday, and Thursday.
- Lunch on Tuesday, and Wednesday.
- Dinner on Tuesday Only.
- Access to papers online after the Symposium concludes.

REGISTER AT AFRC.NET/SYMPOSIUM



HOTEL & TRAVEL INFORMATION

HILTON GARDEN INN CALGARY DOWNTOWN

711 4th St. SE Calgary, AB, Canada T2G 1N3 1-587-352-2020

ROOM RATES \$199 CAD

RESERVATION REQUIREMENTS

A credit card is required to guarantee individual reservations when booking.

HOTEL RESERVATION CUTOFF

The hotel will offer our discounted group rate until September 5. Reservations booked thereafter will be on a space and rate availability basis.

HOTEL CANCELLATION

Reservations must be cancelled at or before 11:00 AM MDT, 72 hours (3 days) prior to arrival to avoid a cancellation penalty.

HOTEL PARKING

Self-parking is available for \$30 CAD per day.

CLICK HERE TO MAKE A HOTEL RESERVATIO

AIRPORT

Calgary International Airport (YYC) is approximately 20 km (12.5 miles) from the Hilton Garden Inn Calgary Downtown. Taxis and ride-share options (Uber/Lyft) are the best way to reach the hotel. YYC is serviced by the following airlines: • Delta

- WestJet
- Air Canada
- Flair Airlines
- Lufthansa
- American Airlines
- Alaska Airlines
- United

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