

The Call for Papers
The 45th International Technical
Conference on
Clean Energy

June 20 to 25, 2021

Clearwater, Florida, USA

If You Want To Learn More About Innovations That Are Meeting The Challenges to Energy Utilization From The World's Key Planners, Leading Experts and "Super Scientists"

In The Most Comprehensive Program on Energy Technologies With Representatives From Six Continents, Then You Must Attend

The Clearwater Clean Energy Conference



Advances in batteries and energy storage are of special interest as we continue to seek greater use of renewable energy. Papers are solicited on fundamental advances in energy storage, and applied technology development and applications.

As you know, we were not able to hold the 45th conference in 2020 because of the Corona virus. However, we already have nearly 100 papers for the technical sessions and are seeking additional papers for 2021. We intend to continue our tradition of offering technical sessions that reflect what is important in the industry. Our Panels, Short Courses and Technical Sessions will cover all of the critical technological issues of the day.

MISSION STATEMENT – Increased demand – coupled with energy security issues, and uncertainty in the oil sector, – **make this conference a must for those involved in all aspects of power generation** who must meet the competitive pressures and environmental concerns in the 21st century.

The current Administration continues to bring in many more challenges and opportunities for the energy sector. We plan to cover all the proposed programs and policies. As changes and additions occur, we will cover them.

CONFERENCE HIGHLIGHTS

International Programs – Technical Developments – Policy Issues

Papers from the international community are strongly encouraged. In the 2019 conference nine countries were represented at the conference. In addition, one-third of all attendees were from the international community. The international papers were related to energy/environmental developments throughout the world.

The Committee also encourages papers that deal specifically with the topics covered in the Keynote Session, Panels, Short Courses and Plenary Sessions.

PANELS – To provide our attendees with the most comprehensive and up-to-date information from the world's energy leaders, we offer panel presentations covering an overview of emerging, evolving, and innovative technologies, fuels, policy and/or equipment in the power generation industry.

SHORT COURSES On Sunday, June 20th, we offer Short Courses on a wide variety of topics important to the energy community. **Participation is optional; is**

included in the registration fee; and open to all conference registrants. So far this is what we have to offer:

- **NO_x Guarantees: What Do They Really Mean?**
J.J. Letcavits, AEP, and Alan Paschedag, Covanta
- **Introduction to Sorbents and Catalysts**
Evan Granite, National Energy Technology Laboratory, U.S. Department of Energy
- **Applications and Basics of Oxy-Fuel Combustion**
Dr. Lawrence E. Bool, Praxair
- **Radiation Fundamentals in Combustion Systems**
Prof. Brad Adams, Brigham Young University
- **Introduction to Natural Gas Processing**
Evan Granite, National Energy Technology Laboratory, U.S. Department of Energy

THEMED LUNCHEON – A conference favorite is the Themed Luncheon. Industry leaders host tables of 8 where a specific topic is chosen by the host for discussion during lunch. We will have 10 or 12 tables at the luncheon for topics.

BACKGROUND – At the direction of the Conference Committee, it was decided to broaden the scope of the conference to include some new and exciting technologies

currently on the horizon. Industry professionals representing nearly all the major players in the electric utility industry were in Clearwater, Florida, USA for the **44th Clearwater Clean Energy Conference**.

This conference has earned a reputation for excellence as one of the premiere conferences on coal technologies as it grows in size and scope since its inception in 1975.

Through the Technical Sessions, Short Courses, and Panels, cutting-edge developments dealing **with technical solutions to problems; specific strategies; projects; innovations; industry trends;**

and/or regulatory compliance will be offered.

The program presents an extensive overview of emerging, evolving, and innovative technologies, fuels and/or equipment in the power generation industry. We seek papers from all countries worldwide.

The **Clearwater Clean Energy Conference** will offer participants more than 200 technical presentations in four days. Buffet style luncheons in the Exhibit Center (an area dedicated for the use of attendees all day), refreshment breaks and a fabulous reception offer numerous networking opportunities.

CALL FOR PAPERS
2021 Clearwater Clean Energy Conference
The 45th International Technical Conference
on Clean Energy
June 20, to 25, 2021
Sheraton Sand Key, Clearwater, Florida, USA

ABSTRACT REQUIREMENTS

The **ONE PAGE ABSTRACT**, required by January 10, 2021, must be submitted via email and include:

The Clearwater Clean Energy Conference does not provide financial support to authors. The registration fee covers one technical paper; authors

- The Proposed Paper with Exact Title and one page of information (no equations and no figures) must summarize the objective and current status of the work; and provide the committee with an accurate scope of the paper. **Please indicate under which Technical Topics this paper falls.**
- Principal Presenter Listing (name, title, company, address, phone, and email). Email addresses are required since this will be the primary mode of communication. Please include Complete Listings for all Co-Authors (name, title, company, address, phone, FAX and email).

The Principal Presenter is the person to whom all correspondence will be sent and who must meet the deadlines and obligations of the conference: making a presentation at the 2019 conference; submitting a manuscript; and paying a conference fee.

The non-refundable registration fee of \$795 is due before January 31, 2021. There is no reimbursement for time spent or

submitting more than one paper must include an additional \$100 per paper.

Notification of acceptance will be made immediately. A manuscript for inclusion in the Proceedings and for distribution on thumb drive (not to exceed 12 pages in length, with illustrative material) is required by **April 16, 2021.**

Instructions for preparation of manuscripts will be sent with letters of acceptance. Presentations will be scheduled in Panels and Technical Sessions, as determined by the Conference Committee. The **ONE-PAGE** abstract should be sent via email to BarbaraSak@aol.com.

Best Student Paper Award – Over the years the conference has benefitted from the many excellent papers given by students. To give these exceptional students well-deserved recognition, the Conference Committee awards the best paper from a student with the **Clearwater Clean Energy Conference Best Student Paper Award**. The student will be evaluated in the quality of the paper, grasp of the topic presented and quality of the presentation at the conference. The student must be present to win.

expenses incurred in preparing manuscripts or illustrations, or for transportation to, and expenses at the conference.	
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THE CONFERENCE COMMITTEE The dedicated efforts and expertise of each Committee member result in the excellent Technical Program offered each year. They reach out to all segments of the energy industry so that the state-of-the-art (and beyond) is presented. Through their hard work, we offer a world-renowned conference each year. This year's Conference Committee members are:

Adelhi University
 Dr. John Doohar
AEP, J.J. Letcavits
AECOM, Dr. Guisu Liu
Air Liquide, Bhupesh Dhungel
Arizona State University
 Dr. Klaus S. Lackner
The Babcock & Wilcox Company, Thomas Flynn
Babcock Power Inc.
 Brian Vitalis
Boiler Combustion & Emissions Control Consultant
 Dr. Edmundo R. Vasquez
Boise State University
 Prof. JoAnn Lighty
Brigham Young University
 Prof. Bradley Adams and
 Prof. Andrew Fry
CANMET Natural Resources Canada
 Dr. Ligang Zheng
Chalmers University of Technology
 Prof. Klas Andersson and
 Fredrik Lind
Covanta, Alan Paschedag
CSIRO
 Dr. Louis Wibberley and
 Dr. David Harris
Electric Power Research Institute, Horst Hack

Mitsubishi Hitachi Power Systems Europe GmbH,
 Gosia Stein-Brzozowska
Monash University
 Dr. Sankar Bhattacharya
Northeastern University
 Dr. Yiannis A. Levendis
Ohio University, Dr. Gerardine G. Botte
Ontario Power Generation,
 Les Marshall
Pennsylvania State University
 Bruce G. Miller
Praxair, Inc.
 Dr. Lawrence E. Bool III (Co-chair)
Reaction Engineering International
 Kevin Davis
Ruhr-University Bochum, Department of Energy Plant Technology, *Prof. Viktor Scherer*
Somerset Pty Ltd., Dr. Dave Osborne
Tampa Electric Company
 Yogesh M. Patel and Byron Burrows
Tsinghua University
 Dr. Yao Qiang
University of Alberta
 Dr. Rajender Gupta
University of Kentucky
 Dr. Kunlei Liu
University of Maryland
 Dr. Ashwani Gupta
University of Newcastle
 Prof. Terry Wall

Energy & Environment

Prof. Dr.-Ing. Klaus R. G. Hein
(Chairman Emeritus)

**Energy & Environmental
Research Center, University of
North Dakota**

Christopher J. Zygarlicke and
Josh Stanislawski

EverSource

Bonnie Courtemanche

Gas Technology Institute

Howard Meyer

GE – Alstom Power Inc.,

Frederic Vitse

**Huazhong University of
Science**

Prof. Chuguang Zheng

**Institute for Chemical
Processing of Coal**

Dr. Jaroslaw Zuwala

ION Engineering

Dr. Erik Meuleman

**Jiangnan Environmental
Technology, Inc. (JET)**

Robert Nicolo

KeyLogic Systems Inc.,

Massood Ramezan

**Korea Advanced Institute of
Science and Technology,**

Assoc. Prof. Jeong Ik Lee

Lehigh University

Dr. Edward K. Levy

**University of North Carolina at
Charlotte**

Dr. Nenad Sarunac

University of South Carolina

Prof. Jochen Lauterbach

University of Utah

Prof. Eric Eddings, and Kevin Whittey

**U.S. Department of Energy,
National Energy Technology
Laboratory**

Dr. Ronald Breault (Co-Chair)

**Wrocław University of Technology,
Poland**

Halina Pawlak-Kruczek Ph.D., D.Sc.,
and Dr. Janusz Lichota

**45th International Technical Conference
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June 20 to 25, 2021
Clearwater, Florida, USA**

Endorsing Organizations:

- **American Institute of Chemical Engineers**
- **American Public Power Association**
- **CANMET Natural Resources, Canada**
- **China Coal Research Institute**
 Ministry of Coal, People's Republic of China
- **Edison Electric Institute**
- **Export Assistance Center, U.S. Commercial Service**
- **International Energy Agency: Coal Research**
- **Japan Coal Energy Center (JCOAL)**
- **National Mining Association**
- **National Rural Electric Cooperative Association**
- **Ohio Coal Development Office**
- **U. S. Geological Survey**

The Clearwater Clean Energy Conference

Deadline for Abstracts: January 10, 2021

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