



Call for papers - 28th International Conference Impacts of Fuel Quality on Power Production and the Environment September 21st – 25th, 2020, Åre, Sweden

This conference, 28th in the series, will highlight solutions to the significant fuel-quality challenges facing power producers utilizing current power technologies such as fluidized bed, sub-critical boilers, incineration as well as newer technologies such as IGCC, PFBC, super- and ultra-super-critical boilers, oxy-fuel systems, gasifiers, etc. These challenges involve fuel preparation and blending, slagging, fouling, corrosion, aerosol formation, ash disposal, catalyst poisoning, availability and capacity, as well as sensors and control strategies. The conference emphasizes end-results and application of fundamental information to minimize fuel quality impacts on power production and the environment. The conference will focus on traditional fuels, particularly traded coals, low grade and low-rank coals and opportunity fuels such as biomass, tires, black liquor, MSW, waste sludge and pet coke. Fundamental studies, pilot-scale investigations, full-scale evaluations and computer simulation papers are encouraged.

Sessions for the conference will include, but are not limited to, the following:

- Coal and opportunity fuels such as waste and biomass
- Fuel characterization, preparation and upgrading
- Co-combustion
- Ash characterization
- Slagging
- Deposit build-up, consolidation and shedding
- Fly ash and aerosol formation
- Corrosion at high temperatures
- Influence of ash on process performance: Operational and emission problems
- Diagnostics, sensors and controls

Fuel Quality/Ash Deposition Conferences – History

The first deposition conference was held at the Marchwood Engineering Laboratories in the UK in 1963. Since that time 27 excellent conferences have been held to provide interchange, dialogue, experiences and results among those who deal with the many opportunities afforded by fuel quality.

Over the past several years, the conference is held biennially and continues to focus on fuel characteristics and their paramount importance in power production. The format for this conference will follow past conference tradition, that is, morning and evening sessions in which major presentations are made and time during the afternoons for ad hoc meetings and informal discussions. The format is designed to enhance rapport among participants and promote dialogue; all participants are encouraged to contribute actively to the discussions.

Executive Committee:

Stan Harding – Chair
Flemming Frandsen
Raj Gupta
Frida Jones
Terry Wall
Maria Zevenhoven

Scientific Committee:

Sumantra Bhattacharya *Markus Broström*
Sonja Enestam *František Hrdlička*
Mikko Hupa *Jörg Maier*
Yoshihiko Ninomiya *Roman Weber*
Franz Winter *Hong Yao*

Impacts of Fuel Quality on Power Production and the Environment

Abstract Submissions

Original papers for either oral or poster presentation in the above-listed sessions are invited. If you wish to be considered for an oral or poster presentation, please submit a one-page abstract by February 15, 2020. Authors should submit the abstract electronically to one of the conference organizers listed below or e-mail the abstract directly to ifq2020.tfe@umu.se. Conference and session chairs will review all abstracts and notify you regarding acceptance of your abstract as an oral or poster presentation. The conference proceedings will be published in electronic format. Selected papers presented at the conference are also published in a reputed international journal.

Timeline for the conference is as follows:

<u>Date, 2020</u>	<u>Action required</u>
March 15 th	Submit abstracts, extended deadline!
February 15 th	Submit abstracts
April 10 th	Authors notified of selection of papers and posters for presentation
August 20 th	Submit full papers for presentation

Conference Fees

The conference fee includes registration, publication, meals, taxes and gratuities from reception on Sunday evening through lunch on Friday. The tentative fee is:

- Participant: 6500 SEK
- Bona fide graduate students: 5500 SEK
- Participant guest (meals and one excursion): 3500 SEK

Conference Location

The conference will be held at the Åre Holiday Club resort. Åre is a traditional skiing resort that nowadays offers year-round activities including mountain biking, hiking, paragliding, kayaking, golf, and, most importantly, recreation. Åre is accessible from either Åre Östersund Airport, Sweden (1 hr drive), or from Trondheim/Vaernes airport, Norway (2 hr drive). There is no regular shuttle transfer from the airports during the conference week. Taxi and rental cars are available (preferably pre-booked) at the airports, as well as in Åre. There are also daily departures with direct trains to Åre from Malmö, Gothenburg, and Stockholm, Sweden, and from Trondheim, Norway. The train stop in Åre is next to the hotel. The accommodation has been reserved at Åre Holiday Club, where the conference takes place.

Contact Us:

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Committee Chair: Stan Harding, N. S. Harding & Associates, North Salt Lake, UT, USA.

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If you know of colleagues who would be interested in this conference, please direct them to the conference web site or have them contact one of the organizers directly.