

AMPERE 2017 2nd Call for Abstracts

This is the second call for abstracts for the 16th biannual International Conference on Microwave and High Frequency Heating organized by Delft University of Technology and AMPERE. The conference will be held in Delft in the Netherlands, from 18-21 of September 2017. The deadline for the submission of abstracts is the *30th of March 2017* with decisions communicated to authors in the second half of April 2017.

The conference is an occasion for researchers and engineers from academia and industry to exchange innovative research ideas and to promote the most recent advances in the applications of microwave and high frequency technologies at both laboratory and industrial scales.

The technical program evolves around microwave and high frequency development and applications:

- Dielectric properties measurement
- Microwave and high frequency material interaction
- Industrial applications and scale-up
- Microwave and high frequency supply design
- Modeling of microwave and RF power applications
- Microwave and RF plasma applications

Special interest theme – Process Intensification

In addition, a special interest theme of the conference is chemicals and materials process engineering. These topics comprise of:

- Microwave assisted chemistry and processing
- Process intensification with electromagnetic energy
- Sustainable Chemistry & Biochemistry
- Biomass and waste processing
- Materials processing
- Medical and biological applications

Plenary speakers

- **José Manuel Catalá Civera** (Universitat Politècnica de València)
Title: Measurement technologies for emerging microwave heating processes.
- **Carlo Groffils** (Microwave Energy Application Consult)
Title: microwave applications in the Benelux.
- **Richard van de Sanden** (Dutch Institute for Fundamental Energy Research (DIFFER))
Title: Nonequilibrium plasma chemistry to improve kinetics and selectivity of chemical transformations.
- **Georgios Dimitrakis** (University of Nottingham).
Title: The use of dielectric spectroscopy for process monitoring and optimization.

Short course on radio frequency and microwave heating

- Basic Principles of RF and MW Heating (Prof. José Fayos-Fernández, Universidad Politécnica de Cartagena)
- Dielectric Property Measurements (Prof. Jose M. Catala-Civera, Polytechnic University of Valencia)
- Coffee break
- Microwave Applicator Design Criteria (Prof. Paolo Veronesi, University of Modena and Reggio Emilia)
- Lunch
- Modelling of RF and MW Heating Systems (Prof. George Dimitrakis, University of Nottingham)
- Review of Industrial Applications (Prof. Vaidhy Vaidhyanathan, Loughborough University)

Venue and social program

- The **conference venue** is the Aula Congress Center of the TU Delft, located in the heart of the university campus.
- **Gala Dinner at De Lindenhof**, a 1880s cultural centre for the personnel of the Gist and Spirits Industry.
- **Opening reception** at Royal Delft, Royal Dutch Delftware Manufactory "De Koninklijke Porceleyne Fles".
- **Boat tour and Reception*** in Town Hall Delft
- **Royal Delft, tile workshop***, during this workshop you create your own hand painted Delftware tile. You can choose for a classical design or make your own.
- **Guided Tour Mauritshuis***, The Mauritshuis in The Hague is home to the Best More than two hundred top works from Dutch and Flemish masters.
- **September 19th 'Prinsjesdag'*** the annual address of the monarch to parliament, which is accompanied by celebration around the honorary procession of the monarch through The Hague.

(*Ticket fee and transportation not included in conference fee, refer to the website for pricing and information:<http://www.ampere2017.nl>)

Abstract and paper submission, registration

Abstract and full paper submission should be done through the website of the conference, <http://www.ampere2017.nl>. Then click the tab 'Author Information'. Other communication can be directed to AMPERE-3me@tudelft.nl. Registration is also done via the website, click the tab 'Registration & Fees'.