

AMPERE 2017

16th International Conference on Microwave and High Frequency Heating

September 18-21, 2017, Delft University of Technology, Delft, The Netherlands

<http://www.ampere2017.nl>

The AMPERE-2017 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.

Program and special interest theme – Process Intensification

The 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

In addition, a special interest theme of the conference is chemicals and materials process engineering, including:

- 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 (a partial list):

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

Short course

Prior to the conference a short course will be organized on radio frequency and microwave heating, including:

- Basic Principles of RF and MW Heating (Prof. José Fayos-Fernández, Universidad Politécnica de Cartagena)
- Dielectric Property Measurements (Prof. José M. Catalá Civera, Universitat Politècnica de València)
- Microwave Applicator Design Criteria (Prof. Paolo Veronesi, University of Modena and Reggio Emilia)
- 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.

