

First Call for Papers AMPERE 2021

GOTHENBURG, SWEDEN 13-16 September 2021

18th International Conference on Microwave and High Frequency Applications

The Association for Microwave Power in Europe for Research and Education (AMPERE) is pleased to announce the 18th International Conference on Microwave and High Frequency Applications: AMPERE 2021, the largest event in Europe dedicated to scientific and industrial applications of microwave and radiofrequency power systems.

After a year of travel restrictions, conference cancellations and local curfew, we have faith in the development of 2021. We believe that the pandemic will be defeated by the end of the summer, and there is an urge to meet again and restart the progress of our research projects. The planning continues for a physical meeting in Gothenburg, Sweden, in September. In case the pandemic is not regressing as anticipated, the meeting will still run on the same dates, however fully digital.

The conference presents the status and trends in the multidisciplinary fields of microwave and radiofrequency applications, such as heating, sensing and processing. It includes microwave sources, antenna beams, dielectric properties, material processing, modelling, and high-power systems and technologies. The 18th AMPERE conference will also highlight topics of medtech and metrology.

The AMPERE conference is a unique opportunity for the presentation and discussion of the most recent advances in microwave technology and its applications. The conference provides many opportunities for researchers and engineers from academia and industry to exchange innovative ideas, discuss collaborations, and to network with international experts in a wide variety of specialties of microwave and high frequency technologies at both scientific and industrial scale.

Important dates during 2021

Submission of abstracts	Acceptance notification	Early bird rate ends	Submission of full paper	Registration for authors closes	First day of conference
Feb 14	May 6	June 6	June 13	June 27	September 13

AMPERE2021

18th International Conference on Microwave and High Frequency Applications

AMPERE is a four-day conference with an interesting combination of Keynote speakers and invited research papers but with a solid foundation of contributions from participant researchers. The submission process is in two stages, where a one-page abstract is reviewed by a scientific committee, and if accepted the author is invited to write a full-length paper before the conference.

Topics are focused on recent Advances in Microwave and HF applications in areas for example but not limited to:

- Food Processing and Process intensification
- Biomass and waste processing
- Chemistry/biochemistry and processing
- Medical and Biological Applications
- Design of Applicators and Components
- Solid State Technology
- Dielectric and Magnetic Material Properties and Measurements
- Measurements and Metrology
- EM Modelling and Numerical Techniques
- Material interaction
- Industrial Equipment and Scale-up
- Applications in Automated Driving
- Radiation Safety and Standards
- Frequency Sources and Power Supply Design
- Energy Production (including renewable energy and chemicals)
- Plasma phenomena and processing (CVD, cleaning, nanoparticles...)
- Terahertz and Millimeter Wave Applications
- Trends in Microwave and HF Processing

Sponsorship and exhibition

There will be a technical exhibit in conjunction with the conference, and several further opportunities for sponsor to get enhanced visibility. If you are interested in these options, please send an email to the secretariat below, with the subject “sponsor” or “exhibition”.

More than a conference

AMPERE2021 will be more than a conference, it will be a meeting point for science, business and education.

A short course and a modelling workshop will be organized on the first day, and booths will be available for company exhibitions on all days of the technical presentations.

Bookmark www.ampere2021.com to stay updated, or email your questions to ampere2021@meetx.se

Chalmers University of Technology, Gothenburg

The conference will be held on 13-16 September 2021 at Chalmers University of Technology. Chalmers was established in 1829 and is one of the leading technical universities in Sweden.

Gothenburg is located on the west coast of Sweden and is easy to reach through its international airport that has direct flights from most major European cities. The industry includes automotive, food industry, communication, shipping, medtech and defense, all with different interests in the development of microwave technologies.