



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

ITACA Institute
Information and Communication Technologies



AMPERE 2019

17th International
Conference on Microwave
and High Frequency Heating

Valencia, Spain
September 9-12, 2019



Congress UPV

17th International Conference on Microwave and High Frequency Heating

The contents of this publication have been evaluated by the Scientific Committee which it relates and the procedure set out

<http://ocs.editorial.upv.es/index.php/AMPERE2019/AMPERE2019/about/editorialPolicies>

© **Scientific Editor**
Beatriz García Baños

© **Publisher**
Editorial Universitat Politècnica de València, 2019
www.lalibreria.upv.es / Ref.: 6475_01_01_01

ISBN: 978-84-9048-719-8 (print version)

Print on-demand

DOI: <http://dx.doi.org/10.4995/AMPERE2019.2019.10535>



17th International Conference on Microwave and High Frequency Heating

This book is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives-4.0 Int. Licensed
Editorial Universitat Politècnica de Valencia

Based on a work in <http://ocs.editorial.upv.es/index.php/AMPERE2019/AMPERE2019>

17th International Conference on Microwave
and High Frequency Heating

AMPERE
2019

AMPERE 2019

17th International Conference on Microwave and High Frequency Heating



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

Editor:

Beatriz García Baños

ITACA Research Institute

Universitat Politècnica de València

Valencia, September 9-12, 2019

Valencia, Spain, September 9-12, 2019

17th International Conference on Microwave
and High Frequency Heating

AMPERE
2019

Welcome



Valencia, Spain, September 9-12, 2019

WELCOME LETTER FROM THE AMPERE PRESIDENT

Dear AMPERE Association Members;

Dear Conference Attendees;

Dear Conference Organizers;

I am delighted to share this important event with all of You!

Those of You who are longtime members might have already participate to the previous editions of the conference series: "International Conference on Microwave and High Frequency Heating" organized by AMPERE EUROPE members every two years.

This is the second time we benefit of extraordinary hospitality, unwavering dedication, and perfect organization of the group in Valencia Polytechnic University, in 1999 led by prof. Elías de los Reyes and this year led by proff. José Manuel Catalá-Civera and Felipe Peñaranda Foix, as Conference Chairs.

We thank our outstanding Sponsors and Exhibitors, our Plenary and Keynote Speakers, Short Courses lectures, and all the oral and poster presenters that will approach these 3 days of intense conference schedule with enthusiasm and competence.

The incredible high number of abstracts, submitted from all over the globe, reflects the interest of academy and industry towards the most recent applications of MW and RF high power technologies in this peculiar time of ongoing changes in the technology of the high power microwave generators.

Strengthening our academic knowledge with equipment and software producers, with sensors and filter manufacturers, with professionals and consultants, with young researchers and students, this event will contribute to diffuse MW and RF technology worldwide.

I am honored to be serve as AMPERE President such a vivid community.

Warm welcome to all of you!

Cristina Leonelli, AMPERE President