



# IMPI'S 56<sup>TH</sup> ANNUAL MICROWAVE POWER SYMPOSIUM

The Premier Industry-Wide Microwave Power Event

## 2022 CALL FOR PAPERS

Submission Deadline: *January 14, 2022*

The International Microwave Power Institute invites scientists, engineers, industry professionals and users to submit papers in all areas of research, development, manufacture, engineering, specification and use of microwave and radio frequency energy systems for non-communication applications, including industrial microwave and RF, solid state, food technology, plasma, chemical, material processing, and new emerging technologies.

**June 14-16, 2022**

The DeSoto Hotel  
Savannah, Georgia, USA



Presented by the

**INTERNATIONAL MICROWAVE POWER INSTITUTE**

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# Categories & Topics

IMPI 56 will bring together researchers, technologists, engineers and industry professionals from across the globe to share the latest research and developments in microwave and radio frequency power applications, including food technology, industrial applications, solid state, chemical, plasma, materials processing and emerging technologies. Topics include, but are not limited to:

## FUNDAMENTALS AND INDUSTRIAL APPLICATIONS

- Biomedical & Medical Applications
- Dielectric and Other Material Properties
- Industrial High Power Equipment and Process Control
- Microwave-Enhanced Chemistry
- Microwave-Assisted Plasma
- Modeling, CAD and Optimization
- New and Emerging Microwave Technologies
- Process Intensification with Microwaves and RF
- Solid State Microwave Technology
- Dielectric Sensing and Imaging Techniques
- Biomass and Waste Processing
- Metallurgy and Mineral Processing
- Microwave Material Synthesis
- Microwave Process Scale Up

## FOOD SCIENCE AND TECHNOLOGY

- Biological Applications
- Industrial RF & Microwave
- Processing of Food
- Microbiological Testing
- Microwavable Packaging
- Microwave Ovens: Design, Standards and Safety
- Product Validation
- Food & Agriculture
- Nutritions
- Trends in Microwave Cooking
- Food Safety Using Microwave Technology

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## WHO SHOULD ATTEND

The Symposium is an interactive and educational forum that brings together IMPI's diverse and interdisciplinary membership including:

- Microwave product developers and system manufacturers
- Industry professionals involved with microwave processing
- Academic researchers and scientists in any noncommunication microwave technology field
- Students in all fields associated with microwave energy

## SYMPOSIUM STRUCTURE

IMPI 56 will offer an optional Modeling Workshop on Tuesday, June 14th with the official program kicking off with a Welcome Reception that evening.

Plenary talks, special focus sessions, panel discussions, technical sessions with podium presentations and interactive poster sessions will take place Wednesday, June 15th and Thursday, June 16th.

Social events and coffee breaks, as well as poster and

exhibitor sessions (open throughout the Symposium) will provide attendees with many networking opportunities over the course of the three-day event.

Additionally, the Solid State Energy Section meeting will take place the morning after the Symposium (Friday, June 17th); all IMPI members are welcome to attend the Section Meeting.

The IMPI 56 Symposium is being organized as a hybrid event. Those who are unable to attend the meeting in person, due to travel restrictions, will have the option to present their paper virtually.

## SUMMARY SUBMISSION

The summary must be of sufficient length to allow the Technical Program Committee (TPC) to evaluate the paper; lack of information in the summary may lead to its rejection. Summaries should be a minimum of one page and a maximum of three pages. All submissions must be in \*.doc or \*.docx format and sent via e-mail to [info@impi.org](mailto:info@impi.org) along with the completed submission form on the last page of this document; the template of the summary can be found at <http://impi.org/events/symposium>.

E-mail notifications on acceptance/rejection and presentation mode (i.e., podium/poster) will be sent to the authors by February 14, 2022. The TPC may conditionally accept a summary subject to specific revisions/extension, or suggest improvements – in these cases the final summary must be submitted no later than March 14, 2022. Authors must note on their initial submission if they intend to submit an extended version to be considered for the Proceedings.

## TECHNICAL REVIEW AND SELECTION CRITERIA

All summaries must be in good, coherent English to allow the TPC to evaluate the technical merits of the submission. Presentations will be accepted for the Symposium Program on the basis of the following four criteria: novelty, completeness of technical description, clarity of presentation, and relevance to the Symposium topics. The TPC will organize the accepted presentations into podium and poster sessions according to topics, Symposium constraints and the main interests of the attendees.

## THE PROCEEDINGS

For inclusion in the Symposium Proceedings, the minimum length is one page and the maximum length of the extended summaries is 3 pages. Inclusion in the Proceedings is subject to at least one of the authors' registration and proof of the author's intent to attend the Symposium. The Proceedings will be published electronically and will be provided free to registered attendees.

## SUBSEQUENT JOURNAL PUBLICATION

Authors of accepted abstracts are encouraged to submit journal versions of their papers to the Journal of Microwave Power and Electromagnetic Energy. The submitted manuscript will undergo full review in accordance with JMPEE's standards. If published, JMPEE will designate those papers as having been presented at IMPI 56. Full JMPEE submission instructions may be found at <http://jmpee.org/instructions-submission-manuscripts/>

# 2022 CALL FOR PAPERS

## IMPORTANT DATES

Jan. 14, 2022: Submissions Due

Feb. 14, 2022: Acceptance Notices

Mar. 14, 2022: Final Papers Due

Jun. 14-16, 2022: Symposium



## STUDENT PARTICIPATION

IMPI 56 strongly encourages student participation. Students' papers will be evaluated for inclusion in the Symposium Program using the same standards and criteria as all contributed submissions.

The students are invited to participate in the Student Paper Competition. When submitting their summaries, the student should check the box on the submission form to indicate that they are interested to be a part of the competition. The best podium talk and the best poster will be chosen for two awards on the basis of quality of content and presentation. For a paper to be eligible, the key author must have been a full-time student during the time the work was done and must present the paper at the Symposium. Also, winners of the IMPI awards of earlier Symposia are not eligible for participation in the competition.

Students may apply for a Student Travel Scholarship (\$500) which may be used towards registration, travel or accommodations. The number of scholarships varies from year to year; additional details will be added to the IMPI website in the coming weeks.

*If you have any questions or are interested in sponsoring or exhibiting at IMPI 56, contact IMPI's Executive Director: [molly.poisant@impi.org](mailto:molly.poisant@impi.org) or +1 804 559 6667.*

## Technical Program Committee

### Chairs

Vadim Yakovlev, Worcester Polytechnic Institute, USA, Chair

Candice Ellison, Leidos/National Energy Technology Laboratory, USA, Vice-Chair

### Members

Eleanor Binner, University of Nottingham, UK

Graham Brodie, University of Melbourne, Australia

John F. Gerling, Gerling Consulting, Inc., USA

Satoshi Horikoshi, Sophia University, Japan

B. Reeja Jayan, Carnegie Mellon University, USA

Yang Jiao, Shanghai Ocean University, China

Birgitta Raaholt, Research Institute of Sweden, Sweden

Klaus Werner, pinkRF B.V., Netherlands

### Organizers of Special Sessions

Raymond Boxman, Tel Aviv University, Israel

Ulrich Erle, Nestle R&D, USA

Marzena Olszewska-Placha, QWED, Poland

Marilena Radoiu, Microwave Technologies Consulting, France



## Host City & Venue

Savannah, Georgia is a coastal city best known for its southern hospitality, lively riverfront and oak-lined streets. A top cultural destination in the Southeast, Savannah offers historical tours, unique museums and many live music and theatre venues. The city center is only 9 miles from Savannah/Hilton Head International Airport. For those looking to couple their business trip with a vacation, Savannah is only 20 minutes from Tybee Island, GA and 45 minute drive from Hilton Head Island, SC.

Overlooking Madison Square in the heart of Savannah's Historic District, The DeSoto is a treasured landmark blending the elegance, history, and charm of one of America's oldest cities with a generous dash of modern Southern hospitality. The hotel's prime location in the residential historic district, is just a short walk from the riverfronts touristy bustle. The DeSoto boasts 246 newly renovated guest rooms, a lovely pool and on site restaurants.

IMPI attendees may book their room directly by [clicking here](#) to receive the \$159 per night special room rate. Hotel reservations are also available by phone at 1-800-239-5118, Group Code: IMP.





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CALL FOR PAPERS 2022

Authors must complete and submit this Contact Information Form along with their Paper.

## CONTACT INFORMATION

Presenting Author Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Paper Title: \_\_\_\_\_

\_\_\_\_\_

Author(s): \_\_\_\_\_

\_\_\_\_\_

Affiliations: \_\_\_\_\_

\_\_\_\_\_

Will the paper be presented by a student participating in student competition? Yes  No

If your initial submission is a short version of your paper, do you plan to submit an extended summary (up to 3 pages) for publication in the Proceedings? Yes  No