



INTERNATIONAL MICROWAVE POWER INSTITUTE

IMPI's 57th Annual Microwave Power Symposium
27-29 June 2023, Denver, CO, USA

Special Session – Plasma Applications of Microwave and RF Power

Call for Papers: Abstract Deadline 20 January 2023

The International Microwave Power Institute (IMPI) is the foremost forum for interchanging scientific and technological information on all non-communications applications of radio frequency (RF) and microwave power, i.e. using electromagnetic fields with frequencies from the kHz to the THz range. IMPI brings together scientists, engineers, technologists, managers and entrepreneurs concerned with the generation and application of RF and microwave power, and with its use in various fields including processing food and agricultural products, medical treatment and facilitating chemical and materials processes.

IMPI's upcoming 57th symposium will include a special session on plasma applications of microwave and RF power. We call for papers on all aspects of these topics, including those concerning generation, impedance matching, applicator/resonator design, and the effect of the resultant electromagnetic field on plasmas. Topics include, but are not limited to:

- RF/microwave plasma generation and applications
- Electromagnetic field interaction with plasmas
- Impedance matching, coupling, and resonator design for plasma applications
- Characterization of microwave/RF plasmas
- Generation of high power RF/microwaves for plasma applications
- RF/microwave plasma for generating chemical species, and their applications including depollution and disinfection
- Generation of RF/microwave power using plasma
- Application of RF/microwave plasmas in materials science (e.g. thin film deposition, material processing)

Important Information:

- Abstract deadline: 20 Jan 2023
- Abstract length: 1-3 pages
- Download and use the abstract template at [IMPI-57-Word-Template.docx \(live.com\)](#)
- Use word *.doc or *.docx format
- Submit your abstracts to info@impi.org
- Fill out and send with your abstract the form at the end of this document
- Questions about the special plasma session?
Contact Zane Cohick (zane.cohick.1@us.af.mil)
- Full information about IMPI 57: [2023 Call for Papers IMPI57 Final.pdf](#)
- Other questions about IMPI 57? Interested in sponsoring or exhibiting at IMPI 57?
contact IMPI's Executive Director: molly.poisant@impi.org or +1 804 559 6667.

Special Session: Plasma and Accelerator Applications of Microwave and RF Power

Abstract Submission Form

CONTACT INFORMATION

Presenting Author's Name: _____

Organization: _____

Address: _____

Phone: _____ E-mail: _____

Paper Title:

Author(s):

Affiliation(s):

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

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