

THE WAVE



The newsletter publication of the International Microwave Power Institute

March 2022



IMPI 56 Symposium Program Released

The Schedule of Events for the 56th Annual Microwave Power Symposium was released on March 1st. IMPI 56 will be held June 14-16, 2022 at the DeSoto Hotel in picturesque Savannah, Georgia, USA. The Solid State RF Energy Section will hold their business meeting on June 17th at the same venue. Over 100 international attendees are expected to attend IMPI 56.

The IMPI 56 program is comprised of a Workshop on Computer Modeling, two (2) keynote addresses, eight (8) invited papers, forty (40) oral and poster presentations, a panel discussion and two (2) special presentations. Authors from fourteen (14) countries and ten (10) states will present their work on a variety of topics including: Mw Chemistry, RF/Mw Plasma, Materials, Solid-State, Industrial Applications, Food Processing, Biological Applications and more. IMPI 56 will feature an Exhibitor Showcase with thirteen (13) confirmed exhibitors, a Student Competition for best Oral and best Poster presentation, various networking opportunities including a Welcome Reception, luncheons, coffee breaks, continental breakfasts and a Group Dinner at a local Savannah restaurant. A spouse/guest program will also be offered.

Registration opened in December, and IMPI members are encouraged to take advantage of the early-bird member pricing by March 14th to save \$100 on their registration fee.

Under the leadership of Technical Program Committee Chairman, Dr. Vadim Yakovlev of Worcester Polytechnic Institute, and Vice Chair, Dr. Candice Ellison, of NETL/Leidos, the Call for Papers netted more submissions than the previous years the Symposium was held in-person. *Continued on Next Page*

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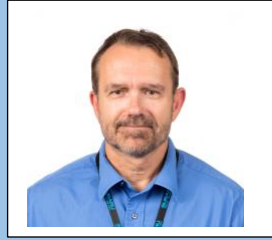
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Cover Photos: From left: SCAD's campus in Savannah, Georgia. Photo: Chia Chong / Courtesy of SCAD. Savannah skyline from river, Destination360.

IMPI 56 Symposium *Continued*

Dr. Robert Welton, Senior Scientist, Oak Ridge National Laboratory, will deliver a keynote address on the *“Overview of radio frequency and microwave driven plasma ion sources for particle accelerators.”*

Dr. Jan Boshoff, Co-founder and CEO, Nu:ionic Technologies Inc., will present a keynote on *“Multi-megawatt industrial microwave systems for the production of low carbon hydrogen and other process applications.”*



Hotel reservations at the DeSoto Hotel can be made at the special group rate of \$159USD plus taxes/fess, per night, and includes guestroom wifi. Please note, the current “rack rate” at the hotel for our dates is over \$300USD per night and rooms are available first-come, first-served until the group block is full so please make your reservation today!

Muegge GmbH will serve as the Platinum Sponsor, Microwave Techniques the Silver Sponsor, Odyssey Technical Solutions the Group Dinner Sponsor and Leanfa srL the VIP Reception Sponsor. Those interested in Exhibiton or Sponsorship, should contact molly.poisant@impi.org by March 15th.

The full program, registration pricing, health & safety protocols as well as the latest developments on the IMPI 56 Symposium are always available here.

Photos from left: Welton; Boshoff

We hope to see you in Savannah this June!

INTERIM PRESIDENT’S MESSAGE

I mentioned in the last (Winter 2021) issue of The Wave that IMPI’s Board of Governors completed a survey about the future of IMPI and considered ideas at its meeting in December. Amongst others, two themes that resonated strongly are to extend IMPI’s international presence and engagement more with academia, while specific underserved areas of industry were also identified. To help steer IMPI towards these goals the Board has formed a Strategic Planning Committee, composed of IMPI members Ray Boxman, Graham Brodie and John Mastela. This is an ideal international mix of high-profile professionals in academia and industry having a broad focus not only on areas IMPI is currently serving but those to which IMPI can become a valuable resource. All IMPI members should feel free to reach out to the committee and share your ideas and suggestions. I’m encouraged and look forward to hearing the committee’s recommendations for specific action.

Also on my radar screen is, of course, the 56th Annual Microwave Power Symposium scheduled for this coming June in Savannah, GA. Technical Program Chairs Vadim Yakovlev and Candice Ellison have crafted a marvelous program that surpasses any of IMPI’s events in recent memory. To top it off, I’m told that abstract submissions were close to an all-time high, no doubt due in part to two COVID-induced years of pent up demand for IMPI’s members to share the results of their work with our community. Even as the world is just beginning to recover from the Omicron surge, this year’s planning is full steam ahead for an in-person event. You will read more about IMPI 56 throughout this newsletter. Our venue at The DeSoto in Savannah’s downtown historic district has plenty of outdoor space adjacent to meeting rooms and the exhibit hall for safely gathering and long-overdue enjoyment of each other’s company. Be sure to bring your short sleeves!

Having spent the past six months as IMPI’s Interim President, I can truly appreciate how lucky our departed president Bob Schiffmann must have felt about working with our executive management team. Molly Poisant and Alicia Standridge are great at moving things along with diligence and good humor. I can’t imagine how IMPI could manage without them.

See you all in Savannah!

John Gerling
Interim President, Treasurer





IMPI SOLID STATE RF ENERGY SECTION

News: The Solid State RF Energy Section will focus, in 2022, on the Microwave Markup Language (MML) promotion as enabler to "push button get food" equipped solid state ovens. Watch out for a number of talks, presentations, workshops and press releases during the year.

In conjunction with IMPI 56, the Section will entertain a "lunch workshop" from 12:00pm-1:30pm on Tuesday, June 14th, which will include a talk "*MML, Solid State Oven Interoperability and The Meta Verse*" led by John F. Gerling, Steven Drucker and Klaus Werner. Additionally, there will be a session dedicated to SSRFE and a Solid State RF Energy Panel on Wednesday, June 15th. The Section will also meet the morning of Friday, June 17th, at the DeSoto Hotel.

Membership: is open to all IMPI members; there is no additional fee to join. Those interested in more details should contact alicia.standridge@impi.org

IMPI Annual Business Meeting Notice

The International Microwave Power Institute will hold their Annual Business Meeting at 5:00pm EST on Wednesday, June 15th at the DeSoto Hotel in Savannah, Georgia, USA.

The meeting is open to all current and prospective members of IMPI. The full Agenda will be published one month prior to the meeting. In addition to electing the Board of Governors, IMPI leadership will provide an update on membership, upcoming programming, JMPEE, the Solid State RF Energy Section and Strategic Planning initiatives. Please save the date.



Making the Most of Your IMPI Membership

Please take a moment now to save the NEW PASSWORD for the IMPI Members Only Page:

Link: <https://impi.org/members-only/>

Password: IMPI22!

The **Members Only** page is a great resource if you would like to:

- Access IMPI's Membership Directory (Updated Monthly)
- Watch a video recording of a Webinar you missed (from Fall 2019-Present Day)
- Read Proceedings from previous Symposia (IMPI 51-54 Now Available)
- Review an edition of the *Wave Newsletter* (from 2013-Present Day)

As a reminder, all updates to your individual membership (change of name, phone #, email, etc.) and all financial transactions (membership renewals, conference registrations, etc.) are processed through IMPI's CRM. Please take a moment to make sure your contact info is up to date [by clicking here](#) and entering your username and password. If you have any issues, please contact Alicia.standridge@impi.org

PLEASE DON'T SHARE THESE DETAILS WITH NON-MEMBERS!



JMPEE Volume 56, Issue 1

The Journal of Microwave Power and Electromagnetic Energy (JMPEE) Volume 56, Issue 1 will be released by the end of March 2022. The running order of papers will be as follows:

Editor's message: The solid-state applications era, by Juan Antonio Aguilar-Garib.

Determination of foreign-material content in uncleaned peanuts by microwave measurements and machine learning techniques, by Sakol Julrat and Samir Trabelsi.

Computational characterization of millimeter-wave heat exchangers with an AlN:Mo susceptor of multiple cylindrical elements, by Vadim V. Yakovlev, Catherine M. Hogan, Brad W. Hoff, and Ian M. Rittersdorf.

Microwave heat treatment on kyanite for mullite formation and the preparation of zirconia toughened mullite, by Satya Sai Srikant and Raghupatruni Bhima Rao.

Influence of blanching-freezing pre-treatment on moisture removal characteristics of microwave-dried potatoes, by Mohsen Beigi.

Investigation of sterilization by a microwave-generated low-temperature atmospheric pressure plasma jet, by Wenjie Fu, Chaoyang Zhang, Xiaotong Guan, Xiaoyun Li, and Yang Yan.

Under the leadership of Editor-in-Chief, Dr. Juan Aguilar, IMPI's peer-reviewed scientific journal, JMPEE had another great year with the Impact Factor rising to 1.325 in 2021!

As a reminder, online access to JMPEE is included in your IMPI membership dues. If you need assistance accessing JMPEE, please contact alicia.standridge@impi.org

IMPI Hosts Public Spring Webinar: Why RF/Mw Plasma?

On Thursday, February 17th, IMPI Fellow & Board Member, Prof. Raymond Boxman of Tel Aviv University & Clear Wave Ltd., instructed a one-hour webinar on RF/Mw Plasma. Open to the public, over fifty professionals from across the globe registered to attend. If you missed Ray's webinar, you can [watch the recording here](#). The Password is: Un^Yd^46



An additional Spring Webinar on RF/Mw Plasma is being planned for later this Spring. If there is a topic or speaker you would like IMPI to entertain for a future webinar, please [contact Dr. Sean McKeown](#) of Graphic Packaging International, who leads IMPI's Webinars efforts.

Photo Credit: Getty Images/ISTockPhoto

PARTNER EVENTS

The [Call for Papers for the 4th Annual Global Congress on Microwave Energy Applications \(4GCMEA\)](#) has been released. 4GCMEA will be held August 17-20, 2022 in Chengdu, Sichuan, China; it is hosted by Sichuan University and the China Association of Microwave Power Applications (CAMPA).



CALENDAR OF EVENTS

Stay up to date with IMPI Events by visiting our [Calendar of Events page](#). If you have an event you would like to add to the Calendar, please contact molly.poisant@impi.org

The International Microwave Power Institute

PO Box 1140

Mechanicsville, VA 23111

info@impi.org www.impi.org

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