

# THE WAVE



*The newsletter publication of the International Microwave Power Institute*

November 2018



## ***Keynote Speakers Announced for IMPI 53 Symposium***

Plans are well underway for the 53<sup>rd</sup> Annual Microwave Power Symposium (IMPI 53), to be held June 18-20, 2018 at Caesars Palace in Las Vegas, Nevada, USA. Two exceptional keynote speakers have recently confirmed their participation at IMPI 53.

Dr. Kenneth Foster, Professor of Bioengineering at the University of Pennsylvania, and a world-renowned expert in electromagnetic exposure, will share his perspective on **“What’s New in the Microwave Debate.”**

Mr. Michael Wolf, Founder of the Smart Kitchen Summit and Publisher of *The Spoon* will explore the rapidly changing technology in both consumer and industrial kitchens, through his talk, **“The Intelligent Kitchen: The Digital Cooking Revolution.”**

The **Call for Papers deadline** is now less than 2 months away. Abstract submissions are due to IMPI by January 19, 2019 and all IMPI members are encouraged to submit an abstract

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*Cover Photo: Fall Short Course attendees, October 27, 2018 at Campbell Soup World Headquarters*

## President's Message

There are two items of importance to IMPI that occurred in October. The first is the sad news of the death of IMPI's first President, John E. Gerling. John was a good friend and colleague, and a pioneer in the area of microwave heating applications. His accomplishments as a microwave engineer were many and he was happy to share his knowledge with people like me. His son, John F. Gerling, (IMPI's Treasurer), has provided us with an outline of his Dad's history.

The second is the good news, that Molly will write about elsewhere in the newsletter, regarding IMPI's excellent Fall Short Course at the Campbell Soup campus, October 24-26. I wish to express my thanks to Mark Watts and his colleagues, and the Campbell executives, for providing both the hospitality and hard work that made this a special event. I also want to call out Mark personally for his devotion and assistance in putting the program together, finding speakers, being sure that the program ran smoothly, etc.

Shortly after I arrived at Purdue in 1970 to begin my graduate studies, I learned that I had to choose between two mandatory courses for my first semester: "Library" or "Glassblowing". The old-timers, those who had been at Purdue for a while, advised me to take Library, at which, they said, I would spend 4 to 6 hours a week, while I could expect to spend nights and weekends at the Glassblowing laboratory. Obviously, I selected Library, and I'm happy that I did, because it taught me how to do in-depth literature searches. Each week we would get an assignment to come up with the procedure for making some organic compound, for example, and off I'd go to the Purdue library searching such things as the great encyclopedic, "Beilstein-Journal of Organic Chemistry" (now available to freely search on-line). We also learned to search many other literature sources, and this was before personal computers!

I was reminded of this because of an article that I read about how to gain free access to many journals and databases. Access to many journals and articles is denied to individuals unless paying a fee, unless you or your company is a subscriber to that particular journal. This is extremely frustrating for persons such as myself, and now I've come across some helpful guidance that you might enjoy as well. Here are a few suggestions:

- Google Scholar: an index of academic research drawn from many sources including academic journals. It is often not peer-reviewed, and is by no means a thorough search of a topic, but it's a good start.
- University libraries: many university libraries contain some of the journals in which we are most interested. A good way to start is if you are an alumnus of a particular university you might check their library – you may be able to receive free digital downloads of articles you need.
- Open Access: Many researchers today choose to publish an open access journals, and the scholarly indexes of such journals (Directory of Open Access Journals) may be found at <https://doaj.org/>
- [101 Free Online Journal and Research Databases for Academics](#); access to many journals, white papers & databases without having to subscribe to them.
- US Patent Office: <https://www.uspto.gov> Don't forget to search the patent literature – there is an encyclopedic amount of information available, that not only tells you what's new, but what went before; it also helps you understand the problems the inventor is trying to overcome. You want to avoid the situation that occurred to me in 1986, at a conference in Cambridge University (UK), at which a government researcher offered for license a microwave process I had patented 10 years earlier – obviously he and his group hadn't done a proper search.

## PRESIDENTS MESSAGE CONTINUED

Part of our obligation in science is not merely to present new information, but also to provide a history of what has gone before, and why our information, i.e. technology, is in fact new. This may require spending many hours in reviewing the literature, but ultimately, it's worth it, since it often opens the researcher's eyes and may even suggest new pathways to explore. I urge you all to consider this kind of in-depth literature searching as an obligation for you, and your fellow scientists.

By the time you read this, Thanksgiving will almost be upon us, so I wish you all a terrific holiday, and to enjoy the camaraderie of your family and friends.

Cheers,

*Bob Schiffmann, IMPI President*



## IMPI 53 Symposium Continued...

IMPI 53 will kick off with a Short Course focusing on Solid State Technology the morning of Tuesday, June 18<sup>th</sup>. In the coming weeks, IMPI will be releasing additional information about our Spotlight Session (afternoon of Tuesday, June 18<sup>th</sup>) and Invited Speakers.

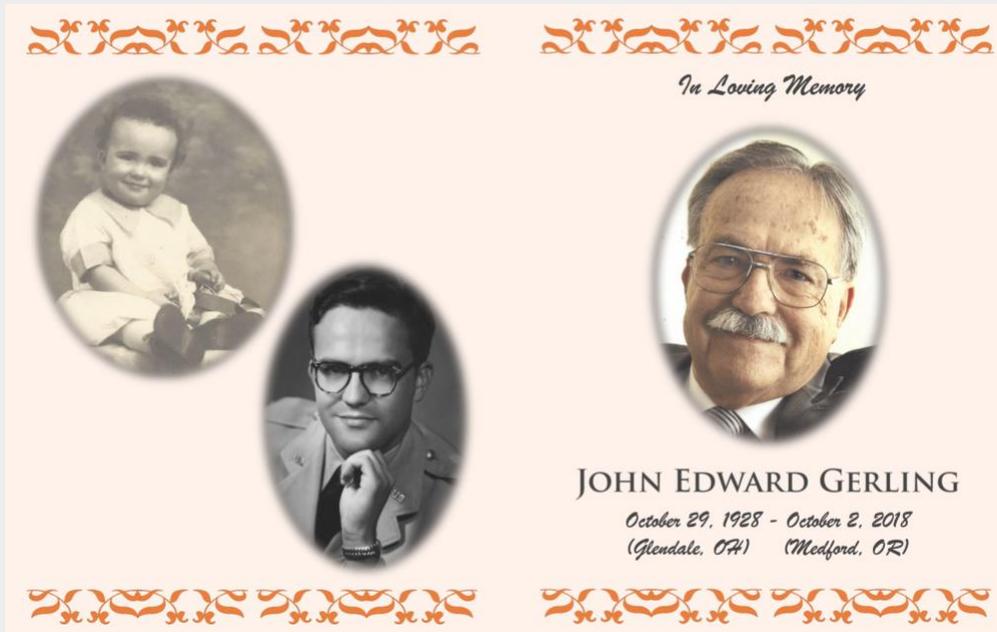
Registration will open on December 1, 2019. Similar to previous years, IMPI will offer student, professional and exhibitor registration via our Online Store. Hotel rooms at Caesars Palace may be booked now at the special group rate of \$139 per night here:

Shortly after the January 18<sup>th</sup> deadline for submissions, IMPI's Technical Program Committee, being led by Dr. Graham Brodie of the University of Melbourne and Mr. Roger Williams of Ampleon, will work with the Food Science and Technology Committee, chaired by Dr. Ulrich Erle of Nestle, to determine which papers will be selected for oral and/or poster presentation at IMPI 53. The full program will be released by March 1, 2019.

Last year saw the greatest number of student papers we have had in many years, with 14 students participating in the Student Competition. Students may also apply for a Student Scholarship to help offset the cost of attending the Symposium. Students interested in applying for the scholarships should do by February 1, 2019. Additional details will be available at [www.impi.org](http://www.impi.org)

At IMPI 53, our main ballroom, breakout room and exhibit hall will all be adjacent to one another. All companies interested in Sponsorship or Exhibition should secure their package as soon as possible. Contact [mollv.poisant@impi.org](mailto:mollv.poisant@impi.org) for more details.

## Remembering IMPI's First President, John E. Gerling



John and Ann Gerling, 2016

### Accomplishments:

- ◆ Bachelor of Electrical Engineering, Cornell University
- ◆ Lieutenant (junior grade), US Air Force
- ◆ Co-founder, International Microwave Power Institute
- ◆ Four loving children: Jeannie, John, Cooper and Carl
- ◆ Small Business Person of the Year, Modesto C of C
- ◆ President, RVM Residents Council
- ◆ RVM Residents Steering Committee, JG v. PRS
- ◆ Club Director, American Contract Bridge League
- ◆ Hole-in-One, Quail Point Golf Club

*If a man does not keep pace with his companions, perhaps it is because he hears a different drummer. Let him step to the music which he hears, however measured or far away.*

*- Henry David Thoreau*

These words by Thoreau resonated with John as he always kept them elegantly framed on his office wall. Indeed, John was truly a man of unique character, a quality he recognized in himself. He often went his own way, taking the path less traveled in pursuit of his passions, always confident that his chosen direction was best. An avid reader and collector of science fiction literature since boyhood, John's interest in science and technology was evident throughout his life. As an engineer he became one of the world's foremost authorities on microwave heating and was instrumental in development of the microwave oven as a household appliance. John's strong sense of principle drove his unflinching pursuit of justice for the residents of Rogue Valley Manor. With these qualities John touched everyone in his life, from his extensive family who loved him dearly to his many friends and peers who are grateful to have known him. Through them his memory will live in warmth and brightness.

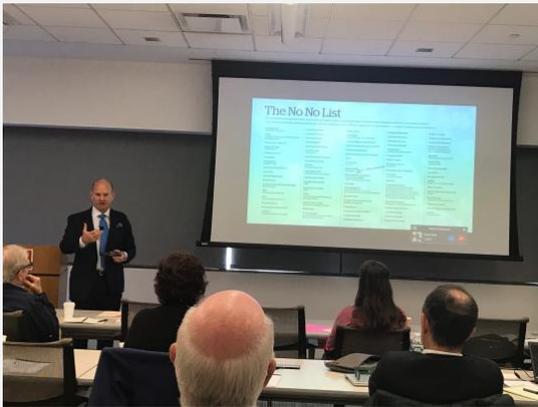


*The December edition of "The Wave" will feature an article on John's contributions to our industry. Those wishing to make a donation in John's name may do so to: Rogue Valley Manor Foundation, 1200 Mira Mar Avenue, Medford, OR 97504*

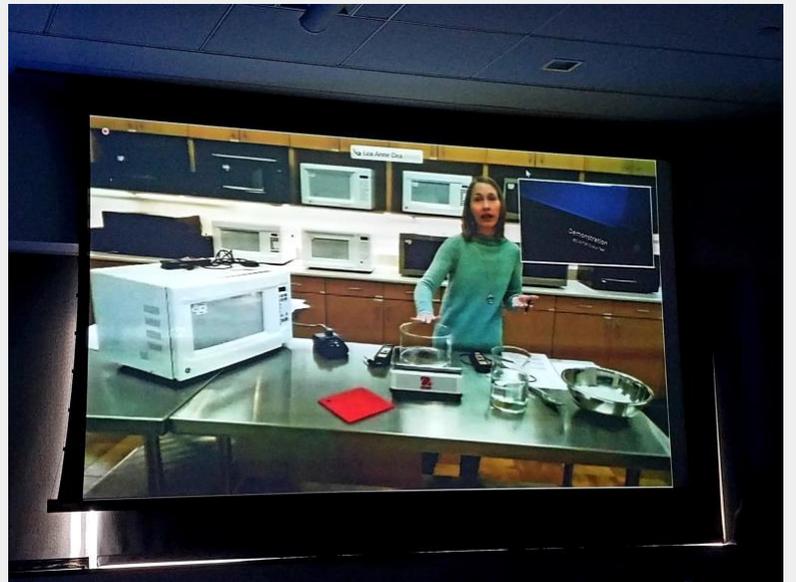
## Fall Short Course, “Fundamentals, Features and the Future of the Microwavable Food Marketplace”

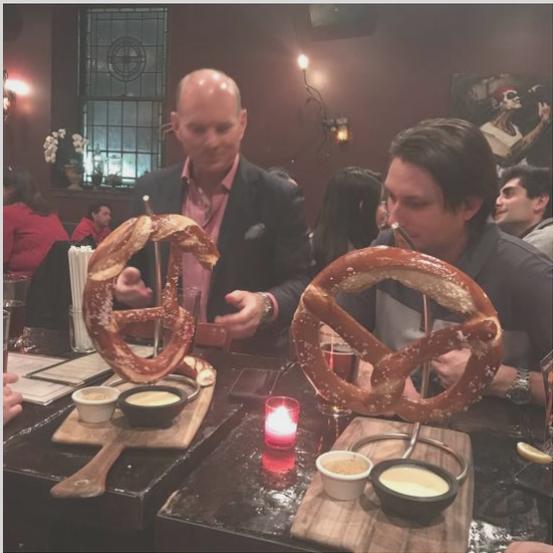
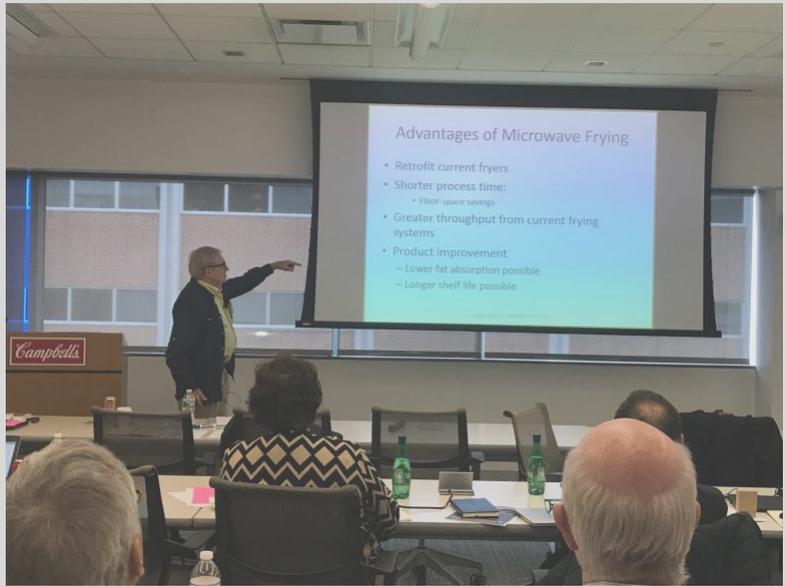
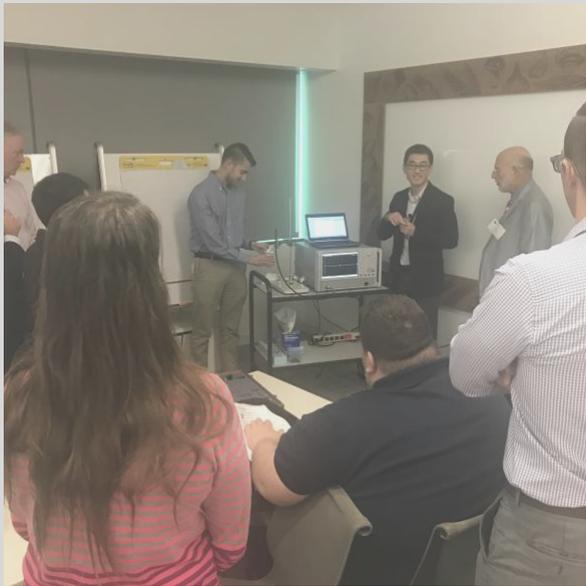
Over 40 professionals gathered at Campbell Soup World Headquarters in Camden, New Jersey, last month to take part in IMPI’s Fall Short Course. Keynote presenters included, Mr. James K. Pool of TurboChef and Ms. Erin Murray of Datassential.

Twenty-five participants took part in the Microwave 101 Pre-Short Course, taught by IMPI President, Bob Schiffmann. Over the 2 ½ days, attendees heard from 13 presenters on a range of topics including microwave packaging, testing dielectric properties, generating safe preparation instructions, advancements in solid state and much more. There were various networking opportunities including a Welcome Reception and Group Dinner. Special thanks to the Campbell Soup Company, and in particular, Mark Watts (IMPI Secretary) for hosting this event.



## Fall Short Course 2019 Photos







## IMPI Concludes 2-part Fall Webinar Series on Plasma Applications

Muegge GmbH's Dr. Klaus Baumgartner and Dr. Robert Muller served as the instructors for our Fall Short Course series held in October and November 2018. Dozens of IMPI members took part in the webinar series which examined: what is plasma, excitation frequencies, types of plasma sources, pros and cons of Mw vs. RF plasma, as well as scientific, medical and industrial applications.

The webinar series was free-of-charge for all IMPI members. If you missed the webinars and would like a link to view them, please email [admin@impi.org](mailto:admin@impi.org)

Special thanks to the team at Muegge for pulling together the presentation and to Conagra Brands for sponsoring the series.

If you have a topic you would like us to explore in 2019, please send your suggestions to [molly.poisant@impi.org](mailto:molly.poisant@impi.org) as soon as possible.

### CALENDAR OF EVENTS

#### **CALL FOR PAPERS DEADLINE IMPI 53: JANUARY 18, 2019**

**IMPI Spring Webinar Series:** February, March, April 2019 More details to be added as they become available [www.impi.org/events](http://www.impi.org/events)

**53<sup>RD</sup> Annual Microwave Power Symposium (IMPI 53)**, June 18-20, 2019 at Caesars Palace, Las Vegas, Nevada, USA [www.impi.org/symposium-short-course](http://www.impi.org/symposium-short-course)

**AMPERE Conference**, September 9-12, 2019 in Valencia, Spain. Call for Papers and event info at: [www.ampere2019.com](http://www.ampere2019.com)

**IMPI's Fall 2019 Short Course:** This just in, TurboChef, headquartered in Carrollton, Texas, USA has agreed to host next year's Fall Course. Exact dates are TBD but Short Course will take place in late October or early November. More details to be added to [www.impi.org](http://www.impi.org) in the coming months.

## NEWS FROM AROUND THE WEB

[Patented Camera Inside Microwave Will Let You Watch Food](#)

Cuba's "Sonic Attack" Could have been [Sounds Emitted by Listening Device](#)

[Amazon's \\$60 Small Microwave](#) Could be a Big Deal

### CONNECT WITH IMPI: LINKEDIN, FACEBOOK AND TWITTER

There is no need to wait for this newsletter to stay connected with IMPI. We post several times a week and you can follow us on:

Facebook: <https://www.facebook.com/InternationalMicrowavePowerInstitute/>

Twitter: <https://twitter.com/IntlMwPowerInst>

Linkedin: <https://www.linkedin.com/company/international-microwave-power-institute>

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