

# THE WAVE



*The newsletter publication of the International Microwave Power Institute*  
March/April 2017



## PROGRAM RELEASED FOR IMPI SYMPOSIUM 2017

[The full program for IMPI's 51<sup>st</sup> Annual Microwave Power Symposium \(IMPI 51\) is now available for download.](#) IMPI 51 will be held June 20-22, 2017 at the Sonesta Hotel Bayfront in Coconut Grove, Miami, Florida, USA. The program includes keynote addresses, oral and poster presentations, panel discussions, short courses and a wide variety of networking opportunities over the 3 days.

Dr. Mehul Doshi of the University of Miami, Miller School of Medicine will present a keynote on June 21<sup>st</sup> entitled, ***"Radiofrequency and Microwave Ablation in Cancer Care: Current State of the Art."***

Dr. Mike Davidson of the University of Tennessee will provide the keynote address on Thursday, June 22<sup>nd</sup>. His talk, ***"Microbial Control Measures for Microwavable Ready-to-Cook and Eat Foods"*** will kick off a full morning session dedicated to Food Safety.

Authors from Australia, China, France, India, Japan, Germany, Mexico, Switzerland, Taiwan, the UK and USA will cover a range of topics including: Materials Processing, Applicator Design, Food & Agriculture, Food Processing, Computer Modeling, Microwave Chemistry, Food Safety and Solid State Applications.

Similar to last year, IMPI 51 will kick off with a Spotlight Session the afternoon of Tuesday, June 20<sup>th</sup>. This year's topic is Solid State Applications and will be moderated by Dr. Klaus Werner of the RF Energy Alliance and feature 5 papers and a panel. The Welcome Reception, to be held on the gorgeous Grove View Terrace featured above, will take place immediately following the Spotlight Session.

## PRESIDENT'S MESSAGE

What do you do when you get negative data, i.e. data that is contrary to what you, your boss, your company, etc. expect? This issue became of importance to me recently when the results of tests that I ran were contrary to what was hoped for by an attorney for whom I was serving as an expert. Some of you may know that a great deal of my time is spent as an expert or expert witness in legal cases. Often this results in my doing extensive laboratory testing. Sometimes, I'm asked to review the research and testing done by another group and comment on the methodology and data. Many interesting things have come out of all of this.

In one case, I served as an expert for a law firm representing investors who felt that they had been misled by a contract research firm and as a result had lost millions of dollars

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## SPOUSE/GUEST PROGRAM

IMPI 51 will feature a Spouse/Guest Program. A group tour to Viscaya Museum and Gardens, Welcome Reception, Group Dinner at Jaguar Restaurant in Coconut Grove and a Farewell Lunch can be purchased A la Carte or as a package.



*Hotel rooms are available at the Sonesta Hotel Coconut Grove at a range of rates (\$119-\$169) depending on room/suite type. [Make your reservation directly with the hotel here.](#)*

## IMPI 51 EXHIBITION SPACE AND SPONSORSHIP OPPORTUNITIES SELLING OUT QUICKLY

A limited number of sponsorships and exhibit spaces are still available for IMPI 51, but these are selling out very quickly this year. Visit <http://impi.org/symposium-short-courses/> for more details and pricing. Contact [molly.poisant@impi.org](mailto:molly.poisant@impi.org) if you are interested.

## **PRESIDENT MESSAGE** *Continued from Page 1*

investing in what was purported to be a new microwave process. During several months of reviewing documents, including laboratory reports, it became obvious that the data that was shown to investors had been cherry-picked so only those results that seem to show a positive effect of this new process were made available to the investors, while the data that showed that there was no such effect was hidden. This all came out in the trial and resulted in a decision favorable to the investors. The lesson here is: don't cherry-pick data – report everything!

In several cases, involving injuries to plaintiffs resulting from microwaving products, I was an expert for the attorneys representing the defendants – the manufacturers of the products. In each case, I found the products could have caused the alleged injuries and reported my findings, through the attorneys, to the manufacturers, who, settled their cases with the plaintiffs.

For many years, my laboratory and I provided product-testing services for many companies, involving food and other products to be prepared in microwave ovens, as well as accessories and packaging. In many cases, we uncovered product problems unknown to the manufacturers. In one case, the product problem was so severe that I urged the manufacturer to immediately stop shipment of this new product because of its potential to injure children. That was the only time I ever recommended that a client immediately withdraw a product; in all other cases I reported our findings in detail. The reader now probably will ask “why didn't the manufacturer find that problem, and why was it necessary for an outside laboratory to discover it”? I believe the answer is that in-house testing of products tends to be custodial, i.e. the new products group has created a product through extensive formulation, selection of packaging etc. to find the best form of the product and really doesn't want their work fail. On the other hand, an outside testing laboratory has no vested interest in the product but rather is only interested in finding how well the product performs and whether there are any problems. In a sense, we couldn't care less if the product exceeds or fails. Therefore, I always recommended to clients, and others, that they go to an unbiased outside laboratory for evaluation of their products.

All this brings me around to the question of how, as a scientist, do you deal with your findings even if they are contrary to what is hoping for? The answer, I feel, is that you have to report everything, both good and bad. You're likely to be questioned as to how you obtained these results, how confident you are of them, and what is your assessment of your findings. You need to be straightforward about this because that is the nature of science, i.e. we deal in facts as we best uncover them and understand them. For us, there are no such things as "alternative facts":

“This is the essence of the scientific method at its best. There may be biases in our perceptions, and we may want to find data that fits our preconceptions about the world, but if science is done properly, we get a real answer, often one we did not expect. That's the true test of when science is giving us a reality check: when it tells us something we do not want to hear, but is inescapable if one follows the scientific method and analyzes the data honestly.” (Dr. Donald R, Prothero, Professor of Geology at Occidental College in Los Angeles)

So, where will you be the week of June 19th? I hope with me in Miami at IMPI 51! Rick Gonzalez and Graham Brodie have put together an excellent program, and we'll have at least 10 exhibitors. In addition, Molly has put together a terrific social program. It's a great opportunity to hear some new science and technology, network, chat with old friends and make new ones, and just enjoy yourself. Hope to see you there.

Best! Bob

# Journal of Microwave Power and Electromagnetic Energy

Volume 51, Issue 1 of JMPEE is on schedule to be released by March 31, 2017. The composition of this issue is as follows. Complimentary online access to JMPEE is one of your member benefits. If you require your credentials be resent, please contact [molly.poisant@impi.org](mailto:molly.poisant@impi.org)

TITLE	AUTHOR(S)
Editor's Message: Beaming Energy from the Space	Juan Antonio Aguilar-Garib
Dielectric Properties of Antarctic Krill ( <i>Euphausia Superba</i> ) and White Shrimp ( <i>Penaeus Vannamei</i> ) During Microwave Thawing and Heating	Yinzhe Jin, Linxin Yang, and Weiqiang Qiu
2.45 GHz Microwave Plasma Sources Using Solid-State Microwave Generators. Collisional-Type Plasma Source	Louis Latrasse, Marilena Radoiu, Juslan Lo, and Philippe Guillot
Temperature Field of Asphalt Mixture Based on Microwave Heating	Tongsheng Sun and Lujun Chen
Investigation of Electromagnetic Shielding and Absorbing Capabilities of Cementitious Composites with Waste Metallic Chips	Mehmet Cakir, Niyazi Ugur Kockal, Sukru Ozen, Atalay Kocakusak, and Selcuk Helhel
Mixed Ionic-Polaronic Conduction in Copper Sodium Phosphate Glasses Containing Aluminum Oxide	Ibrahim Mohamed Ali, Yahia Elbashar, Badr Ali, Haroun Elshaikh, Ahmed Mostafa

## News from Around the Web

IMPI Board Member, Dr. Graham Brodie, is featured in the following article: [Ever Considered Microwaving Your Weeds?](#)

[Radar Measurement Improved](#): Higher transmission frequency allows for more accurate and successful powder storage and level assessment

Microwave helmet shows great potential [to detect intracranial bleeding in traumatic brain injuries](#)

You've Been [Microwaving Leftover Wrong!](#)

[Microwave Trays Market](#) - Global Industry Analysis, Size, Share, Growth, Trend and Forecast For 2016 - 2024

[Microwave Oven Market](#) by Applications, Economic Effects, Industry Chain Structure Forecast 2022

## CALENDAR OF EVENTS

### **IMPI Spring Webinar, Part I: Introduction to Dielectric Properties for Microwave Processing of Materials**

*Presenter: Shawn Allen, Allen Materials*

Thursday, March 30 from 11am-12pm EDT. Free for IMPI Members! [Register online HERE](#)

### **Webinar: “Danger! Do Not Microwave This Product! Non-Food Products Can and Do Injure People!”**

*Presenter: Bob Schiffmann for the TASA Group* on April 11, 2017 @ 2 PM (EDST) IMPI will send a blast message on how to access the webinar, Free of Charge.

### **IMPI Spring Webinar Series on Dielectric Properties, Part II: Material Characterization from DC to mm-wave and THz**

*Presenter: Say Phommakesone, Keysight*

April 27<sup>th</sup> at 11am EDT (Free for Members) More details at: <http://impi.org/events/>

Part III will be held in May 2017 (More details to follow)

**The 51st Annual Microwave Power Symposium (IMPI 51)**, June 20-22, 2017 at the Sonesta Hotel Coconut Grove, Miami, Florida, USA. Additional details can be found at <http://www.impi.org/>

**AMPERE**, September 18-21, Delft, The Netherlands. More details at <http://www.ampere2017.nl/>

**IMPI Fall Short Course**, October 2017

*Do you have an upcoming event you would like added to our Calendar of Events? Please email to [molly.poisant@impi.org](mailto:molly.poisant@impi.org)*



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