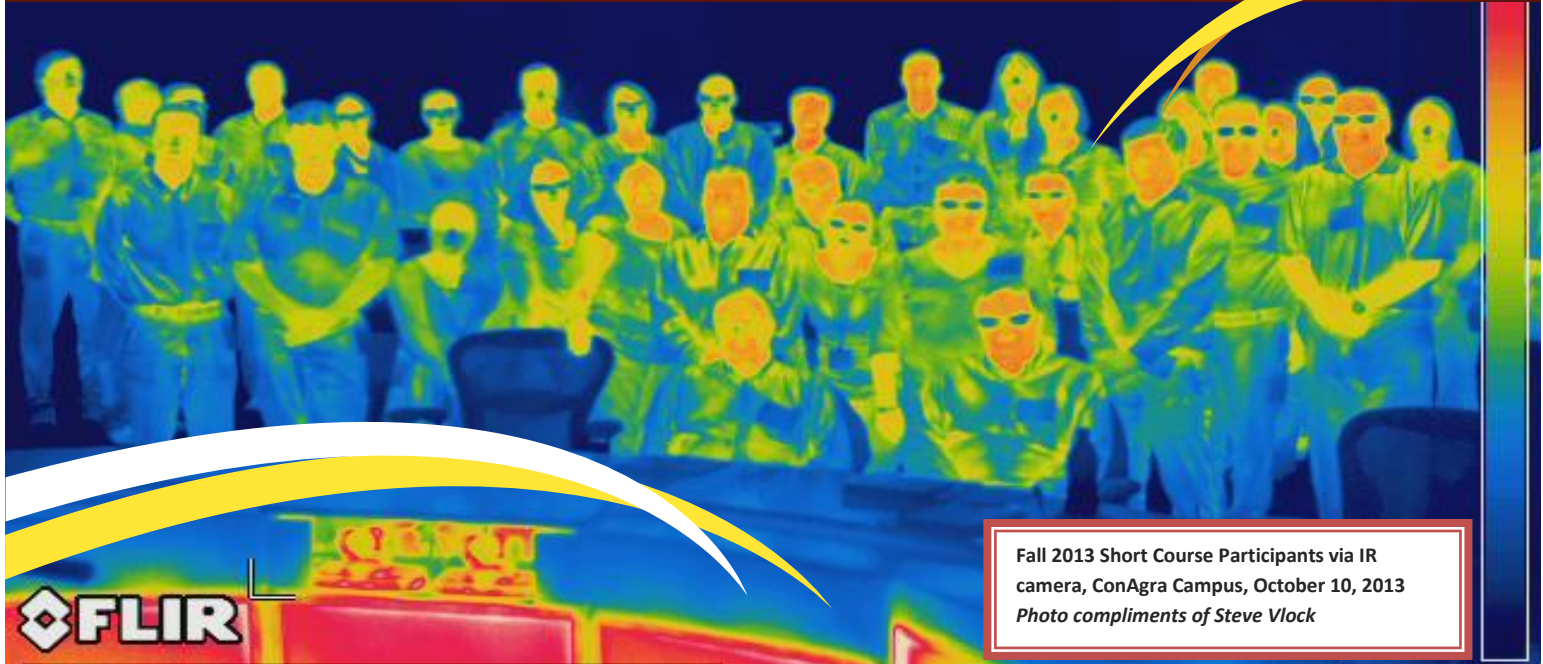


THE WAVE



The newsletter publication of the International Microwave Power Institute

November/December 2013



Fall 2013 Short Course Participants via IR camera, ConAgra Campus, October 10, 2013
Photo compliments of Steve Vlock

2013 Executive Director's Report

by Molly Poisant, Executive Director, IMPI

As 2013 comes to a close, I would like to thank all of you for another great year. In addition to putting on a successful Symposium and Fall Short Course, IMPI released our 9th Consumer Survey report and saw JMPEE subscriptions rise for the first time in the past 4 years. For the first time since 2007, IMPI conducted a "mini-audit" through our accounting firm. Financially, the Institute had a stellar year; we were able to reach our goal of a half-year of operating expenses in the bank while significantly paying down our outstanding debts.

With IMPI now able to invest more in the growth of the organization, the Board of Governors has identified several opportunities to better serve our membership in 2014:

- 1) In January, IMPI will launch our newly designed IMPI.org and JMPEE.org websites. In mid-December 2013, all IMPI members will receive an email with new log in instructions to access your complimentary online subscription to JMPEE.org. The new IMPI website will include an increased social media presence, easy access to IMPI's blog, archived copies of The Wave, a job postings section and the latest news and information for the microwave community.
- 2) Beginning in the Spring, IMPI will begin offering members complimentary webinars on a wide range of topics. In the coming months, we will be

Letter from the President

by Bob Schiffmann

Here it is the beginning of November and we are only a few weeks away from the holiday season and the New Year. It was a beautiful summer in the Northeast and the fall colors at my home in the Catskill Mountains were extraordinary. Now I am back in New York City where the leaves are just beginning to turn color.

September and October were very busy months for IMPI. In September several IMPI members and I attended the biannual AMPERE conference at the University of Nottingham (UK), chaired by Dr. Sam Kingman, with Dr. Georgios Dimitrakis serving as the Technical Program chair. 147 people, primarily from academia and many with interesting presentations attended the conference. The University of Nottingham has a large group devoted to industrial microwave and RF heating, and it was interesting to hear about some of their research.

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Meet the Member: Fermin Resurreccion



Fermin Resurreccion is no stranger to IMPI. In 2011, while studying at Washington State University, Resurreccion presented a paper, "The effect of pre-cooking on the dielectric property of salmon fillet at 915MHz" at IMPI 45. He went on to win first place in the student competition for his work.

Today, Resurreccion is working as a Microwave Packaging Scientist for Graphics Packaging International (GPI) and is based in Golden, Colorado. His current work focuses on: (1) upgrading GPI's microwave laboratory in terms of developing instrumentation and technical protocol, (2) incorporating computer simulation capability in developing microwavable packaging, (3) developing the next generation active microwave packaging through enhancement of the design of shielding and susceptor in packaging, and (4) providing technical support to GPI's customer.

Resurreccion came to know GPI through IMPI Fellow, Dr. Juming Tang's, Microwave Consortium. He credits his involvement as a student member of IMPI in helping him to expand his connections in the microwave field.

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Letter from Executive Director *cont.*

reaching out to the membership to ask for topics of interest to you and your respective organizations. A webinar schedule and log in information will be forthcoming.

3) IMPI will continue to look for ways to grow our membership and increase our relevance in the microwave community. It is our hope that the newly designed website, with the integrated blog, will increase our presence on the Web. We are also exploring bringing on a marketing/media consultant to assist with our ongoing efforts.

4) IMPI will continue to provide quality programs throughout the year. Plans are well underway for the 48th Annual Microwave Power Symposium (IMPI 48) to be held June 18-20, 2014 in New Orleans, LA, USA (just prior to the annual IFT conference). We will also host a Fall Short Course in October 2014 (location TBD).

5) We will strive to provide excellent service and benefits to the IMPI membership. If you have any suggestions as to how we can better serve your needs, please contact me at any time.

In closing, I would like to thank you for the opportunity to work with you all. I truly enjoy serving as your Executive Director and am looking forward to another great year ahead.

Kind regards,

Molly Poisant, Executive Director, IMPI
molly.poisant@impi.org



Top left: Bob Schiffmann addresses the Fall Short Course participants; Top right: Keynote presenter, Dr. David Acheson of The Acheson Group; Bottom: Participants enjoy the networking reception at Upstream Brewing Company in Omaha's Old Market.



IMPI 48 Call for Papers Deadline: January 15, 2014



The 48th Annual Microwave Power Symposium will be held June 18-20, 2014 at the Doubletree Hotel in New Orleans, Louisiana, USA. The [Call for Papers](#) is now available for download. We need you! We are seeking submissions in the following categories:

FUNDAMENTALS AND INDUSTRIAL APPLICATIONS

- Microwaves and Materials – Dielectrics & Metals
- Modeling, CAD and Optimization
- Industrial High Power Equipment and Process Control
- New (Non-Communication) Microwave Technologies
- Microwave Enhanced Chemistry
- Microwave Plasma
- Materials Properties

FOOD SCIENCE AND TECHNOLOGY

- Product development and testing
- Product validation
- Microwavable packaging
- Microwave ovens: design, standards, safety
- Microbiological testing
- Industrial RF & microwave processing of food
- Biological applications

We are pleased to announce the Technical Program Committee for IMPI 48:

Chairman: Ray Boxman, Tel Aviv University, Israel
Members: Jon Binner, Loughborough University, U.K.
Georgios Dimitrakis, University of Nottingham, U.K.
Ulrich Erle, Nestle R & D, USA
John F. Gerling, GAE, Inc., USA
Marilena Radoiu, SAIREM, France
Bob Schiffmann, R.F. Schiffmann Associates, Inc., USA
Becky Schulz, Corning Incorporated, USA
Paolo Veronesi, University of Modena and Reggio Emilia, Italy
Vadim V. Yakovlev, Worcester Polytechnic Institute, USA

Please plan to attend and share the details of IMPI 48 with your colleagues. Additional details on IMPI 48 can be viewed [here](#).

Resurreccion Continued

“As a student, I would say the major benefit of being an IMPI member are; (1) getting updated on research activities related to microwave heating, (2) during the annual symposium, I got the chance to actually meet in person some of the big “names” in microwave both in the academia and industry, (3) IMPI allows people to network and in my case expanded my contacts/connections which greatly helped when I was seeking employment.”

When asked about advice for current student members of IMPI, Resurreccion had this to offer, “Setting aside the intellectual and technical skills you’ve learned in school, you still have to be in the right place and in the right time when opportunity knocks. The other 50% is all about connections, and in the field of microwave heating, IMPI is the best organization to build up those connections.”

In his free time, Resurreccion enjoys flying Radio Control (RC) planes and helicopters with his son.

Calendar of Events

48th Annual Microwave Power Symposium (IMPI 48), June 18-20, 2014 at the Doubletree Hotel, Downtown New Orleans, Louisiana, USA. www.impi.org

IFT 14, Annual Food Meeting and Expo, June 21-24, 2014 at the New Orleans Morial Convention Center, New Orleans, Louisiana, USA www.ift.org

Letter from the President continued

In October IMPI held its annual Fall Short Course at the ConAgra campus in Omaha. The meeting was held in a state-of-the-art auditorium, and we owe a vote of thanks to ConAgra for hosting our meeting, and to Rick González for his work on putting the program together as well as making the meeting arrangements at ConAgra. Titled “Trends and Microwaves”, the 49 attendees heard an outstanding group of presenters covering the areas of microwave safety, product validation, consumer trends, and ingredients and packaging technology for microwavable product development. The evaluation forms we received from the participants indicated their satisfaction with the meeting.

Now, our focus is largely directed at IMPI 48, to be held in New Orleans on June 18-20. The 1st Call for Papers has gone out and you can view it online at the IMPI website: IMPI.org. With a deadline of January 15 for the submission of papers, our excellent Technical Program Committee will be both soliciting and reviewing papers for presentation at the Symposium.

I should note that we have hired a website developer who will be modernizing the site and optimizing our search engine visibility. Also, we have made significant improvements to the JMPEE website that will allow members-only access to full papers in the publication; you will receive a message from Molly when this change is in effect.

While this is my final message of the year, there is still a lot more going on between now and January. Molly, Neil Suffa (IMPI's accountant) and I will be meeting in early December to prepare the budget for 2014; we are in the midst of considering other activities for the 1st half of 2014; we are also reviewing and updating IMPI's mission statement; and more. If you would like to be part of any of these or other IMPI activities including this newsletter, our educational programs, our other publications, I welcome your participation and urge you to contact Molly: Molly.Poisant@impi.org.

I wish you all a wonderful Holiday Season and a very Happy New Year.

Bob

INTERACTIVE IMPI *Direct links to Microwave News on the Web*

Microwaves [fight resistance](#) in herbicide resistant weeds

Leaky microwaves can [power your kitchen gadgets](#)

Microwaves used [to power cell phones](#) and other devices

Team developing [microwave biodiesel process](#)

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