

# THE WAVE



*The newsletter publication of the International Microwave Power Institute*  
SPECIAL SYMPOSIUM EDITION (July/August 2017)



## IMPI 51 HIGHLIGHTS

Seventy-six attendees from 15 countries converged on the Sonesta Hotel in Coconut Grove, Miami, Florida to take part in IMPI's 51<sup>st</sup> Annual Microwave Power Symposium, June 20-22, 2017.

Following a heavily attended short course on Industrial and RF and Mw Applications, the conference kicked off with a Solid-State Spotlight Session and lively panel discussion. Attendees ended the first day with a Welcome Reception on the roof of hotel, overlooking the Biscayne Bay. There was a live cooking demonstration by Jennipher Marshall Jenkinson who leads the MTA-UK who prepared 4 meals using only her microwave oven.

Wednesday morning began with a keynote address by Dr. Mehul Doshi of the University of Miami, Miller School of Medicine. Concurrent technical sessions, a networking luncheon, poster and exhibitor sessions and a group dinner at a local Cuban-inspired restaurant rounded out the second day.

Thursday began with the highly anticipated Food Safety session, which included a keynote by Dr. Michael Davidson of the University of Tennessee. A Microwave Standards panel discussion followed.

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## IMPI SETS SIGHTS ON FALL SHORT COURSE IN OMAHA

Each October, dozens of food company professionals, scientists and engineers gather to learn about the latest trends in consumer behavior, packaging, food safety, research & development and best practices. This year's Fall Short Course will take place October 24-26, 2017 on the Conagra campus in Omaha, Nebraska, USA.

David Luttenberger, Global Packaging Director of Mintel will provide the keynote. Other confirmed speakers include: Dr. Susan Hammons of the USDA's Food Safety Inspection Service; Dr. Jeyam Subbiah of the University of Nebraska, Lincoln, Mr. David Engel, Director of Business Development and Innovation for Bemis Packaging and Mr. Bob Schiffmann of R.F. Schiffmann Associates Inc.

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## **IMPI SYMPOSIUM Continued**

During the closing ceremony, Hermine Tertrais of France won Best Oral Presentation by a Student and Punit Raj Ravi of India received the award for Best Poster Presentation by a Student. Technical Program Co-Chairman Dr. Graham Brodie presented both Tertrais and Ravi a certificate, \$100 cash prize and a 1-year student membership to IMPI.

The closing ceremony of IMPI 51 also included the announcement about IMPI 52. IMPI 52 will take place at the Hilton in Long Beach, California, USA from June 27-29, 2018. Dr. Graham Brodie of the University of Melbourne and Dr. Ric Gonzalez of Conagra Brands have agreed to stay on board to serve as the Technical Program Co-chairmen. Dr. Ulrich Erle has accepted the invitation to serve as the Food Science & Technology Committee Chairman.

The Call for Papers for IMPI 52 will be released by September 1st. More details will follow in subsequent newsletters and at [www.impi.org](http://www.impi.org)

## **Fall Short Course Continued**

The Fall Short Course will kick off with an optional pre-short course: Mw 101: The Fundamentals of Microwave Heating from 12:30pm-5pm on Tuesday, October 24<sup>th</sup>. A Welcome Reception at Upsteam Brewing Company in the downtown Market Square will be held that evening. The Short Course will run the full day, Wednesday, October 25<sup>th</sup> and Thursday, October 26<sup>th</sup>, concluding by 3pm. A group dinner will be held Wednesday evening.

The cost for the Fall Short Course will be \$595 for members and \$695 for non-members and will include all sessions, conference materials, the Welcome Reception on Tuesday evening, continental breakfasts, coffee breaks and lunches on Wednesday and Thursday and online access to PDFs of all presentations.

The full program will be released on [www.impi.org](http://www.impi.org) within the next 2 weeks.

# PHOTOS FROM IMPI's 51<sup>st</sup> ANNUAL MICROWAVE POWER SYMPOSIUM, JUNE 20-22, 2017 IN MIAMI









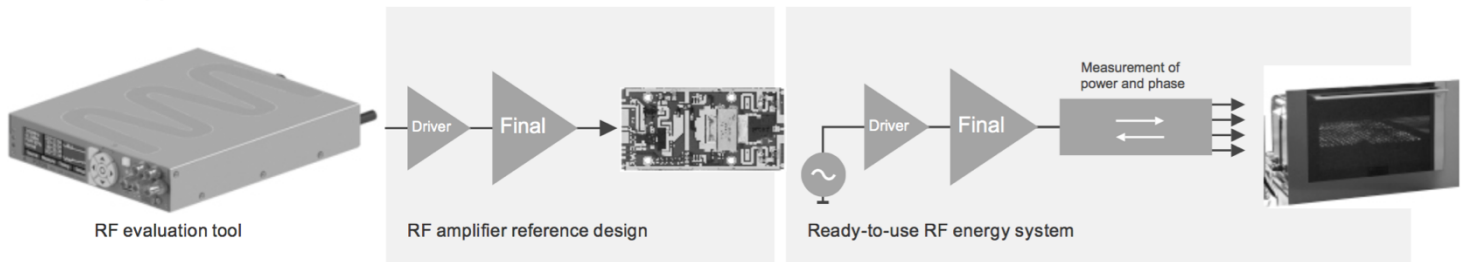
# AMPLEON

Evaluation tools for RF energy

## Plug-and-play evaluation tools for RF energy

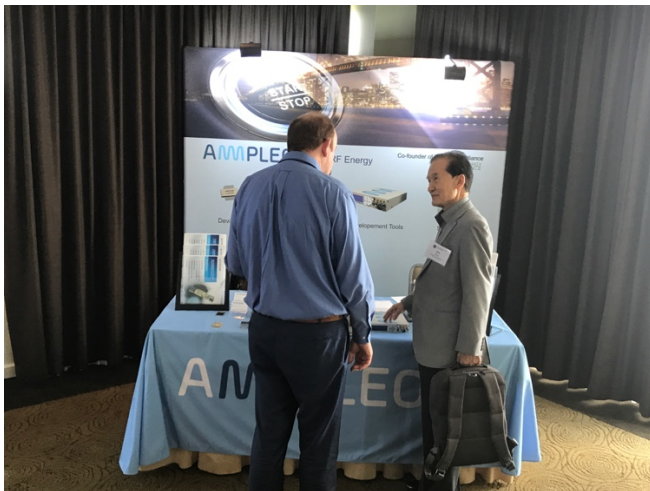


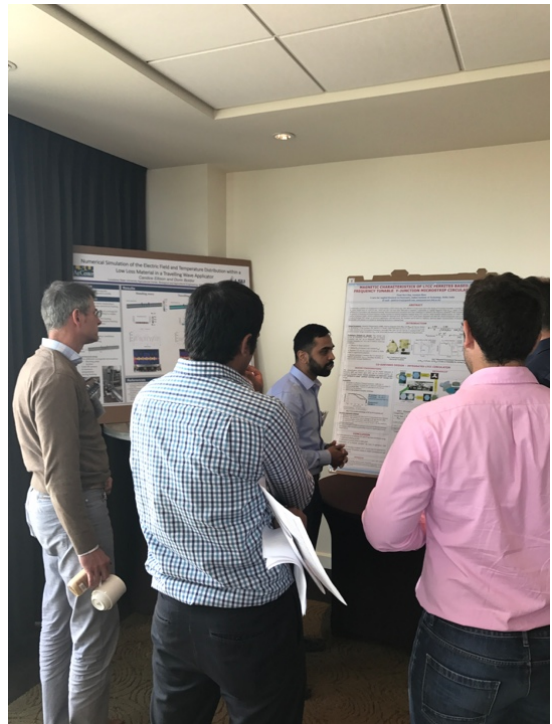
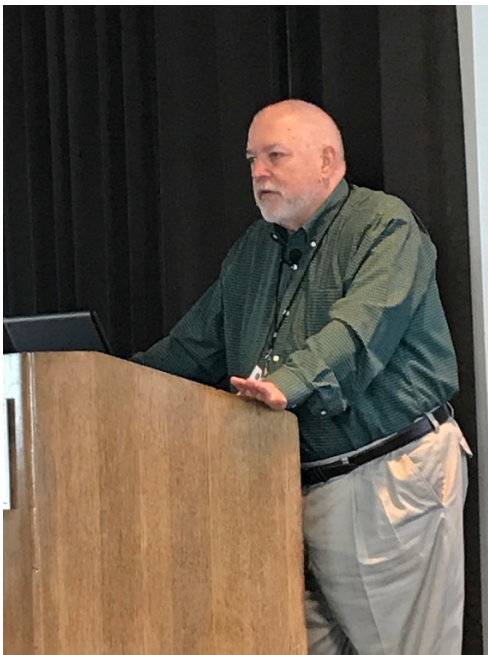
A cleaner, more efficient and effective power source - that is the promise of RF energy. From solid-state cooking and RF sparkplugs to RF plasma lighting and medical therapy, the possibilities are boundless. Ampleon's plug-and-play evaluation tools enable our customers to explore the possibilities of solid-state RF energy, develop their applications and shorten time to market.



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### **Nicolas Meisel (1925 – 2017), IMPI’s European Vice President**

Longtime IMPI Member and its Executive Vice President for Europe during the 1970s and early 80s, Nicolas Meisel passed away on April 30, 2017 after a difficult bout with cancer. Nicolas was an early innovator in the application of microwaves to industrial processing, serving as President of his company IMI (International Microwave Industries) producing numerous products used in industry including:

- Vacuum dryers, the GIGAVAC that was sold to Pernod Ricard, Pampryl, Coca-Cola, Hoechst, and to Russia, among many others.
- Defrosting/tempering tunnels, the GIGATRON, sold to many companies in France, Europe, South Africa, Scandanavia and Japan for use in fish and meat thawing (tempering).
- Laboratory ovens, the LABOTRON, sold to the food, chemical and pharmaceutical industries, mainly in France and Europe.

Nicolas was a leader and participant in many IMPI activities. As an active member of the “Club Micro-Ondes d’EDF”, Nicolas was largely responsible for IMPI’s 1979 conference in Monte Carlo.

Always elegantly dressed, and the owner of one of Europe’s loveliest homes, “La Ferme du Mesnil” in Epône France, and a dear personal friend, his presence was always a delight at nearly all IMPI symposia until closing his company in 1989.

Nicolas is survived by his 3 children, Philippe, Marion & Anne, his 6 grandchildren, and his long-time companion Félicitas Caroline Küstner. He will be greatly missed.

Submitted by Bob Schiffmann

## **THE JOURNAL OF MICROWAVE POWER & ELECTROMAGNETIC ENERGY (JMPEE)**

Volume 51, Issue 2 of the Journal of Microwave Power and Electromagnetic Energy is now available for viewing. All IMPI members receive complimentary access to JMPEE. If you require assistance accessing your subscription please email: [admin@impi.org](mailto:admin@impi.org)

Editor's Message: **"Reliability of Internet Sources"** by Juan Aguilar

**"Microwave irradiation consequences on chemical reagent consumption in ilmenite flotation"** by Omid Salmani Nuri, Mehdi Irannajad, and Akbar Mehdilo

**"Strategy on Efficiently Drying Porous Media with RF Power in a Coaxial Cell"** by Li Wu, Junwu Tao, Jean-Louis Lacout, Tan-Hoa Vuong, Kama Hunag, and Huacheng Zhu

**"Extraction of Silymarin from Milk Thistle (*Silybum marianum*) Seeds - A Comparison of Conventional and Microwave-assisted Extraction Methods"** by Ibrahim Saleh, Mircea Vinatoru, Timothy Mason, Nahla Abdel-Azim, Khaled Shams, Elsayed Aboutabl, and Faiza Hammouda

**"Broad Band MA Based on Three Type Resonator Having resistor For Microwave Energy Harvesting"** by Oğuzhan Akgol, Mehmet Bağmancı, Muharrem Karaaslan, and Emin Unal

**"Simulation modelling and calculation of dielectric permittivity of Opuntia at 1.7 to 2.6 GHz"** by Ediz Delihasanlar and Ahmet Hayrettin Yuzer

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