**Registration is now open for IMPI's Fall Webinar Series! Join us for two 1-hour webinars:**

**Microwave Component Configurations for Industrial Heating Systems**
*September 29, 2015 from 11am-12pm EST.*
Instructor: John F. Gerling, Gerling Applied Engineering

This webinar covers the basic configurations of microwave generators and waveguide components commonly used in industrial processing systems. The course content is primarily for process developers, system engineers and designers, maintenance technicians and plant managers who wish to gain more insight into the various microwave components and the purpose and importance of each for stable process performance and reliable system operation. Topics covered include:

Microwave generators (magnetron vs. solid state, switch mode vs. linear vs. doubler)
Applicators and cavities (multimode, single mode, batch, continuous)
Waveguide components (isolators, tuners, power measurement)
Impedance matching (stub/slug tuners, irises, manual vs. automatic)
Power delivery configurations (cost vs. performance)

**Magnetrons for Microwave Power Applications**
*November 17, 2015 from 11am-12pm EST.*
Instructor: John M. Osepchuk, Full Spectrum Consulting

Magnetrons are the accepted norm for microwave power applications (e.g. heating); the microwave oven, domestic and commercial: also for industrial applications at 915 MHz as well as industrial and specialized commercial applications at 2.45 GHz at power levels exceeding 2 kW. This webinar presents an overall review of these tubes, their history and their future. We will concentrate on the cooker magnetron at 2.45 GHz that is used in microwave ovens, but there will be brief reviews of the magnetrons at `915 MHz and 5800 MHz.

Course content will be of interest to product developers & engineers whose work relates to domestic and commercial microwave ovens, as well as process developers, systems engineers interested in industrial heating systems.

Topics include:

History of magnetron development in USA, Far East & Russia.
Overall view of key magnetron components: anode, cathode, pole pieces, etc.
Theory and experiment about normal magnetron operation.
A brief review of the theories related to abnormal phenomena i.e. damage to anodes triggering possible serious RFI problems near end of life.

**Webinars are FREE for all IMPI Members. The cost for non-members is $99 for one or $179 for the two webinars.**
**REGISTER TODAY**

Pre-registration is required. More information is available at:
http://impi.org/events/

The series is hosted by IMPI and sponsored by ConAgra Foods!

Questions? Contact molly.poisant@impi.org