IMPI 58 Short Course II:

Solid-State, RF Energy & Machine Learning Applications: Case Studies & Demonstration

This Short Course will give an overview of solid-state RF technology fundamentals and their implications for practical use. Aspects such as machine-learning based controllability, predictability, reliability, frequency ranges, and related "recipe-control" will be presented. The course will also discuss in detail the "magnetron vs solid state RF" choice by means of a spreadsheet and examples.

Furthermore, the presentations will include case studies on how to develop and apply "solid-state RF" to improve heating applications.

Live demonstrations will allow the audience to appreciate the functionality of (industrial) solid state RF energy systems, e.g. a "flameless Bunsen burner", and a small-scale coffee roaster. Importantly, a microwave furnace with machine-learning controller to enhance the cooking process will be demonstrated as well.

Engineers, application developers, and others with an interest in improving RF heating applications and the related technologies will benefit by attending.

Short Course Speakers

Klaus Werner
pinkRF, The Netherlands

John F. Gerling
Gerling Consulting, USA

John Mastela
Mw Consultant, USA

Marcio Schmidt
Taalex, Germany

Adam Jones
Crescend, USA

May 29, 2024
12:15 pm – 4:00 pm
Hyatt Regency Reston, Suburban Washington, D.C., USA

Registration Fees
IMPI Members: $275
Non-Members: $325

Register at: https://impi.org/events/symposium/