

January 2021 Fort Wayne ASHRAE Meeting Information

Date: Tuesday, January 19, 2021
Place: **Parkview Field Lincoln Financial Event Center (see attached map)**
Time: 11:30 am to 1:00 pm
Topic: How to Make Your HVAC Systems Pandemic Ready with Needlepoint Bipolar Ionization
Speaker: Charles Waddell, via virtual presentation
PDH: 1.0 PDH Credit Hour Available to All Attendees
Cost: Meeting Ticket - \$20.00 if pre-registered online; \$25.00 at the door (Includes Lunch);
Student Ticket - \$15.00

For online reservations, visit our website at www.fortwayneashrae.org. Please reserve your seat by January 15 in order to avoid last minute logistical disruptions. Tickets purchased online are subject to payment Gateway costs.

January 2021 Meeting Charles Waddell, CTO & Founder, Global Plasma Solutions



Charles "Charlie" Waddell is the Chief Technology Officer and Founder of Global Plasma Solutions, Inc., a manufacturer of Needlepoint Bipolar Ionization (NPBI) products for the indoor air purification market. His experience includes designing HVAC systems for the residential, commercial and industrial markets as well as for the automotive, hand dryer and aviation industry. Charlie holds a BSEE from Old Dominion University, Norfolk, VA.

Charlie is an active member of ASHRAE and currently a participant of ASHRAE SSPC 62.1, TC 2.3 (Gas Phase Filtration), TRG4-IAQP and formerly the secretary of TC 8.12 (Desiccant Dehumidification & Components). Charlie has over 18 years of HVAC design and application experience. Charlie's portfolio includes 30 patents granted, 28 patents pending and an article published in Engineered Systems Magazine on desiccant dehumidification. Charlie is an instrument rated private pilot and enjoys flying for business and pleasure.

How to Make Your HVAC Systems Pandemic Ready with Needlepoint Bipolar Ionization:

The presentation will discuss pathogen transmission within a facility and how to reduce the probability of transmission. The method in which Needlepoint Bipolar Ionization (NPBI) reduces particles and also kills mold, bacteria and inactivates virus will also be discussed.

Learning Objectives:

1. To become familiar with NPBI and understand where it's been applied using references and case studies.
2. Understand how NPBI is being used as a replacement to carbon in many applications to control odors from helicopters, diesel generators, loading docks, etc.
3. Understand how NPBI is being used as a replacement to UVC for coil cleaning and pathogen control.
4. Understand how NPBI reduces particles, odors, pathogens, maintenance and energy.
5. Understand how the NPBI increases a MERV 8 filter to MERV 13 and a MERV 12 filter to MERV 16.