



AN ASSOCIATION OF INDEPENDENT POWER PRODUCERS IN THE ANTHRACITE AND BITUMINOUS COAL REGIONS OF THE UNITED STATES

## 2023 ARIPPA Annual Conference Program

Crowne Plaza Harrisburg Hershey Hotel

23 S. 2nd St.

Harrisburg, PA

### **TUESDAY, OCTOBER 3<sup>RD</sup> – TECHNICAL SYMPOSIUM, TRADE SHOW & LEGISLATIVE NETWORKING RECEPTION**

#### 8:00 AM - 5:00 PM – Registration Outside of Grand Ballroom:

Registered attendees will receive a packet of info needed for all events planned throughout the day.

#### 9:00 AM - 4:00 PM – Technical Symposium & Keynotes in Grand Ballroom:

Speakers times and topics enclosed, featuring ARIPPA grants presentation by EPCAMR and WPCAMR and keynote addresses by the PJM Power Providers Group and the Pennsylvania Department of Environmental Protection Bureau of Abandoned Mine Reclamation.

#### 11:15 AM - 1:00 PM – Trade Show & Lunch in Grand Ballroom:

Enjoy lunch while seeing all the latest in products and services and share info with colleagues. The first keynote presentation will also be at approximately 11:30 AM or once attendees are about to finish their meals.

#### 4:00 PM - 6:00 PM – Trade Show & Legislative Networking Reception in Grand Ballroom:

Meet and greet with Pennsylvania state legislators and continuation of trade show. Cocktails and hors d'oeuvres will be served from 4:30 PM to 6:00 PM.



## Crowne Plaza Harrisburg Hershey Hotel Info

23 South 2nd Street, Harrisburg, PA 17101  
(717) 234-5021

### Room Reservation [Link](#)

In order for the rates to show up, the dates must be entered in correctly.

**ARIPPA Room Rate: \$120/night for 1 Queen Bed, \$128/night for 1 King Bed or \$136/night for 2 Queen Beds**

**Room Block Deadline: September 3rd**



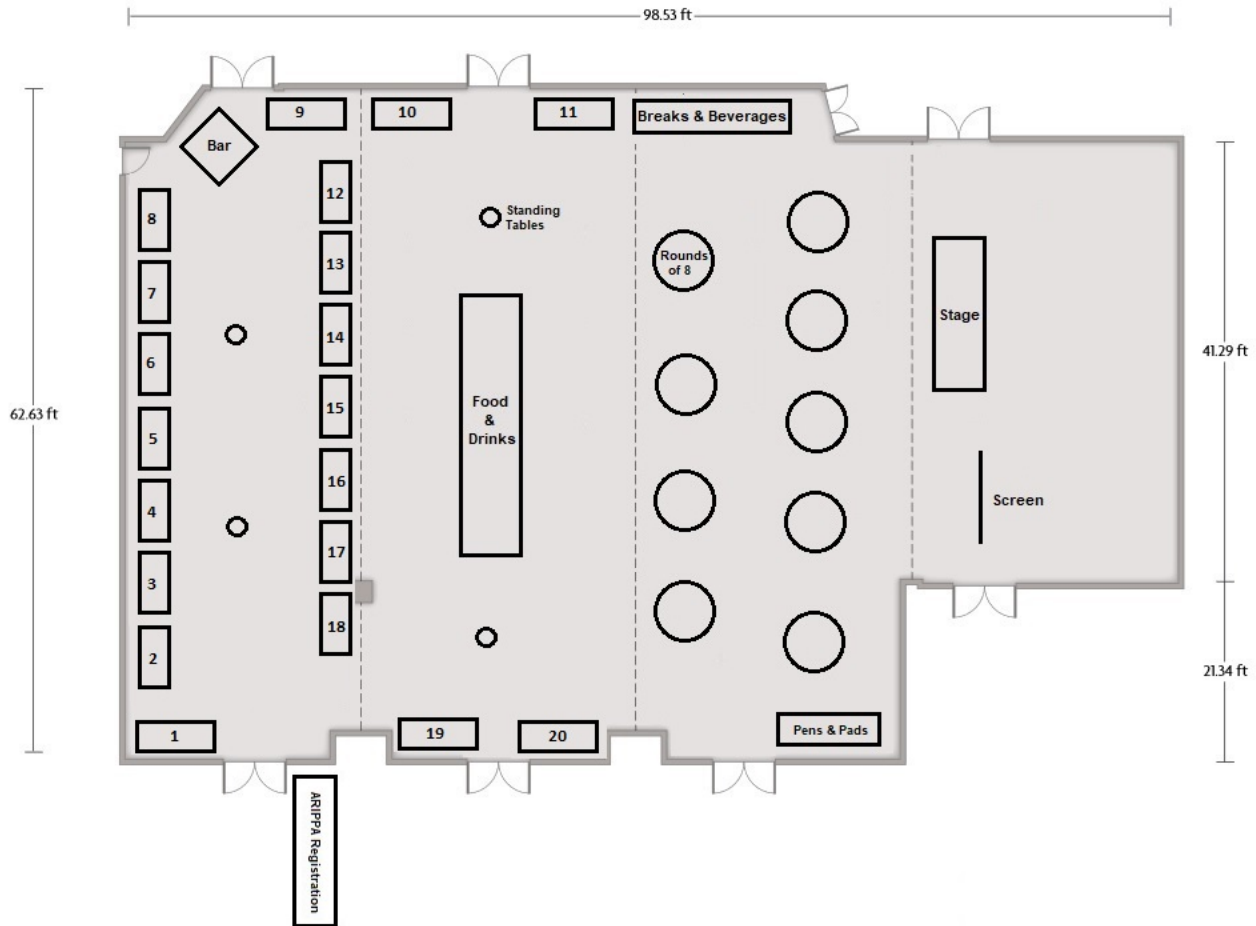
The Crowne Plaza Harrisburg Hershey Hotel provides guests with spacious rooms and suites and great amenities like complimentary wi-fi, a fitness center, and a heated indoor pool. Guests can also enjoy breakfast, lunch, or dinner at the hotel's onsite restaurant, Restaurant23.

The hotel is located in the heart of downtown Harrisburg and is in walking distance to local restaurants, bars, and attractions. Its location offers easy access to Interstates 81 and 83, the Pennsylvania Turnpike and is approximately 12 miles from the Harrisburg International Airport (MDT).

Individual guest reservations can be made by **calling 717-234-5021 and referencing the block code "RIP"** or [online](#). The ARIPPA room rate is **\$120/night for 1 Queen Bed, \$128/night for 1 King Bed or \$136/night for 2 Queen Beds**. These rates will be offered by the Crowne Plaza for Monday, October 2<sup>nd</sup> and Tuesday, October 3<sup>rd</sup>. Valet parking is available for overnight guests at the rate of \$15/day per vehicle. Attendees not staying overnight will be charged \$25/day per vehicle.

# Crowne Plaza® Harrisburg - Hershey - Grand Ballroom A,B,C & D

\*Layout subject to change depending on the number of attendees and exhibitors.





**Annual Conference Schedule**  
**Tuesday, October 3, 2023**  
**Crowne Plaza Harrisburg Hershey Hotel – Grand Ballroom**

<b>TIMES</b>	<b>PANELISTS</b>
9:00 AM	<b>OPENING REMARKS</b> Jaret Gibbons, ARIPPA
9:00 AM – 9:30 AM	<u>Generator Outage Planning and Contingencies</u> Jamie Clark, AGT Services
9:30 AM – 10:00 AM	<u>Application of StarBags to Improve Baghouse Performance and Capacity</u> Keith Ogilvie, Micronics Engineered Filtration Group
10:00 AM – 10:15 AM	<b>BREAK</b>
10:15 AM – 10:45 AM	<u>Facing Generator Life Cycle Maintenance and Life Extension Challenges</u> Howard Moudy, National Electric Coil
10:45 AM – 11:15 AM	<u>Shock Pulse Generators - An Alternative to Sootblowers</u> Ed Harris, Valmet
11:15 AM – 1:00 PM	<b>KEYNOTE, TRADE SHOW &amp; LUNCH</b> Keynote Address: <u>Reliability, Affordability and the Future of the Pennsylvania Competitive Power Market</u> Glen Thomas, PJM Power Providers Group
1:00 PM – 1:30 PM	<u>Rare Earth Elements and Critical Minerals in Coal and Coal Ash</u> Larry Kuennen & Geoffrey Hensley, Dominion Energy
1:30 PM – 2:30 PM	<b>INDUSTRY PANEL – OPEN DISCUSSIONS</b> Adam Rexroad, American Bituminous Power Partners Fred Farabaugh, Colver Green Energy Alex Brush, Gilberton Power Company Hank Zielinski, Northampton Generating Company Jeff Campbell, Stronghold Digital Mining
2:30 PM – 2:45 PM	<b>BREAK</b>
2:45 PM – 4:00 PM	<b>KEYNOTES</b> ARIPPA AMD/AML Reclamation Grants Presentation by EPCAMR and WPCAMR Keynote Address: <u>BAMR’s Bipartisan Infrastructure Law Status</u> Patrick Webb, PA DEP BAMR
4:00 PM	<b>CLOSING REMARKS</b> Jaret Gibbons, ARIPPA
4:00 PM – 6:00 PM	<b>ARIPPA TRADE SHOW &amp; LEGISLATIVE NETWORKING RECEPTION</b> Cocktails and hors d’oeuvres served from 4:30 PM to 6:00 PM

## 2023 ARIPPA Conference Presentation Abstracts

### **Generator Outage Planning and Contingencies**

**Jamie Clark, AGT Services**

This technical presentation will provide overviews of planning for generator inspection outages, whether "minor" or "major," as well as discuss some of the many contingencies which must be considered to minimize impact of expanding/unplanned worksopes.

The US fleet of turbine-driven generators is aging, with many surpassing original stator/field winding insulation design "life," often entering into their SECOND phase of planning for stator/field rewinds. Unfortunately, long lead components/materials are getting LONGER in cycle times, and the number of experienced service providers is NOT expanding with the pace of demand!

### **Application of StarBags to Improve Baghouse Performance and Capacity**

**Keith Ogilvie, Micronics Engineered Filtration Group**

Replacing conventional filter bags with StarBag filters to increase the filtration efficiency and capacity of existing baghouses is a viable alternative to costly capital equipment upgrade, or expensive and potentially technology limited pleated cartridges. StarBags have been successfully deployed in 665 MW pulverized coal plant in the US. StarBags increased filter bag life by 3x, reduced maintenance costs and fines and increased plant availability.

### **Facing Generator Life Cycle Maintenance and Life Extension Challenges**

**Howard Moudy, National Electric Coil**

Generator maintenance and life extension challenges and best practices to address them will be the key focus. The most common challenges will be identified and discussed along with the best practices to consider. Photos and case examples will be used to help best convey content. Ample time will be allotted for questions and discussion.

### **Shock Pulse Generators - An Alternative to Sootblowers**

**Ed Harris, Valmet**

Several well-known approaches are commonly used for on-line cleaning of boiler heat transfer surfaces, including sootblowers and mechanical rapper systems. Although these methods have been used for dozens of years, they have significant drawbacks for efficiency and maintenance. Shock Pulse Generators (SPGs), developed by Explosion Power (Switzerland), are new, proven technology using directed high-energy pressure pulses to effectively clean tube banks and membrane wall surfaces. Because SPGs use exhaust gas as the medium to distribute cleaning energy to the tubes, pressure pulses from the SPGs can reach tube areas more effectively than other methods. SPGs do not require steam for cleaning that can cause erosion and could otherwise generate power. SPGs are currently in use in waste-heat recovery applications with more than 1000 installations world-wide. Other applications include sludge incineration plants, hazardous waste plants, solid fuel fired boilers, and black liquor recovery boilers. Facilities in North America are now supported by Valmet.

Attendees will learn successful applications of shock pulse generators world-wide, the basic operating principles and equipment for SPGs, and why SPG technology is gaining rapid interest in waste-to-energy facilities and other applications.

### **Rare Earth Elements and Critical Minerals in Coal and Coal Ash**

**Larry Kuennen & Geoffrey Hensley, Dominion Energy**

Discuss the importance and need for REEs and certain CMs in the aerospace, defense, energy, electronics, transportation, medical, and other industries. The US government is interested in developing new domestic sources for these critical elements with the goal of decreasing our dependence on China for these elements. Coal, and particularly waste coal, along with coal ash have been identified as valuable sources for these elements. Owners and operators of the ARIPPA units should consider the potential positive financial impact of recovering REEs and CMs at their facilities.