

ASME Power Division



Executive Committee, Technical & Administrative Committees

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Visit Us on the Web

<http://divisions.asme.org/power/>



ASME Power 2016

- Conference: June 26-30, 2016
- Exhibition: June 28-29, 2016
- Venue: **Charlotte Convention Center**, 501 South College Street, Charlotte, NC
- **Conference Hotel: Westin Charlotte**, 601 South College Street, Charlotte, NC, USA 28202
- **Phone: (704) 375-2600**

ASME POWER 2016 Web Address

<https://www.asme.org/events/power-energy>

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POWER & ENERGY Conference & Exhibition

Charlotte Convention Center, Charlotte, NC

Conference
June 26-30, 2016
Exhibition
June 28-29, 2016

MESSAGE FROM THE POWER DIV. CHAIR ALSO, PREVIEW OF CONFERENCE PRESENTATIONS

The ASME Power Division volunteers are working very hard to put the final touches on this year's ASME Power Conference to be held June 26-30, 2016 at the Charlotte Convention Center in Charlotte, NC. This is the second year ASME Power is co-locating with the ASME Energy Sustainability Conference, and the ASME Fuel Cell Conference. We are spring boarding off the success, as well as lessons learned, from ASME 2015 Power & Energy and adding two New additional events, the ASME Gas Turbine Forum and the ASME Energy Storage Forum. Additionally the 24th International Conference on Nuclear Engineering (ICONE) will be co-located with the Power and Energy conference. By leveraging the diversity of subjects and collaboration of each group a synergy has resulted which will bring you the single most valuable Industry and R&D Conference you can attend in 2016.



Justin Voss, Power Division Chair

Beyond the technical content being presented, ASME 2016 Power & Energy offers pre-conference workshops, technical tours, and numerous networking events. Details regarding these events can be found at the [Conference Website](#).

If all the above is not reason enough to attend, the ASME Power Division offers multiple opportunities for you to get involved and help shape the way our

industry is evolving. The ASME Power Division consists of several Technical Committees each having a dedicated focus, but promoting a common goal which is the advancement of power generation and use. Other volunteer opportunities abound on a non-technical level through our Administrative Committees where you can engage with International Relations, Public Affairs, Student Involvement or Honors & Awards. When at ASME 2016 Power & Energy please consider attending a Technical or Administrative Committee meeting in your area of interest. The schedule of meetings will be published in the conference program.

We look forward to seeing you this summer in Charlotte, home of the NASCAR Hall of Fame!

— Justin Voss, Power Division Chair

P & E Conference offers industry relevant technical content

As owners grapple with management issues related to optimizing production and fleet reliability with current generation equipment and meeting new regulatory standards, the engineer who is technically conversant in a broader range of power generation technologies will be in demand. So round out your technical credentials, earn Professional Development Hours (PDHs) and take advantage of the diverse offerings across all the technical tracks.

A review of some the accepted abstracts show we can anticipate papers and presentations on the following topics.

The categories used for organization of the bulleted information below do not reflect typical conference track organization but rather broader engineering topics.

Applied fluid dynamics

- Managing dissolved oxygen in turbine condensates
- Efficient evacuation of air in condenser operations
- Design of ADHPs (Annular Disk-Shaped Heat Pipes)
- Rankin cycle modeling
- Damper seals and swirl brakes, flow and leakage
- Axial compressor flow and creep behavior
- Piping systems and fuel oil viscosity
- Nucleate pool boiling and surfactants
- Comparing the efficiencies of micro-fin and smooth tubes
- Effects of supercooling and superheating on vapor compression
- Designing valves for Super Critical Power Plants (SCPPs)
- Efficient utilization of superheat of turbine bleeds
- Analyzing fluid film bearings

Call to Action!

Track & Session Chairs: Please log into the Paper Review Session and complete required tasks per schedule, including assigning reviewers. Contact Program Chair, Jason Lee if you need assistance. See



ASME 2016 POWER & ENERGY INFO

Events co-located with the ASME Power Conference 2016 include:

- ASME 2016 10th International Conference on Energy Sustainability, sponsored by ASME's Solar Energy and Advanced Energy Systems Divisions
- ASME 2016 14th Fuel Cell Science, Engineering, and Technology Conference, sponsored by ASME's Advanced Energy Systems Division
- ASME Energy Storage Forum
- ASME Gas Turbine Forum sponsored by ASME's International Gas Turbine Institute
- 24th International Conference on Nuclear Engineering (ICONE), co-sponsored by ASME, JSME and CNS



Frank Michell, Chair, Power & Energy Executive Advisory Committee

The ASME 2016 Power & Energy Conference's Executive Advisory Committee is Chaired by Power Division Past Chair, Frank Michell and includes Power's Conference Chair, Justin Voss, along with five co-chairs for the Energy Sustainability conference, two co-chairs for the Fuel Cell conference the Nuclear Conference chair, the ICONE liaison and seven other Advisory Committee members. [View the entire list.](#)

2015-2016 Executive Committee

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KEY DATES for Authors & Reviewers:

Copyright Process Open

- ◆ February 8, to March 25, 2016

Copyright transfer forms are requested upon acceptance of the draft and prior to submittal of the final paper. [Click here for details.](#)

Revised Draft Paper Submission

- ◆ February 22, 2016

Revised Draft Paper Acceptance/Rejection Notification

- ◆ March 7, 2016

Last Day for Copyright Agreement Submission

- ◆ March 25, 2016

Submission of Final Paper

- ◆ March 28, 2016

(this article continues on page 2)
(P&E Conference, continued from page 1)

Materials: design, applications and maintenance

- Corrosion of generator retaining ring component materials
- High-cycle fatigue in gas turbine compressor blades Boiler fouling processes
- Nanotechnology in thermoelectric applications
- Weld crack assessments and repair optimizations in HP rotors
- Cyclic hardening parameters and non-linear kinematic constants
- Heat transfer performance of steam-cooled ribbed channels
- Safety enhancing applications and issues
- Hydrogen cooling system purging
- Auxiliary grounding systems for substations
- Managing a massive downstream dam water leak

Operation and Maintenance of power generation equipment

- Gas Turbine fleet management
- Data management processes for Operations & Maintenance
- Data systems for modeling and monitoring boiler efficiency
- Thermal performance of rotary regenerative air preheaters
- Combined cycle firing strategies and performance findings
- Nuclear pumping system maintenance
- Operational and maintenance challenges of system load growth
- Predicting waste gas boiler NOX
- Bearings in rotordynamic systems

ASME TURBO EXPO 2016



[ASME 2016 Turbo Expo](#) kicks off June 13-17, 2016 in Seoul, South Korea at the COEX Convention & Exhibition Center, offering attendees the latest in turbine technology, research, development, and application in the following topic areas: industrial gas turbines and aircraft engines, steam power plants, wind turbines, fans & blowers, organic Rankine cycle and supercritical CO2 cycle power systems. Conference Chair is Tim Lieuwen, Georgia Institute of Technology

2015-2016 Technical & Administrative Committees

Combined Cycle Power Plants

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POWER DIVISION 2016 STUDENT COMPETITION

A relatively new addition to the ASME Power Conference is the Student Paper Competition. During ASME 2016 Power and Energy Conference & Exhibition the ASME Power Division is honored to be hosting their 3rd Annual Student Paper Competition.

This competition encourages active participation of students in the ASME Power & Energy Conference by submitting high quality technical papers on various aspects of the Electric Power Generation Industry. Please join us to see the future of the Power Division as these students present their Technical Papers in Track 1-10.

The Power Division is very excited about the success of this program and look forward to continuing to grow in the area of student involvement. Below are the winners of the last two competitions:

2015 Competition

1st Place - Andrey Gunawan, Arizona State University, PowerEnergy2015-49094
Thermo-galvanic Waste Heat Recovery System in Automobiles

2nd Place - Moritz Huebel, University of Rostock, PowerEnergy2015-49179 Identification of Energy Storage Capacities within Large-Scale Power Plants and Development of Control Strategies to Increase Marketable Grid Services

3rd Place - Nazia Binte Munir, Prairie View A & M University, PowerEnergy2015-49222 A Study of Aerodynamics Force Evaluation of Horizontal Axis Wind Turbine (HAWT) Blade Using 2D and 3D Comparison

2014 Competition

1st Place - Nathan Smith, University of Maryland, Power2014-32144 Justification for Long Distance Transmission

2nd Place - Jonathan Lee, University of California, Power2014 -32231 Automatic Fault Location on Distribution Networks Using Synchronized Voltage Phasor Measurements Units

See what students from past conferences are saying.....

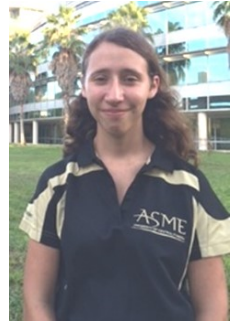
“A good chance to broaden your horizon.”
Chao Sui, 2015 Competitor, Prairie View A & M University

“The student paper competition was a great chance to get in contact with people from different backgrounds working on similar research topics. It was highly motivating and helped increasing the quality of my paper and presentation tremendously. I really appreciated the chance to get help and feedback from experienced engineers.”
Moritz Hübel, 2015 Competitor, University of Rostock

“What I really like about ASME Power Division Student Paper Competition is that it is a unique venue that brings together a diverse group of students, who are highly international, and it is probably the best place for me to meet and network with them. The 2015 competition was the first ASME power division student paper competition that I attended and I am still blown away by the things that the organizers had done for us; they waived our registration fee, they invited us for a full-course student dinner at the Hard Rock Cafe, plus they held the award ceremony inside the hangar of USS Midway — that’s a first for me!”

Andrey Gunawan, 2015 Competitor, Arizona State University

— Rachel Willis, Power Division Student Programs Chair



Rachel Willis, Student Programs Committee Chairperson



This year we had our first student mixer, dinner at the Hard Rock Café in San Diego. In the picture we have both the Executive committee and the students who participated. (San Diego, CA, 2015)