

Message from ASME Power Division Chair

Greetings! You are receiving this message if your primary or secondary interest in ASME lies within the Power Division. My wish is that you have work and find yourselves in good health.

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1. National Energy Policy – at issue; Clean Power

ASME provides many opportunities for the practicing engineer in the way of technical forums with opportunities for participation, at any level, within your particular area of interest. There is a cooperative atmosphere among professionals within the Power and Energy field to advance with developments in technology and efficiency to produce ever cleaner power. In the recent past, we heard the term “clean coal”, which is a form of clean energy referencing advances and improvements made in the capture of NO<sub>x</sub>, SO<sub>x</sub>, particulate and Hg emissions. To extend further, a newer term has been introduced referencing “clean power”. Clean Power today makes reference to an energy portfolio that limits the amount of CO<sub>2</sub> production. The portfolio is made up of coal, nuclear, biomass, and renewable energy and efficiency improvements in producing or consuming power. The point is that we need all the forms of energy since no one source is capable of supplying all our energy needs alone. Please take a look at recent statements introduced by ASME and several Engineering Societies through these links:

National Energy Policy Goals Proclamation;

<http://files.asme.org/asmeorg/NewsPublicPolicy/GovRelations/PositionStatements/17931.pdf>

ASME Position Statement relating “Technology and Policy Recommendations and Goals for Reducing Carbon Dioxide Emissions in the Energy Sector;

<http://files.asme.org/asmeorg/18267.pdf>

What is your opinion? Is the basis sound? Where does this lead us? What will be the cost? You ask the tough questions. I will be glad to hear them. As mentioned in my last newsletter, our group has differing well thought out viewpoints; just ask. I have heard some of those viewpoints.

2. Feature: Steam Generators and Auxiliaries Committee – ASME Power Division.

The ASME Power Division is made up of technical committees that form the backbone of this division. It is through volunteers in the technical community that cause the body of work to be generated through these specialized areas. Each committee recognizes key issues and prevalent concerns that need to be addressed within the industry. The issues and concerns are addressed within a forum that is unlike any other organization. A body of expertise is made up of persons participating through these committees within the

community, such as you. There are 10 committees contained within the ASME Power Division as established within the By-Laws.

Mike Polagye, Chair of the Steam Generators and Auxiliaries Committee describes and issues a call to those interested in contributing on this committee. This committee was added within the last year to address a key area that was addressed within the remaining technical committees, but not with the same focus that is needed. Following is his description and invitation:

The scope of the Steam Generators and Auxiliaries Committee as established by the Power Division Executive Committee is: to direct attention to steam generators used in electric power generation and all auxiliaries located in the fluid and process cycles associated with steam generators including associated controls and instrumentation. To this end I expect the committee initially to be predominantly focused on supporting the annual ASME Power Conference by soliciting and/or writing technical papers related to new developments or operating experience with steam generators and associated auxiliaries, by performing peer review of those papers to ensure high quality, commercial free, technical content, by supporting the Steam Generators and Combustion Technologies Track in the form of track and session chairs, and by cooperating with other Power Division committees and their conference tracks. From there, depending on the number of committee members and their areas of interest, there are many possible courses of action that will enrich the committee experience and benefit the technical community it serves. These could include roundtable discussions/panel sessions at the conference with a focus on current issues and developments, presentations at committee meetings, outreach to early career engineers, college students pursuing an engineering degree and high school students considering a career in engineering, etc.

I look forward to having others with an interest in steam generators and auxiliaries join me on the committee and assist in bringing the committee to a dynamic technical level of benefit to the power generation industry.

I hope you can use the above as a starting point for your next Power Division newsletter. Please let me know if you have any comments or suggestions. I look forward to working with you to get the word out that the Power Division is in the process of reactivating the Steam Generators and Auxiliaries Technical Committee and is looking for people to join and bring this effort to fruition.

Best regards,

-Mike

Mike Polagye, Chair  
Steam Generators and Auxiliaries Committee  
ASME Power Division  
e-mail: michael.polagye@fmglobal.com

As an underscore, Mike has added some of the important issues we are facing that are within the scope of the Steam Generators and Auxiliaries Committee, not in any particular order:

- a. The use of P-91/T-91 materials, material selections for ultra-supercritical boilers;
- b. The impact on the steam generator operation, design, and controls from the retrofitting of flue gas emission control equipment
- c. The cyclic operation of p-c fired boilers designed for base load operation.

### 3. Listing and brief description of Technical Committees within the ASME Power Division

Following from Mike's message above is the balance of technical committees which form the backbone of the ASME Power Division:

a. Steam Turbines, Generators, and Auxiliaries Committee

The Steam Turbines, Generators and Auxiliaries Committee will direct attention to steam turbines, electrical generators, condensers, cooling towers, low pressure pumps, boiler feed pumps, feedwater heaters and related equipment in both the utility and independent power environments.

b. Combined Cycle Committee

The Combined Cycle Committee will direct attention to all aspects of the combined cycle power plant that utilizes combustion turbines, with heat recovery steam generation and related equipment in both the utility and independent power environments.

c. Systems and Power Generation Facilities Design Committee

The Systems and Power Generation Design Committee will direct attention to power plant systems such as thermal cycles, combustion air and gas, cooling water, piping and other power plant mechanical equipment systems and all matters pertaining to their design and erection.

d. Plant Operations Committee

The Plant Operations Committee will direct attention to the selection, performance, operation and maintenance aspects of electric power generation equipment and systems in both the utility and independent power environments.

e. Fuels and Combustion Technology (FACT) Committee

The FACT Committee will direct attention to the research, selection, performance, operation and maintenance aspects of fuels and combustion technology

f. Reliability, Availability and Maintainability (RAM) Committee

The Reliability, Availability and Maintainability Committee will direct attention to the reliability, availability and maintainability of electric power generation equipment and systems in both the utility and independent power environments.

g. Heat Exchangers Committee

The Heat Exchangers Committee will direct attention to the selection, performance, operation and maintenance aspects of electric power generation relative to all types of heat exchangers in both the utility and independent power environments.

h. Hydro Power Committee

The Hydro Power committee will direct attention to the selection, performance, operation, and maintenance aspects of utility hydropower equipment and systems.

i. Renewable Energy and Advanced Energy Committee

The Renewable Energy and Advanced Energy Committee will direct attention to the research, selection, performance, operation and maintenance aspects of renewable and advanced forms of energy.

j. Steam Generators and Auxiliaries Committee (see item 2 featured above)

4. ASME Power Conference 2009 – Albuquerque, NM

<http://www.asmeconferences.org/Power09/>

Look under “volunteer organizers” on the left hand column. It will direct you to all the different committee chairs by technical content. I invite you to call one up to express your interest and join us at our next conference. It was for me and perhaps for you that you may find is very rewarding throughout your career. It is also an investment in a little of your time that can become part of an enjoyable continuing education experience, while building a better future. The ASME Power Conference is where we meet. The next meeting is July 20<sup>th</sup> through 23<sup>rd</sup> in Albuquerque, NM.

Look also at the workshops that are offered at the conference. The leading experts teaching are also long standing ASME members that also serve as volunteers on the different committees. Check it out. Below is a link; click on each title for detailed description of each workshop. You may sign up for the Workshops that will take place on Monday, July 20<sup>th</sup>. PDH's will also be available to those that attend the workshops.

<http://www.asmeconferences.org/Power09/Workshops.cfm>

As part of the Power Division, we try to bring training at different levels to you. The conference is a great place to do this. The conference also provides great networking opportunities with peers and experts within the industry. For registration information see:

<http://www.asmeconferences.org/Power09/ConfRegistration.cfm>

ASME members who sign up for the conference receive discounted rates through June 15<sup>th</sup>. On behalf of the Power Division Executive Committee, we hope to see you there!

Last, I would like to hear your feedback on what you would find beneficial to meet your needs. The membership voice is important and is also who we serve.

Sincerely,

***R.H. (Rick) Eaton, PE***

Chair, EXCOM

ASME Power Division

*Setting the Standard*

Direct: 770.829.6932

Cell: 678.736.1220

Fax: 770.829.6600

[richard.eaton@ch2m.com](mailto:richard.eaton@ch2m.com)

[eatonr@asme.org](mailto:eatonr@asme.org)