The ASME V&V Standards Committee is exploring the formation of a new committee to develop verification and validation protocols for computational modeling in energy systems and applications. ASME is currently soliciting subject matter experts and affected stakeholders to help support this work and influence the prioritization of topics to be addressed.

This effort reflects a growing interest among various stakeholders from industry, government, and academia in Verification, Validation and Uncertainty Quantification (VVUQ) as a vehicle to help advance new technologies and methods, and recognition of the need for standard procedures in modeling and simulation that support energy sources and systems. Specific areas of focus are currently being identified and prioritized, including Big Data/Analytics, modeling and simulation of high temp/high pressure environments, adapting ASME’s nuclear standards to sub-sea environments, energy sources, energy conversion systems, Integrity and Risk Management, and cybersecurity.

The new committee will also foster collaborations within various Sectors of ASME, including the TEC Sector, as well as other scientific and technical societies (e.g., SPE, AAGP, SNA) and the energy industry as a whole.

For further information, contact Ryan Crane, CraneR@asme.org.

Benefits to Participants of Standards Participation

By participating, you can influence the quality and direction of the standards of your chosen field, and reap personal and professional rewards, such as:

» Networking with the foremost technical experts in your field.
» Awareness of technical issues, standards and best practices in your industry.
» Broader understanding of other segments of your industry worldwide.
» In some instances, fulfilling the requirements for professional development.

Benefits to Supporting Organizations and the Public

Organizations realize direct and indirect benefits when they support employees’ engagement in ASME Standards & Certification activities, such as:

» Organization’s perspective considered in standards development and requirements.
» Enhancement of participating employees’ understanding of relevant standards.
» Access to opportunities for shared participation in research and development.

How to participate

Participation is simple. You need to submit an ASME Codes and Standards Personnel Form and ASME Codes and Standards Participation Acknowledgement Form.

FAQs about Standards and Certification
http://tinyurl.com/ostdeen

General information on participation in Standards committee:
http://tinyurl.com/plvggme

» Are the computational models of your engineered systems sufficiently accurate to support programmatic decisions?
» Do the computational models you use have adequate accuracy and level of detail for their intended use?
» Are the methods you are using to verify and validate your computer models aligned with best practices?

ASME’s V&V activities facilitate sharing of best practices in V&V among the technical community — engineers, scientists, program managers, and software developers — and foster the development of the state of the art.
ASME Verification and Validation Symposium
May 3-5, 2017 • The Westin Las Vegas Hotel
Las Vegas, NV

Connecting the Computational Modeling and Simulation Community

Join scientists, engineers and other stakeholders using computational modeling and simulation in various fields to showcase and exchange ideas, methods and solutions in verification, validation & uncertainty quantification (VVUQ). Presenters include experts from industry, academia and government, including AFRL, ANSYS, Inc., Bombardier Transportation, Caterpillar, FAA, FDA, General Electric, Jet Propulsion Laboratory, Los Alamos National Laboratory, MIT, NASA, NIST, NRC, Purdue University, Rolls Royce, Sandia National Laboratories, Siemens Energy, SwRI, Texas A&M, Vanderbilt University, Virginia Tech, and Westinghouse Electric Company.

Showcase your methods and exchange ideas and solutions with other experts.

Preconference activities include technical training seminars and V&V standards development committee meetings.

Important V&V Symposium Dates
January 27, 2017 – Submission of Abstract
February 12, 2017 – Author Notification of Abstract Acceptance
March 22, 2017 – Submission of Full Abstract
go.asme.org/vandv

ASME MasterClasses – ASME presents two Seminars at the 6th Annual ASME Verification and Validation (V&V) Symposium

Verification and Validation in Scientific Computing, presented by Dr. William Oberkampf and Dr. Christopher Roy.

Probabilistic and Uncertainty Quantification Methods for Model Verification & Validation, presented by David Riha and Ben Thacker, Southwest Research Institute

Both will run concurrently on May 1-2, 2017, prior to the start of the Symposium on May 3. CEU (continuing education units) are awarded upon course completion.

https://www.asme.org/events/vandv/program/courses-workshops


ASME V&V Standards Subcommittees

» V&V 10 – Verification and Validation in Computational Solid Mechanics
» V&V 20 – Verification and Validation in Computational Fluid Dynamics and Heat Transfer
» V&V 30 – Verification and Validation in Computational Simulation of Nuclear System Thermal Fluids Behavior
» V&V 40 – Verification and Validation in Computational Modeling of Medical Devices
» V&V 50 – Verification and Validation in Computational Modeling for Advanced Manufacturing

Contact the appropriate staff engineer if you are interested in participating on a V&V Subcommittee:

» V&V 10 – Fred Constantino, ConstantinoF@asme.org
» V&V 20 or V&V 50 – Marian Heller, HellerME@asme.org
» V&V 30 or V&V 40 – Ryan Crane, CraneR@asme.org

Journal of Verification, Validation and Uncertainty Quantification (VVUQ) – stay up-to-date on discipline-specific applications, and development and assessment of new methodologies for VVUQ.

To submit a paper, go to http://journaltool.asme.org