

# CRTD works for you.

The CRTD can help you convene the right people to conduct research and serve as an unbiased third-party to develop your research project and advance the field of mechanical engineering. Our current research committees include:

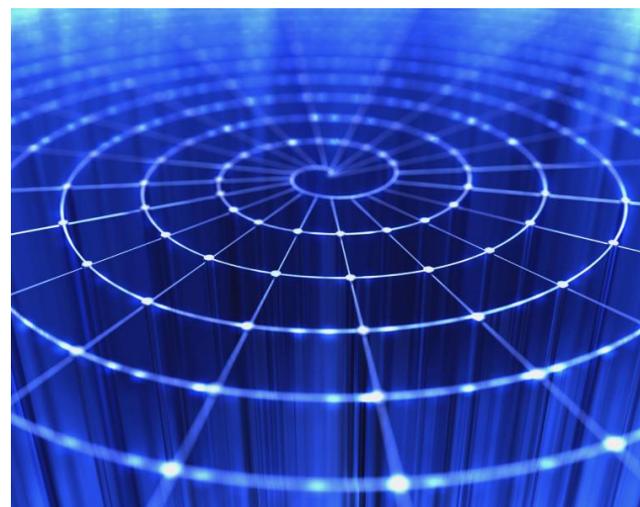
- > Corrosion & Deposits from Combustion Gases
- > Gas Pipeline Safety
- > Energy Environment & Waste
- > Mechanics of Jointed Structures
- > Nanomanufacturing Technology
- > Peer Review Committee for Energy and the Environment
- > Power Plant & Environmental Chemistry
- > Radiation Technologies
- > Risk Technology
- > Sustainable Products and Processes
- > Water & Steam in Thermal Systems
- > Water Management Technology
- > BioEnergy (ad hoc)

While many CRTD projects focus in these areas, CRTD is always open to any new and worthwhile ideas that would benefit from the talents of the mechanical engineering community.

To begin a project or for more information about what CRTD can do for you or how you can get involved, contact CRTD Director Dr. Michael Tinkleman at [tinklemanm@asme.org](mailto:tinklemanm@asme.org) or visit [www.crtdd.asme.org](http://www.crtdd.asme.org).

## About ASME

ASME helps the global engineering community develop solutions to real-world challenges. Founded in 1880 as the American Society of Mechanical Engineers, ASME is a not-for-profit professional organization that enables collaboration, knowledge sharing, and skill development across all engineering disciplines, while promoting the vital role of the engineer in society. ASME codes and standards, publications, conferences, continuing education and professional development programs provide a foundation for advancing technical knowledge and a safer world.



# Center for Research and Technology Development

The ASME Center for Research and Technology Development (CRTD) facilitates the collaboration between industry, government, and academia needed to address critical national and global issues that require mechanical engineering expertise. By supporting research efforts that meet the needs identified by today's mechanical engineering professionals, we help to advance the technologies and processes that will ensure safe and sustainable development now and in the future.

## Contact us

P: 202.785.3756  
F: 202.785.8120  
1828 L Street, N.W. , Suite 906  
Washington, DC 20036

[research@asme.org](mailto:research@asme.org)  
[www.crtdd.asme.org](http://www.crtdd.asme.org)

September 2010

## Officers

Richard Jacobsen, Ph.D. Chair, BRTD  
[jacorich@isu.edu](mailto:jacorich@isu.edu)

I.S. Jawahir, Ph.D. , Vice Chair, BRTD  
[jawahir@enr.uky.edu](mailto:jawahir@enr.uky.edu)

## Staff

Director: Michael Tinkleman, Ph.D.  
Manager: Norma Johnston

## CRTD provides:

A mechanism for development of pre-competitive, collaborative research projects

Vision and roadmap workshops

Industry best practices

Peer and program reviews

Research needs/gaps identification workshops

Industry relevant handbooks

# Support. Connect. Advance.

The CRTD is a member-driven research program that uses our collective knowledge, our connection with federal agencies, and our recognized leadership to effectively plan and manage ASME's research activities to meet the needs of mechanical engineering professionals across the nation. Since our founding in 1985, we have remained committed to advancing the field of mechanical engineering in a way that addresses the major challenges facing our world today.

We are currently supporting projects in the areas of gas pipeline safety; energy, environment, and waste; sustainable products and processes; and water and steam in thermal systems and will continue to support any emerging areas of need by:

- > Leveraging funds for research and development to address research and technology needs for industry and government
- > Serving role as neutral party convener
- > Bringing together key players to share knowledge and best practices
- > Providing the collective knowledge of ASME members to government and industry programs

By facilitating collaboration between key stakeholders, CRTD has made significant strides towards addressing new and unfulfilled research and technology needs.

**Read about some of our recent accomplishments >>>**



## Application Guide for Determining the Yield Strength of In-Service Pipe by Hardness Evaluation

To help ensure the reliability of the pipelines that deliver critical resources, CRTD brought together a consortium of gas pipeline companies which funded the development of a guide that describes a complete process for conducting field hardness testing to estimate the yield strength of pipeline steels. The guide outlines a non-destructive testing process that is suitable for in-situ testing on operating pipelines, at pipe storage facilities, or various other locations and that also allows for process variations.

## ASME Water Management Technology Vision and Roadmap

In the United States, an aging water infrastructure and inefficient water usage are combining to make the current growth in water demand unsustainable. CRTD convened members of the water industry, government energy agencies, and national labs to develop a vision and roadmap to guide ASME in developing value-added products and services in the area of water management technology. Stakeholders determined research, implementation, and education, outreach, and training activities that will contribute to more effective water management.



## PEER Review for DOE/NETL Advanced Integrated Gasification Combined Cycle (AIGCC) Program

Recognizing the significant emissions-reducing potential of AIGCC, the U.S. Department of Energy (DOE) and the National Energy Technology Lab (NETL) are actively pursuing R&D to advance the technology. CRTD aided in this process by conducting a five-day peer review that evaluated selected AIGCC research projects. CRTD brought leading academic and industry experts together to conduct this independent, third-party peer review to provide NETL with the insight needed to further improve its research program.

[www.crttd.asme.org](http://www.crttd.asme.org)  
[research@asme.org](mailto:research@asme.org)

