



Process Industries Division (PID)

1287 (I) + 2258 (II) + 4335 (III)=7880 Members

Serving Mechanical Engineers Around the World in the New-Old Process Industries Areas

Mission

- Globally oriented
- Enhance technical knowledge
- Share ideas and experience
- Stimulate R&D
- Support emerging areas

Focus

- Communication
- Membership
- Awards

Vision

Foster and lead the promotion of the art, science and practice of Mechanical Engineering as related to Process Industries in key industrial areas such as:

- Compressor Applications • Heat Exchangers
- Industrial Water Technologies • Cryogenics...

PID Goals

- Become a prime source of global knowledge, innovation and practice on the Process Industries,
- Size, address, discuss and adapt to changes in engineering environment,
- Foster and encourage PID programs to benefit the existing and the potential new ASME members and their Associates Industries,
- Foster and encourage cross-fertilization through partnerships and group discussions – achieve individual and group pre-eminence,
- Wise and prudent management of PID's human and monetary resources needed to stimulate these goals.

Industry – R&D – Customer Link
Focus on novel industry needs and applications in the area of: Mechanical, Rotordynamic, Thermodynamic and Aerodynamic Aspects of Industrial and Pipeline Compressors

- 5 Sessions
 - 17 Technical Papers

Industry – R&D – Education - Customer Link
Focus on novel industry needs and applications in the area of:
Heat Exchangers: Nano-Tech, Small & Large-Scale Novel Materials, Direct-Contact, Fuel Cells. Fouling Mitigation of Process Heat Exchangers for Energy – Environment - Transportation

- 8 Sessions
 - (co-sponsored with K-10)
 - 33 Technical Papers
- Prepare for a Symposium - 2005

Focus on novel industry needs and applications in the area of:
Industrial Water Purification and Cryogenics for Energy – Environment - Transportation

- Prepare for a PID symposium -2005

- 2 Sessions
 - 4 Technical Papers
 - 1 Panel

Synergy Within PID – Industry Participation

IMECE 2002 Paper #34599
Reducing The Scale Deposition With MVR
Pulp & Paper Industry (P.Toma -PID- & K. Miller – Pulp Mill)

Synergy Within PID – Global Co-Operation

HEAT EXCHANGERS From CFD COMPUTATIONAL FLUID DYNAMICS To Manufacture

Numerical Analysis of Solid-oxide Fuel Cells (S. Beale – PID & Y. Lin)
Sympos. on Exergy, Energy and Environment, 2003, Izmir

IMECE 2003 Paper #43294
Advances in Recuperator Technology for Gas Turbine Systems (A. Muley & B. Sundén – PID)

Focus

- Communication**
 - Sessions and Conferences (IMECE Congress and NHTC)
 - Newsletters, Web Page
 - ASME Journals papers
 - Special events (Environment-Water-Energy, CFD), ASME Turbo Expo
 - ASME Education & Training Newsletter
- Membership**
 - Committees participation
 - Adapt and open to existing body of ASME Members
 - Local technical & social gathering
 - Student membership
- Awards**
 - PID Sponsored ASME Fellows
 - Potter Award
 - Student scholarship

Actions

- PID**
 - Maintain a global activity and thrust
 - Committees meetings (during IMECE & telephone conferences)
 - Joint & Sponsored Sessions
 - E-mail base and web-linked newsletter
 - Interactive Web sites
 - Pursue activities & programs with student members
 - Promote PID : in Mechanical Engineering Publications and through pro-active participation in forums and special presentations
 - Pursue inter-society conferences & seminars
- Committees**
 - Maintain and expand the global participation
 - Insist on industry-based activity
 - Seek excellent, novel and industry input (papers)
 - Organize informal meetings and topic-focused seminars

Problems

- Industry is reluctant to publish and release new and exciting ideas
- Lack of incentive for industry members to publish, participate, and drive
- Insufficient number of relevant papers
- Priority on number not on quality
- Strict, time-enforced, rigorous quality screening process (papers). Quality to be measured using:
 - novelty
 - industry needs
 - industry participation
 - interest and potential audience
- Lack of any monetary (discounts) incentive for authors