



JULY 2015

ASME's International Mechanical Engineering Congress and Exposition (IMECE) is the largest interdisciplinary mechanical engineering conference in the world. Among the 4,000 attendees from 75+ countries are mechanical engineers in advanced manufacturing, aerospace, advanced energy, fluids engineering, heat transfer, design engineering, materials and energy recovery, applied mechanics, power, rail transportation, nanotechnology, bioengineering, internal combustion engines, environmental engineering, and more.

INNOVATION @ IMECE: Things to Look for in 2015

Important Links

- [Register Online](#)
- [Book Your Hotel Room](#)
- [Make Travel Plans](#)
- [Obtain a Visa](#)



Be Still My (Artificial) Beating Heart: Keynote Event



Houston heart surgeon [William E. "Billy" Cohn, MD](#), will be the keynote speaker for IMECE 2015. Dr. Cohn has championed a long-term, artificial replacement for the failing human heart.

Unlike existing short-term devices that emulate the beating organ, the new machine uses mechanical pumps to propel blood through the body at a steady pace so that its recipients will have no heartbeat at all. Be prepared to learn about Dr. Cohn's research and his innovative work resulting in more than 90 U.S. patents, and another 60 international patents for his medical device innovations.

Micro and Nanotechnology Forum: We Want Your Poster Submissions

There's still time to become part of IMECE by [submitting an abstract by July 20](#) for a poster to be presented during the Micro and Nanotechnology Forum. [Hear from past participants](#) how presenting a poster has helped advance their research in micro and nanotechnology from a variety of disciplines, including heat transfer, fluid mechanics, bioengineering, and materials science.

Stop. Registration Time.

[Registration is open](#) for IMECE 2015. Don't miss this chance to save as much as \$150 on registration rates if you register by **August 10**.

Don't Forget the Guest Tours

Is it your first time in Houston? Or would you just like to explore the area? We have organized three tours for that are designed to showcase many diverse attractions in the Houston area. Here are the tours for 2015:

- [Space City USA](#) - Sunday, November 15
 - [Galveston Museum and Historic Tour](#) - Monday, November 16
 - [George Ranch Historical Park](#) - Tuesday, November 17
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In the World of Interdisciplinary Mechanical Engineering

Technique Suggests Potential for Solar Cells to Absorb More Energy from the Sun

[Find out](#) how researchers made a semiconductor crystal with a variable band gap that could lead to solar cells that absorb more energy from the sun.

ASME FutureME Video on Confronting Energy Challenges



[Hear from Nathan Johnson](#) about what concepts engineers should consider in the design process.

Researchers Design Placenta-on-a-Chip to Better Understand Pregnancy

[Read more](#) about the international team that has developed the "placenta-on-a-chip" technology to study the role of this crucial temporary organ during pregnancy.

Engineering Bio-Hybrid Devices



[Learn from Rashid Bashir](#) about how the principles of engineering and biology can be integrated to develop bio-hybrid devices and discusses the challenges of their deployment.

VIEW FURTHER DETAILS ON PROGRAM TOPICS AND CONFERENCE INFORMATION.

