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EMEA eUpdate

The monthly update for Mechanical Engineers in Europe, Middle East and Africa

In this issue

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FROM THE ASME PRESIDENT: A PASSION FOR ENGINEERING

Julio C. Guerrero

I am honoured to write this letter as the 134th president of ASME. Each president brings a certain focus, passion and energy to our organisation and I look forward to working with the Board of Governors, senior volunteers and the staff leadership to continue that tradition.

I believe there are two things that make us all human, first that we can love, and secondly, we can create. Engineering is connected to one of those two things — the ability to create. I love engineering with a passion, and I want to work together with you through our association with ASME to inspire the millions of students and engineers worldwide to feel as passionate as I do about life and about our profession.

As a 6-year old I fell in love with engineering after seeing Neil Armstrong become the first human to walk on the moon. When I was a 12-year old visiting a shipyard in Peru, I learned how a 30,000-ton ship can float, and after visiting hydroelectric plants in the Andes with my father, I began to learn how they operated. These and other experiences not only helped shape my passion but helped me understand the importance of mentors and experiences in shaping a passion for engineering.

Over the past three years, we have begun an important journey to prepare the Society to meet the needs we will face in the 21st century. It began with Pathway 2025, which galvanised our focus on having a global impact, developing the engineering workforce, and addressing the energy issues of our planet.

As I addressed the delegates at the 2015 Annual Meeting last month in Jacksonville, Florida, I shared some of my ambitions as president. During my tenure I would like to see us focus on engineering our own transformation — to give our organisation a crisp articulation of what is

possible and the path that will bring it to life. We know that it will be a significant yet exciting journey to become the kind of driving force for innovation and networking that we all know that ASME is and can be around the world. Everything we have accomplished as a Society has prepared us for this time in our history. I believe we are ready to explore the kind of transformation that successful organisations undertake to build a foundation for our growth for future decades and beyond.

That being said, the presidency of ASME must never be about the person who is in that position — it is, however, about us serving our organisation and inspiring all of us to fulfill its mission. During the next year, I would like very much to meet and talk with as many of you as possible about how we will work together to achieve our mission to serve our global communities and to apply engineering knowledge to improve the quality of life and to communicate the excitement of engineering. Together, we can set our sights on a brighter future for ASME.

For well over a hundred years, ASME has been the place for mechanical engineers to grow and develop — developing codes and standards, doing research, networking, collaborating and bringing their ideas both to our community and to life — making a difference in our world. Our transformation must prepare our organisation to inspire more students and early career engineers to join our community. They need inspiring reasons to join us.

This year, we will focus on developing our capability to build and execute more global strategies so that we can have a greater impact on the engineering community. I invite you to join me and our Society in the passion of engineering so we can reach our goals. Let's be passionate about our work and find fulfillment in our profession so that we can make our world a better place.

Julio C. Guerrero
ASME President

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WINNERS OF THREE INNOVATION SHOWCASES SELECTED

Nine hardware entrepreneurs were selected as the winners of the 2015 ASME Innovation Showcase (ISHOW), a global competition with events in India, Kenya and the United States. This year marked the first time that the programme, which highlights hardware-led social innovations that improve the quality of life in communities around the world, was presented outside of the United States.

Ten finalists faced off at each of the competitions, where they pitched and demonstrated their products in front of a panel of experts. In addition to winning a share of $150,000 in cash prizes, each of the nine winners also received an extensive design and engineering review from a team of industry experts.

Akash Agarwal, Syauqy Aziz and Rajeev Kumar were selected as the winners of the inaugural ISHOW in India. The event, which was held in partnership with Villgro Innovations, took place on 20 April at the Hyatt Regency Hotel in Pune, in conjunction with the ASME Additive Manufacturing+3D Printing Conference.

Agarwal, founder of New Leaf Technologies, won for his company's GreenCHILL off-grid refrigeration system, which uses renewable energy sources like biogas, waste heat, dry cow manure and other farm waste for cooling milk, fruit and vegetables before they are transported to market. Aziz's winning entry, BlumbangReksa, enables farmers to monitor the water condition of shrimp embankments and ponds and to access data including dissolved oxygen, temperature, humidity, pH, salinity, total dissolved solid and other parameters, in real time via text and the Internet. Kumar, co-founder of Neurosynaptic, was recognised for his company's ReMeDi (Remote Medical Diagnostics) solution, a robotic system that has been designed to conduct medical tele-examination of patients from remote locations. The product has made healthcare accessible to 45 million people in 30 of India's poorest districts.

The three winning innovations at the U.S. ISHOW, held on 14 May the District Architect Center in Washington, D.C., promised novel healthcare and energy breakthroughs. Lou Auguste was named as one of the winners for his product, Mobile Whole Slide Imaging (mWSI), a low-cost diagnostic system that uses two linear motors, a microscope and a smart phone to transmit digital images of slides to pathologists throughout the world. Kamila Demkova was recognised for Wave Carpet, a patented, flexible carpet that is capable of harvesting the power of ocean waves to generate electricity or produce fresh water. Malvi Hemani was selected as the event's third winner for TocoTrack, a low-cost tocodynamometer, or external contraction monitor, which automates the monitoring of uterine contractions for midwives. In addition, this year's "Dr. Abdi Zaltash Champion Award," recognising a new technology that shows great promise, was awarded to Jordan Garrity for the Practical Utility Platform (PUP). The award was established in memory of longtime ASME member Dr. Zaltash's commitment to ASME and support of young engineering innovators.

Brian Bosire, Henri Nyakarundi and Emily Woods were the three winners of the inaugural ISHOW in Kenya, held in partnership with the Gearbox maker space on 24 June at the Best Western Hotel in Nairobi. Bosire was recognised for his entry, UjuziKilimo, an electronic device that works with mobile phones to help rural farmers measure soil characteristics and relay that information by text to an analysis centre, which then responds with information regarding crop breed, fertilizer required, pest control, and other farm management tools. Nyakarundi's innovation, the Mobile Solar Kiosk (MSK), is a durable, portable solar-powered kiosk that can be used to charge up to 30 mobile phones or small devices at a time in both rural and urban areas. Emily Woods was named the event's third winner for her entry, Sanivation, a complete sanitation service that offers in-home toilets for families in poor urban areas and converts the waste collected from the units into charcoal briquettes that can be used for fuel.

In addition to increasing the number of competitions, the ISHOW programme, which launched in 2007, also began focusing more exclusively on hardware-led innovations this year. "There are unique challenges facing social entrepreneurs with hardware-based ventures," said Noha El-Ghobashy, ASME managing director, Global Development. "Investors tend to shy away from hardware because of the complexities associated with supply chains, with manufacturing, and with getting physical products to end users, especially in the developing world. This takes an ecosystems, and that's what we're trying

to do with the ISHOW. We're trying to raise awareness and build that ecosystem."

Funding for the prizes awarded at the three ASME ISHOWs was provided by the ASME Foundation. In addition, The Lemelson Foundation, the ISHOW Impact Inventing Sponsor, provided funding to allow ISHOW organisers to host Demo Days and create video case studies of the competitors.

For more information on the ASME ISHOWs in India, Kenya and the United States, and to learn more about the nine winning innovations, visit www.thisishardware.org.

The winners of the 2015 ASME ISHOW in Kenya, with members of the judging panel: (left to right) Dickson Ayuka, creator of Ujuzikilimo; Henri Nyakarundi, inventor of the Mobile Solar Kiosk; judge Dr. Mucemi K. Gakuru from the University of Nairobi; Sanivation team members Andrew Foote and Emily Woods; and judge Kamau Gachigi, executive director of Gearbox.

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ASME TO LAUNCH NEW VOTING PROCEDURE THIS FALL

This fall, ASME will introduce a new, online ballot that members can use for the upcoming election of Society officers, replacing the paper ballot that members traditionally received with the September issue of *Mechanical Engineering* magazine.

This September, ASME members will receive an e-mail that includes information on how to log into the ballot page, to be hosted on ASME.org, and vote for the Society's new president and members of the Board of Governors. ASME members who do not have an e-mail address, as well as members whose e-mails get bounced back, will be sent a hard copy ballot along with online voting instructions.

Members are advised to check their ASME records to ensure that their e-mail address is up-to-date or to add an e-mail address if one is currently not on file. To check on your current e-mail address or update it, please go to your Membership and Benefits page on asme.org (click here for instructions), or contact ASME Customer Care at (973) 882-1170 or (800) 843-2763. Questions about the new voting procedure should be submitted to RuthAnn Bigley, ASME Governance, by e-mail at bigleyr@asme.org.

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NASA SEEKS PROPOSALS FOR GROUND-BASED RESEARCH PROJECTS

NASA recently released a NASA Research Announcement (NRA) soliciting research proposals to conduct ground-based research using data contained in NASA's Physical Sciences Informatics (PSI) system, an online database of data from International Space Station flight experiments.

The PSI database provides investigators access to the raw and processed experimental data from past and current physical science International Space Station flight experiments. With the release of the NRA, titled "Use of the NASA Physical Sciences Informatics System," NASA hopes to promote rapid, multiple investigations resulting in more scientists participating in ISS research. For more information on the PSI system, visit http://psi.nasa.gov.

The first call for proposals, Appendix A to the NRA, solicits proposals in the five research areas – Combustion Science, Complex Fluids, Fluid Physics, Fundamental Physics and Materials Science – for which complete experimental data will available in the PSI by the proposal due date of 30 September 2015.

The call is open to two types of investigators: established researchers and graduate students. For eligibility requirements and further instructions, or to read the complete NRA, visit http://tinyurl.com/NRA-15PSI-A.

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TRAINING AND DEVELOPMENT

ASME Training & Development courses for 2015

Invest in the knowledge that will bring you results and success for your job and organisation.

Register Now for Autumn Courses!

Barcelona, Spain - 15 – 23 October 2015

- Boilers and Pressure Vessels
  - PD443 – BPV Code, Section VIII, Division 1 Combo Course (19–23 October)
    - PD442 - BPV Code, Section III, Division 1: Design and Fabrication of Pressure Vessels (19–21 October)
    - PD441 – Inspections, Repairs and Alterations of Pressure Equipment (22–23 October)
  - PD767 – Pressure Relief Devices: Design, Sizing, Construction and Maintenance (19–21 October)
  - PD616 – API 579 /ASME FFS-1 Fitness-for-Service Evaluation (19–22 October)
- Nuclear
  - PD635 – ASME NQA-1 Quality Assurance Requirements for Nuclear Facility Applications (19–21 October)
  - PD644 – Advanced Design and Construction of Nuclear Facility Components Per BPV Code, Section III (19–22 October)
- Piping and Pipelines
  - PD720 – Layout of Process Piping Systems (19–21 October)
  - PD643 – B31.3 Process Piping Code (19–22 October)
  - PD686 – Layout of Process Piping Systems and Optimisation of Plant Layouts Utilising 3D CAD/CAE Systems Combo Course (19–23 October)
  - PD721 – Optimisation of Plant Layouts Utilising 3D CAD/CAE Systems (22–23 October)
- Welding
  - PD645 – BPV Code, Section IX: Welding, Brazing and Fusing Qualifications (19–21 October)

Amsterdam, The Netherlands - 14 – 18 December 2015 *Registration opening soon!*

- Boilers and Pressure Vessels
  - PD443 – BPV Code, Section VIII, Division 1 Combo Course (14-18 December)
    - PD442 - BPV Code, Section III, Division 1: Design and Fabrication of Pressure Vessels (14-16 December)
    - PD441 – Inspections, Repairs and Alterations of Pressure Equipment (17-18 December)
  - PD616 – API 579 /ASME FFS-1 Fitness-for-Service Evaluation (14-17 December)
  - PD714 - BPV Code, Section VIII, Division 2: Pressure Vessels (14-16 December)
  - PD716 - BPV Code, Section I: Power Boilers (14-17 December)
- Nuclear

- PD389 - Nondestructive Examination - Applying ASME Code Requirements (Section V) (14-16 December)
- PD675 - ASME NQA-1 Lead Auditor Training (14-17 December)

- Piping and Pipelines
  - PD643 – B31.3 Process Piping Code (14-17 December)
  - PD642 - ASME B31.1 Power Piping (14-17 December)

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Train your staff at your choice of location, on your preferred dates, with a corporate programme tailored to your specific company requirements.

All ASME Continuing Education training courses can be arranged exclusively for your staff and customised to your company's needs. Courses will be delivered by uniquely qualified instructors selected to match your needs and organisational style and approach – most of them are involved in the ASME Code committees who create and update ASME standards.

Save time and money by hosting a course at your company building or at another venue of your choice. Encourage ongoing learning with Continuing Education Units and a complimentary one-year ASME membership.

The ASME In-Company Training service offers you:

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- Courses that accommodate your schedule and are held at your facility
- Convenient and cost-effective educational programmes- Opportunities to train your staff in full confidence – customisation, results, privacy, quality, value

For more information on in-company training programmes and to discuss your needs in detail, please contact: Murat Dogru, Community and Corporate Relations Manager Email: DogruM@asme.org • Tel: +32 2 743 4427

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ASME PUBLICATIONS

Book of the month

Elements of Mechanical Design
By James G. Skakoon

From one of the authors of The Unwritten Laws of Engineering and The Unwritten Laws of Business, this concise and readable book is an excellent primer or refresher for any professional interested in the basic principles and practices of good mechanical design.

In this handy and unique volume the author uses his own experience, along with input from other expert designers, to explicitly state design principles and practices. Readers will not have to discover these principles on their own and will be able to apply these fundamental concepts throughout their designs.

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ASME EMEA OFFICE
Avenue de Tervueren 300
B -1150 Brussels, Belgium
Tel: +32 2 743 1543
info-europe@asme.org
http://www.asme.org/groups/districts-local-sections/europe-middle-east-africa