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# INSTRUMENTATION AND MEASUREMENT SOCIETY NEWSLETTER

September 2015

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**IEEE Instrumentation & Measurement Magazine**

## About the IEEE Instrumentation and Measurement Society Newsletter

Engineers today start their careers with excellent technical skills and subject matter expertise. The IEEE Instrumentation and Measurement (I&M;) Newsletter includes time sensitive news useful to its members and highlights content of the current issue of *IEEE Instrumentation & Measurement Magazine*.

## I&M Conference Calendar

We hold numerous workshops throughout the year. Please refer to the I&M; [Conference website](#) for a full listing. For more information on any of the conferences, please contact [Alessandra Flammini](#), VP of Conferences for the I&M; Society.



The 2015 [IEEE International Conference on Imaging Systems & Techniques](#) (IST) will be held in Macau, China 16-19 September 2015. For registration information and conference announcements, please visit the [conference website](#).



The 2015 [IEEE International Workshop on Applied Measurements for Power Systems](#) (AMPS) will be held in Aachen, Germany 23-25 September 2015. For registration information and conference announcements, please visit the [conference website](#).



The 2015 [IEEE International Workshop on Haptic Audio-Visual Environments and Games](#) (HAVE) will be held in Ottawa, Canada on 11-12 October 2015. For registration information and conference announcements, please visit the [conference website](#).

The latest issue of [IEEE Instrumentation & Measurement Magazine](#) is in the mail and is retrievable now from IEEE Xplore, the IEEE online digital library.

All *IEEE Instrumentation & Measurement Magazine* subscribers can access the online edition using their [IEEE Account](#).

 [Image of August 2015 IEEE I&M Magazine](#)

Feature articles in this issue include:

- "A testbed for implementing prognostic methodologies on cryogenic propellant loading systems"
- "What! The Ell? [Basic Metrology]"
- "An AI-ESTATE conformant interface for net-centric diagnostic and prognostic reasoning"
- "Tridiagonal systems, and the evaluation of polynomials revisited [CRUNCH]"
- "Using temporal causal models to isolate failures in power system protection devices"
- "Give me power (supplies) [Jack Dyer's Clinic]"
- "More about the verdict in the L'Aquila Earthquake Trial [Legal Metrology]"

### Frank Reyes - In Memoriam

I&M; continues to remember our dear friend and colleague, Mr. Frank Reyes. Please [view](#) the In Memoriam article published in the I&M; magazine.

### IEEE Senior Membership

IEEE Senior Membership is the highest grade for which application may be made and requires experience reflecting professional maturity. Candidates need to be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields in



The [2015 International IEEE Symposium on Precision Clock Synchronization for Measurement, Control and Communication](#) (ISPCS) will be held 11-16 October 2015 in Beijing, China. For registration information and conference announcements, please visit the [conference website](#).



The 2015 [IEEE International Workshop on Measurement and Networking](#) (M&N;) will be held in Coimbra, Portugal on 12-13 October 2015. For registration information and conference announcements, please visit the [conference website](#).



[IEEE AUTOTESTCON 2015](#) will be held 2-5 November at the National Harbor, in MD, USA. For registration information and conference announcements, please visit the [conference website](#).



The [2016 IEEE First International Conference on Control, Measurement and Instrumentation](#) (CMI) will be held 8-10 January 2016 at Kolkata, India.

Have a conference you'd like advertised in the I&M; Society Newsletter? Contact [Lauren Stockman](#) for details on how to have it included.

## I&M; Sponsored Conferences Currently Soliciting Paper Submissions



The 2016 IEEE Sensors Applications Symposium (SAS) will be held in Catania, Italy 20-22 April 2016. [View the SAS Call for Papers](#). Paper submission deadline is 26 October 2015.

2016 IEEE International Symposium on

**MeMeA**

May 12-14, 2016 | Benevento, Italy

Medical  
Measurements  
and Applications

professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years.

An [application for Senior Membership](#) requires three references unless nominated by a Senior member, and in that case requires two references.

Congratulations to the newly-elected I&M Senior members for 2015 thus far: Eduardo Cano, Paul Erickson, Joseph Kaiser, Chetan Kulkarni, Iman Morsi, Tom Nelson, Jomar Ochoco, Jose Pelegri Sebastia, Lihui Peng, Arash Samani, Sarah Seguin, Janusz Smulko, Jesus Urena, Ramli Adnan, Ioannis Gonos, James Henry, Barry Male, Carlo Muscas, Viviana Vladutescu, Detlef Pape, Herve Saint-Jalmes, Jeffrey Miller, Marc Bossche, Ilena Baran, Dwight Clayton, Juan Anzurez-Marin

The 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA) will be held in Benevento, Italy 12-14 May 2016. [View the Call for Papers](#). Paper submission deadline is 10 January 2016.



The 2016 [IEEE International Instrumentation and Measurement Technology Conference \(I2MTC\)](#) will be held in Taipei, Taiwan 23-26 May 2016. [View the Call for Tutorials](#). Submit your proposal no later than 5 October 2015. [View the Call for Papers](#). Paper submission deadline is 15 January 2016.

Have a conference you'd like advertised in the I&M; Society Newsletter? Contact [Lauren Stockman](#) for details on how to have it included.

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## Technical Committees

I&M; has 20 different Technical Committees (TC). Our TC's define and implement the technical directions of the Society. As a fundamental element of the Society all members are invited - and encouraged - to participate in one or more of its technical committees. Please contact Jorge Daher, VP Technical and Standards Activities, at [j.daher@ieee.org](mailto:j.daher@ieee.org) or any member of the Technical and Standards Activities Committee, if you are interested in membership in one or more of our TCs. To view the complete list of TCs, visit our [website](#).

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## Award Nominations

### Best Application in Instrumentation & Measurement Award

The Best Application in Instrumentation & Measurement Award recognizes an individual whose idea applies measurement concepts or instrumentation technology in a novel way to benefit society. The application must be a working solution to an engineering need or problem. Nominations are due by 1 October 2015.

To nominate, please [visit our website](#).

### Faculty Course Development Award

The Faculty Course Development Award is to support and encourage faculty members to develop a new course or significantly revise an existing course with specific focus on Instrumentation and/or Measurement, taught in an accredited (in accordance to the accepted rules of the country of applicant) engineering, physics, or science curriculum. Presentation will be made at the Awards Luncheon at the IEEE International Instrumentation and Measurement Technology Conference (I2MTC). Nominations are due by February 1, 2016.

To nominate, please [visit our website](#).

### Graduate Fellowship Award

The purpose of the grant is to support and encourage graduate-level research in the area of instrumentation and measurement. Nominations are due by 1 February 2016.

To nominate, please [visit our website](#).

### **2017 IEEE Joseph F. Keithley Award in Instrumentation & Measurement**

The IEEE Joseph F. Keithley Award in Instrumentation & Measurement is presented for outstanding contributions in electrical measurements. It was established in 2001 and was presented for the first time in 2004. Nominations for the 2017 IEEE awards cycle are currently being solicited and the deadline is 31 January 2016. For more information, please refer to the [website](#).

To nominate, please [visit our website](#).

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## **2016 IEEE Joseph F. Keithley Award in Instrumentation & Measurement Announced**

Samuel Benz, NIST Fellow, National Institute of Standards and Technology, Boulder, Colorado, USA, has been awarded the IEEE Joseph F. Keithley in Instrumentation & Measurement Award. He received this award "for creating and disseminating quantum-based superconducting voltage standards that form the basis for worldwide precision voltage measurements."

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## **Attention Book Authors**

Advertise your book on the I&M; website! The Instrumentation and Measurement Society would like to provide a list of book titles written by IMS authors on the I&M; [website](#). The Society believes that books are an excellent avenue to disseminate the most advanced state-of-the art within and outside of the community and that the website will help to spread the good news about the hard work of the authors. The guidance here govern which titles will be displayed. We look forward to your contributions! Visit our [website](#) for terms and guidelines.

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## **I&M; With Smart Grid**

Instrumentation and Measurement Society is one of the 13 partners within the IEEE Smart Grid community! Our members have free access to the First IEEE Smart Grid Newsletter Compendium "[Smart Grid: The Next Decade](#)," the first of its kind promotional compilation featuring 32 "best of the best" insightful articles from recent issues of the IEEE Smart Grid Newsletter.

Currently the IEEE Smart Grid Operations Committee has several subcommittees (R&D;, Education, Standardization etc.) and volunteers from our Society are needed to contribute to a better understanding of the role of measurements in shaping the future grids. Please contact Mihaela Albu at [albu@ieee.org](mailto:albu@ieee.org) for further details.

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## **Kim Fowler Gives Instrumentation Tutorial in Malaysia**

Kim Fowler spoke to a group of 16 colleagues and graduate students in Malaysia on Saturday, 8 August. He talked for two and a half hours on the basic principles of

measurement and instrumentation and some practical applications for developing instruments. The venue was the University of Technology Malaysia or UTM. His host was Professor Sheroz Khan from the International Islamic University Malaysia. The audience comprised members of Professor Khan's research group and of the local IEEE Chapter. Together they provided an excellent venue with lovely food for a break and lunch. [Read more](#).

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## AdCom Election Results - Term 2016-2019



[Octavia Dobre](#)

Technical Committee Co-Chair



[Kristen Donnell](#)

I&M; AdCom (2012-2015); Distinguished Lecturer Program Chair



[Christophe Dubois](#)



[Chi Hung Hwang](#)

I2MTC Conference Chair (2016); TC-18-Member

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