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INSTRUMENTATION & MEASUREMENT SOCIETY NEWSLETTER

3rd Qtr 2018

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About the IEEE Instrumentation & Measurement Society Newsletter

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

Welcome Message from I&M Society President



So far, 2018 has been a wonderful experience for me as President of the IEEE Instrumentation and Measurement Society. I met many of you at the International Instrumentation and Measurement Technical Conference in Houston. I took pictures with Chapters from Mexico, China, and Brazil. I talked with many individuals about the future of I&M.; The conference was a success in regional diversity of attendance and remains our flagship conference.

I was also privileged to visit more of you at the Medical Measurements and Applications Symposium in Rome. This has become our second largest conference (of the dozen we offer as financial or technical sponsors) and it was an exciting meeting. I met Chapters from India, China, Canada, the USA and many European countries. Your participation made my experience wonderful with paper sessions, poster sessions and one on one conversations. I was particularly touched by the offers to host a visit for me at your university or company. I'm eager to meet more members in the next year or two.

This year is chronologically coming to an end, but there is a lot left to happen in the world of I&M.; Our 3rd quarter of regional and specialty conferences is underway. They offer you a more intimate and perhaps less expensive opportunity to discuss instrumentation and measurement with colleagues in your technical specialty. Check out our offering on the [website](#). It is also never too early to start planning for next year with I2MTC in New Zealand next May or MeMeA in Istanbul.

Finally, it is with great pleasure that I tell you that our publications (*Transactions on Instrumentation & Measurement* and the *I&M; Magazine*) have increased their ratings again this year. TIM is now the number one place to publish your scholarly papers in the I&M; field. The I&M; Magazine is your source for cutting edge practical articles in our field.

these groups, please consider doing so.

IEEE Instrumentation & Measurement Magazine

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 Feb 2017 IEEE I&M Magazine](#)

Features in our latest articles include:

- ["Male-dominated stem disciplines: How do we make them more attractive to women?"](#)
- ["Integrating the engineering design process into K-12 schools: The Kansas experience"](#)
- ["Instrumentation and measurement in a first-year engineering program"](#)
- ["Discovering the real world hands-on in the classroom"](#)
- ["Analog Computers \[Basic metrology\]"](#)
- ["Igniting STEM in Kansas City"](#)
- ["STEM Education in Flanders: How STEM@school Aims to Foster STEM Literacy and a Positive Attitude towards STEM"](#)
- ["Future trends in early diagnosis for cognition impairments in children based on eye measurements"](#)

Have a wonderful remainder of 2018 and I hope to meet you personally in the next year.

Regards,
J. Max Cortner
President of the IEEE Instrumentation and Measurement Society 2018-2019

Benefits of I&M Membership

Our mission statement reads, "The Instrumentation & Measurement Society Administrative Committee strives to provide the most comprehensive and high-quality services to our members and related professionals." The I&M Society has a wide range of activities and benefits to offer our members. These are detailed on our [website](#) highlighting the available services and products.

There also are many opportunities for our members to become involved in volunteer leadership positions that help promote the instrumentation and measurement profession. We invite you to become involved today!

I&M Awards & Recognitions:

The IEEE Instrumentation & Measurement Society (I&M) is soliciting nominations for its Society and other awards. To view the full detailed listing of each award please visit our [Awards page](#) on the website.

Nominations are due on varying dates, so please carefully refer to each specific award listing. Nominators should utilize the forms associated with each award description found on the [website](#).

Award Nominations due by 1 September 2018:

J. Barry Oakes Award
[Details](#) | [Nomination Form](#)

Outstanding Young Engineer Award
[Details](#) | [Nomination Form](#)

Distinguished Service Award
[Details](#) | [Nomination Form](#)

Technical Award
[Details](#) | [Nomination Form](#)

Career Excellence Award
[Details](#) | [Nomination Form](#)

Award Nominations due by 30 September 2018:

Outstanding Chapter Award
[Details](#)

Best Student Chapter Award
[Details](#)

Award Nominations due by 1 October 2018:

Best Application in Instrumentation & Measurement
[Details](#) | [Nomination Form](#)

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 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.

Award Nominations due by 31 December 2018:

Outstanding Technical Committee Award

[Details](#) | [Nomination Form](#)

For more information, please visit the [Awards](#) page on the I&M Website.



Reza Zoughi re-elected to IEEE PSPB

Congratulations to [Reza Zoughi](#), I&M Senior Past President, who has been re-elected to IEEE Publications Services and Products Board (PSPB) for another three-year term (2019-2021)!



2019 IEEE Joseph F. Keithley Award in Instrumentation &

Measurement

Congratulations to the 2019 IEEE Joseph F. Keithley Award Winner, Alan S. Finkel (FIEEE)-Chief Scientist of the Commonwealth of Australia, Canberra, Australia Citation "For contributions to high-speed, accurate measurement of electrical transmission in the brain and other biological cells."

I&M Awards at I2MTC 2018



The 2018 IMS Awards Ceremony was held on May 17 at the IEEE I2MTC in Houston, TX, USA. To see a recap pictorial of all the awards given, [click here](#).

(Pictured) Max Cortner presenting David W. Allan with the 2018 IEEE Joseph F. Keithley Award in Instrumentation and Measurement.

I&M Publications News

Spotlight on a PSBP Report and Publishing by I&M Members

Over the last several years, the IEEE Publication Services and Products Board (PSBP) has developed a report that measures the time from submission to online publication of every article in a journal. The resulting submission to e-publication report was distributed for the first time in October 2009. It is designed to provide information about how long it takes to publish journal articles from original submission to the journal for review to the first date of publication in IEEE *Xplore*, and the current report contains 143 journals. Recently released data from the journal content posted to IEEE *Xplore* during Q1-2018 are discussed next. For the *IEEE Transactions on Instrumentation & Measurement*: (1) average weeks from date of submission for review to first decision was 8.4 weeks, and (2) average weeks submitted to online post was 28.5 weeks. Judging from these two key metrics and the other 143 publications listed in the report, it's clear that the *IEEE Transactions on Instrumentation & Measurement* is one of the most timely publications. Looking forward, the *IEEE Transactions on Instrumentation & Measurement* looks forward to your new manuscript submissions and

IEEE TIM is the Number 1 Journal in the Area of General Instrumentation and Measurement

We are pleased to announce that according to the 2017 Journal Citation Report, *IEEE Transactions on Instrumentation & Measurement* (TIM) is the number 1 journal in the area of general Instrumentation and Measurement (I&M;) with an Impact Factor of 2.794. Its Impact Factor without Self-Cites of 2.201 and its 5-year Impact Factor of 2.711 are also the best among general I&M; journals. Furthermore, TIM is the only general I&M; journal in Quartile 1 (Q1) of the Instruments and Instrumentation category. In addition, according to the 2017 Scopus report, TIM is the number 1 general I&M; journal with a CiteScore of 3.47 and SJR of 0.938. In terms of timeliness, TIM's average duration of submission-to-first-decision and submission-to-online-publication of 57 days and 26 weeks, respectively, are among the very best in all of IEEE journals.

IEEE TIM is the flagship publication of the IEEE Instrumentation & Measurement Society (I&M) and publishes papers that address innovative solutions to the development and use of electrical and electronic instruments and equipment to measure, monitor and/or record physical phenomena for the purpose of advancing measurement science, methods, functionality and applications. For more details, including submission instructions, please visit the [website](#).

IEEE TIM Top Cited and Downloaded Papers

To view the top cited and downloaded IEEE TIM Papers, [click here](#).

I&M Magazine's 2017 Impact Factor

The *Instrumentation & Measurement Magazine's* 2017 Impact Factor went up to 1.9!

The evolution of the *I&M Magazine's* impact factor is listed below:

2012: 0.556

2013: 0.474

2014: 0.538

2015: 0.759

2016: 1.438

2017: 1.9

For additional information about the I&M; Magazine, [click here](#).

I&M Conference Committee News

In May we had a very successful I2MTC conference in Houston, TX, USA. Besides the regular technical sessions and social events many new initiatives and ideas were introduced. Some of these initiatives included: TIM Special Sessions, which allowed authors to present, discuss, and promote research results of their recently accepted TIM published papers; Patent Sessions, which allowed members to promote their innovations to Industry colleagues for possible investment; Live demonstrations for IEEE International Sensors and Measurement Student Contest, which provided an outlet for our younger generation to demonstrate their passions for developing new systems for measurements and applications; and lastly, there were sessions arranged entitled "Hot off the Labs: Recent Results," which allowed authors who were unable to meet the regular submission schedule a chance to present their newest results. Each of these newer initiatives will be reviewed and discussed to determine whether they will be

incorporated into future I&M; Financially Sponsored Society Conferences.

The Conference Committee would like to continue working with technical committees and local chapters who can help to identify new conference opportunities, as well as organizing and improving the quality of already existing conferences. Last year the Conference Committee Chair attended both the chapter chair and technical committee chair summits. While at these summits, the I&M; conference sponsorships and policies were reviewed and the requirements for technical and financial conference sponsorship within I&M; were discussed. It is our hope that the cooperation amongst the I&M; Conference Committee, technical committees, and local chapters will continue to strengthen.

For 2018 there are a total of twenty conferences sponsored by I&M;, including nine financially sponsored conferences and eleven technically sponsored conferences. For 2018, five new technical events have been added, and so far for 2020, one new technical event has been added. We are planning to continue to provide conferences with emerging technologies to benefit the I&M; Society.

During the next quarter, the I&M conference management guidelines will be reviewed and revised - if you have any suggestions or concerns regarding the I&M Conference guidelines, please contact me, [Chi Hung Hwang](#). Additionally, if you'd like to help organize an existing conference, or propose new conference ideas, please feel free to contact me.

Sincerely,
Chi Hung Hwang
VP of Conferences I&M Society

I&M Conference Calendar

We hold numerous conferences throughout the year. Please refer to the I&M [Conference listing](#) to see a full listing.

For more information on any of the conferences, please contact [Chi Hung Hwang](#), VP of Conferences for the I&M Society.



The [2018 IEEE AUTOTESTCON](#) will be held at the Gaylord National Convention Center in National Harbor, MD, USA on 17-20 September 2018.

AUTOTESTCON is the world's premier conference that brings together the military/aerospace automatic test industry and government/military acquirers and users to share new technologies, discuss innovative applications, and exhibit products and services. It is sponsored annually by IEEE.

For more information, please visit the [conference website](#).



The [2018 IEEE International Symposium on Haptic Audio-Visual Environments and Games \(HAVE\)](#) will be held on 20-21 September 2018 in Dalian, China.

Important Dates:

Notification of Acceptance - 1 August 2018
Submission of Camera Ready Version - 15 August 2018
Registration - 31 August 2018
For more information, visit the [conference website](#).



The [9TH IEEE International Workshop on Applied Measurements for Power Systems \(AMPS\)](#) will be held on 26-28 September 2018 at the University of Bologna, Bologna, Italy.

For more information, visit the [conference website](#).



[ISPCS 2018](#) will be held on 30 September - 5 October 2018 at CERN, Geneva, Switzerland

For more information, visit the [conference website](#).



The [2018 IEEE International Conference on Imaging Systems and Techniques \(IST\)](#) will be held on 16-18 October 2018 at Krakow, Poland

Important Date:

Full Paper Deadline - 15 August 2018

For more information, visit the [conference website](#).



The [2019 IEEE International Instrumentation & Measurement Technology Conference \(I2MTC\)](#) will be held on 20-23 May 2019 in Auckland, New Zealand.

Important Date:

Special Session Proposal Deadline - 31 August 2018

Full Paper Submission - 5 November 2018

Review Notification - 21 December 2018

Submission of Revised Paper - 4 January 2019

Final Notification Deadline - 4 February 2019

Final Manuscript Submission for ALL papers - 8 February 2019

For more information, visit the [conference website](#).

2020 IEEE I2MTC - Save the date

The 2020 IEEE International Instrumentation & Measurement Technology Conference (I2MTC) will be held on 25-28 May 2020 in Dubrovnik, Croatia. Stay tuned for more information!

2021 IEEE I2MTC

The location for the **2021 IEEE International Instrumentation & Measurement Technology Conference** (I2MTC) has now been selected! The 2021 Conference will be held in Glasgow, Scotland. Stay tuned for more information!

Please note: the following I&M Society Technically Co-Sponsored Conferences are approaching.

[2018 IEEE International Flexible Electronics Technology Conference \(IFETC\)](#)

Ottawa, ON, Canada | 7-9 August 2018

[The International Symposium on Instrumentation Systems, Circuits and Transducers - INSCIT](#)

Rio Grande do Sul, Brazil | 27-31 August 2018

[1st International Symposium on Sensing and Instrumentation in IoT Era](#)

Shanghai, China | 6-7 September 2018

[Ninth International Conference on Indoor Positioning and Indoor Navigation \(IPIN 2018\)](#)

Nantes, France | 24-27 September 2018

[18th Annual Mediterranean Microwave Symposium \(MMS 2018\)](#)

Istanbul, Turkey | 31 October - 2 November 2018

Other Conferences of Interest:

[4th IEEE International Symposium on Systems Engineering \(ISSE 2018\)](#)

Rome, Italy | 1-3 October 2018

Have a conference you would like advertised in the I&M Society Newsletter? Contact [Jane Buckingham](#) for details on how to have it included.

Membership Committee News

2018 Women in Instrumentation and Measurement Panel

The 2018 version of the Women in Instrumentation and Measurement (WIM) Panel took place this past May at I2MTC. This year's Panel featured Keynote Speaker Dr. Elizabeth Orwin, the James Howard Kindelberger Professor of Engineering and Department Chair at Harvey Mudd College, along with Panelists Ms. Alice Wang, a senior software engineer at Schlumberger and longtime member of IEEE WIE, Ms. Marie Laplante, a chemical engineer and Fellow of the Society of Women Engineers, and Dr. Stephen Dyer of Kansas State University. Dr. Orwin spoke to the group about the progress Harvey Mudd College has made in increasing the number of underrepresented participants in their science and engineering programs. The Panelists shared their successful experiences in mentoring and outreach, in particular with younger age groups. Discussion with the audience followed. As Panel Chair, it was truly my honor to meet and learn from these influential people. Plans are already underway for the 2019 Panel. For more information or to get involved, please contact the WIM Panel Chair, [Kristen Donnell](#).

Students at I2MTC

We would like to personally thank all the students who participated in the 2018 I2MTC! While at the conference, all attending students got the opportunity to tour two industry-leading facilities (ABB Automation and Power Center, and The Eaton Experience). These technical visits highlighted many new uses for instrumentation and measurement technologies that students are developing, gave insight to the industrial side of measurement technology, and what the future demands of the workforce would likely be for all things regarding instrumentation measurement.

There were also numerous papers, posters, and awards presented/handed out at this year's I2MTC conference. Here are some of the award winners:

- **IEEE Graduate Fellowship Award:** Liming Chen, Jiali Wu, and Chen Zhu
- **Best Student Poster:** Katelyn Brinker

The I&M; Society would also like to invite all students to participate in the 2nd annual IEEE International Sensors and Measurement Student Contest! Please see the website for more information, [click here](#).

Education Committee News

2018 Distinguished Lecturer Program Evaluations

The 2018 Distinguished Lecturer Program (DLP) evaluations were held this past May at I2MTC. The Evaluation Committee had the pleasure of meeting 10 highly qualified expert applicants from a variety of Instrumentation and Measurement-related fields. From this pool, the Evaluation Committee was pleased to welcome three of the applicants to serve as Distinguished Lecturers for a three-year term: Prof. Degang Chen, the Jerry R. Junkins Chair Professor of the Electrical and Computer Engineering Dept. at Iowa State University, Prof. Jacob Scharcanski, a Full Professor in the Computer Science Dept. at the Federal University of Rio Grande do Sul (UFRGS), Brazil, and Prof. Reza Zoughi, the Schlumberger Distinguished Professor in the Electrical and Computer Engineering Dept. at Missouri University of Science and Technology. Please see the [society website](#) for more information on the full DLP cohort and their areas of expertise. For questions or to request a DL, please contact the DLP Chair, [Kristen Donnell](#).

Technical Committee News

I&M; has 20 different Technical Committees (TC). Our TCs 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 **Ruqiang Yan**, VP Technical and Standards Activities, at ruqiang@seu.edu.cn or any member of the Technical and Standards Activities Committee, if you are interested in membership in one or more of our TCs. You can also fill the [application form](#) and send to the chair of your interested TCs. To view the complete list of TCs, visit our [website](#).

Recognition of Technical Achievements and Innovations - Announcement of Issued Patents

I&M recognizes Society members' technical achievements and innovations that have resulted in issued patents during the current calendar year. If you have already been issued a patent in 2016/2017 we would like to add it to the list. To do so please fill out

the form [here](#) and we will add the information to the website. In addition, if you are issued a patent in the future please use the same link to inform us and we will be happy to add it to the list as we intend to continuously update the information in this list.

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 I&M; 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 below will govern which titles will be displayed. We look forward to your contributions! Visit our [website](#) for terms and guidelines.

To see the full list of 2018 I&M Officers, please click [here](#).

To see the full list of I&M AdCom members, please click [here](#).

To see the full list of additional AdCom appointments, please click [here](#).

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