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# IEEE UFFC Society Newsletter

January-August 2014

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Editor-in-Chief: R. Michael Garvey

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Transactions on UFFC

## About the IEEE UFFC-S Newsletter

The Ultrasonics, Ferroelectrics and Frequency Control (UFFC-S) Society Newsletter includes time sensitive news useful to UFFC members and highlights content from the current issue of *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*.

## President's Corner

by Jian-yu Lu, President UFFC



IEEE is the largest technical society in the world. It consists of more than 40 societies and councils with a membership over 400,000. The IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society (UFFC-S), with more than 2,000 members, is one of the IEEE societies.

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## 2014 International Symposium on Applications of Ferroelectrics

by Xiaoli Tan, Associate Newsletter Editor for ISAF



On May 12-16, the International Symposium on the Applications of Ferroelectrics (ISAF), International Workshop on Acoustic Transduction Materials and Devices (IWATMD) & Workshop on Piezoresponse Force Microscopy (PFM) met jointly in State College, Pennsylvania on the campus of The Penn State University. Professor Susan Trolier-McKinstry was the General Chair.

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## Women In Engineering Event at ISAF 2014

by Reagan Belan, UFFC AdCom Student Representative for Ferroelectrics



In May, 2014, Penn State hosted Joint IEEE International Symposium on the Applications of Ferroelectric, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy. One of the personal highlights is the Women in Engineering (WIE) event that accompanies the official program of the conference and is hosted by IEEE UFFC Society President Dr. Jian-yu Lu. Over the past

The October Issue of [Transactions on UFFC](#) is in the mail and is retrievable now from IEEE *Xplore*, the IEEE online digital library.

All UFFC members can access the online edition using their [IEEE Account](#).



Most downloaded articles:

- [Ultrafast imaging in biomedical ultrasound](#)
- [Single-chip CMUT-on-CMOS front-end system for real-time volumetric IVUS and ICE imaging](#)
- [Ultrasound-guided photoacoustic imaging: current state and future development](#)
- [Fast 2-D ultrasound strain imaging: the benefits of using a GPU](#)
- [Acoustic radiation force elasticity imaging in diagnostic ultrasound](#)

For Newsletter comments, suggestions, critique, etc. contact Mike Garvey [mgarvey@ieee.org](mailto:mgarvey@ieee.org)

century, women have made great advancements in the science, technology, engineering & math (STEM) fields. While it is positive to see women's presence increasing in both a research and industrial settings, there is still a large underrepresentation in STEM fields and many various issues that still persist for women in sciences.

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## [2014 International Frequency Control Symposium](#)

by Sheng-Shian Li, Associate Newsletter Editor for IFCS



It was my great pleasure to serve as the Chair of the Local Organizing Committee for 2014 International Frequency Control Symposium (IFCS'14) in Taipei International Convention Center (TICC) from May 19th to 22nd. This position also significantly helps me, now as an Associate Newsletter Editor of Frequency Control, to report the details on the IFCS'14 for the UFFC news in this year. I have to admit this is not an easy job since it is the first time the IFCS was held outside of the US in its 67-year history. The General Chair, Dr. Wan-Thai Hsu, and I started to prepare for this event in 2012.

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## [UFFC AdCom Meeting](#)

by Mike Garvey, UFFC Senior Past President

The UFFC AdCom met at The Pennsylvania State University in State College, Pennsylvania on May 12, 2014. The meeting was attended by 43 people, including 12 Officers, 9 Elected Members and 22 others. A total of 8 people attended by WebEx. This was the first meeting in which the AdCom benefitted from the recently purchased UFFC audio visual equipment, including two Polycom speaker phones, a 3000 lumen projector and laptop computers. IEEE currently provides free WebEx access to IEEE Societies and Councils.

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## [Van de Vaart to Emeritus AdCom](#)



In mid-December, the UFFC AdCom voted (by email) to confirm the appointment of Herman van de Vaart to the status of Emeritus Member of AdCom effective Jan 1, 2014. Herman has served the UFFC (and before that the IEEE Sonics and Ultrasonics Group, G-SU) for nearly 50 years. He joined the IEEE in 1965 and was elevated to the status of IEEE Fellow in 1988 for his work in surface acoustic wave delay line technology.

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## [UFFC Distinguished Lecturers](#)

by Takaaki Tsurumi and Roman Maev



The Distinguished Lecturer Program is an important feature of UFFC. A Distinguished Lecturer is chosen at each Fall AdCom meeting to serve an 18-month period beginning on July 1 of the following year. There are, at present, two UFFC Distinguished Lecturers:

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## **[News from the Transaction on Ultrasonics Ferroelectrics and Frequency Control](#)**

by **Steve Freear, Editor in Chief, Transactions UFFC-S**



### **Highly Cited Emails**

The Editor-in-Chief has been reviewing practices from other publishers. This led to the implementation of bi-monthly emails relating to highly cited articles and an alternating bi-monthly email conveying interesting articles titled "editor's selection". These are also catalogued on the society webpage. The highly cited papers are selected according to the monthly weighted citations of papers published within the last 1.5 years. Citation reports from Web of Science (Thomson Reuters), Scopus (Elsevier) and Google Scholar divided by the number of months that a publication was available online is used to rank the papers. As the number of citations does not always reflect the quality of a publication, another email is distributed bi-monthly comprising the editor's selection of interesting articles.

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## **[IUS Standing Committee](#)**

The Standing Committee of the Ultrasonics Group ("UltraCom") met on May 24 in Chicago, Illinois. There were six voting members present; nine non-voting attendees also attended.

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## **[ISAF Standing Committee](#)**

The Ferroelectrics Standing Committee ("FerroCom") met on May 15, 2014; twenty six members were present as were three guests.

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## **[IFCS Standing Committee](#)**

The May 19 meeting of the Frequency Control Standing Committee convened in Taipei, Taiwan with 13 attendees present and one remote participant. Final financial results for the 2013 Symposium were presented. An update on the 2014 Symposium, commencing the next day, were presented and discussed. Notably, this is the first IFCS at which the pre-symposium Proceedings were completed; the process worked very well, including use of Crosscheck for detection of plagiarism. Some refinement is required to address very short papers, essentially little more than abstracts.

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## **[UFFC Strategic Plan](#)**

by **Mike Garvey, Chair UFFC Strategic Planning**

As Chair of the Strategic Planning Committee for UFFC, I have taken a two phase process: I) gather the individual strategic plans from the three UFFC groups in year one and II) in year two, meld, to the extent possible, the individual strategic plans into a comprehensive UFFC Strategic Plan. I have asked the Vice Presidents of the three groups to provide their strategic plans.

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## **[A Report on IEEE and UFFC Society Publications](#)**

**by John Vig**

**UFFC-S VP, Publications and AdCom Member Emeritus**



The following is based on the presentation John Vig made to the UFFC-S Administrative Committee (AdCom) in May 2014. Some of the information consists of updates to the report, "[UFFC-S Statistics/Metrics](#)," that appeared in the September/October 2012 issue of the UFFC-S Newsletter.

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## **[Student Member Only Photo Competition](#)**

**by Andreja Erbes, Senior Student Representative for Frequency Control**

This year the UFFC Society is organizing a photography competition, open to all student members of the UFFC with the following cash prizes:

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## **[Draft Standard on Piezoelectric Crystals](#)**

**by Zuo-Guang Ye, Working Group Chair**



Request for Comments and Balloters "Draft IEEE Standard for Relaxor-Based Piezoelectric Single Crystal Materials for Transducer and Actuator Applications".

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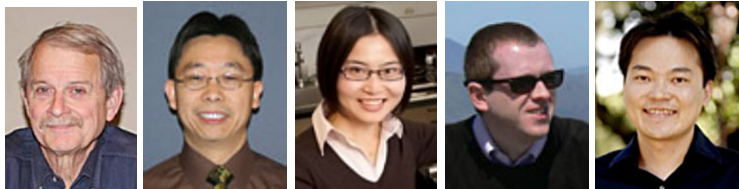
## **[New Fellow On-line System](#)**

**by Rosann Marosy, Manager, IEEE Fellow Activities**

The task of nominating a Senior Member for Fellow grade got easier with the new Fellow On-line System. Multiple upgrades were incorporated, but three main enhancements will please nominators. After a nominator logs in the system, the first requirement will be to input the nominee's member number. Entering this information will immediately let the nominator know if the nominee meets the requirements of being an active IEEE Senior or Life Senior Member and if the nominee has been a member in good standing for five years or more. If a nominee is ineligible, the system will prevent the nominator from filling out the entire form and avoid any unnecessary time.

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## **[Newsletter Editors](#)**



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