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IEEE ULTRASONICS, FERROELECTRICS,
AND FREQUENCY CONTROL SOCIETY
———— Newsletter ————



UFFC-S Newsletter - May 2023



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GOOD NEWS



UFFC-S member, Sheng Xu, lab featured in the following article.

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UFFC SOCIETY UPDATES

Ongoing Calls for Volunteers



UFFC-S is seeking dedicated volunteers to offer their time and service in positions within the IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society.

If you are a committee chair and would like to submit an open volunteer application to be posted on the Volunteer Opportunities page, please click [here](#).

[Visit the UFFC-S Volunteer Opportunities Page](#)

[The IEEE Microsystems - Boston Chapter](#)

Sensors Council was newly formed in the Boston region, USA. The objective of the chapter is to bring together microsystems (microscale ultrasonics, MEMS, sensors, microelectronics, photonics, microfluidics, and power electronic device) researchers and enthusiasts from academia and industry, and to enable stronger collaboration amongst the community through technical talks, learning, and other networking events.

Dr. Adarsh Ravi, an active member of the IEEE-UFFC society, is the Founding Chair of the chapter. To learn more about the chapter and to get involved in the activities, please reach out to Dr. Ravi at ieee.mems.boston@gmail.com.

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SYMPOSIUMS

Upcoming Symposia



The **2023 IEEE International Symposium on Applications of Ferroelectrics (ISAF)** in **Cleveland, Ohio** from **23 - 27 July 2023**.

For more information, important dates, and the call for papers, please visit the ISAF 2023 website below.

[ISAF 2023 Website](#)

A stylized line-art illustration of a city skyline. From left to right, it features a bridge with a single pylon, a tall clock tower, a large domed cathedral, a modern building with a grid facade, and a tall skyscraper with a green facade.

IEEE
IUS 2023
International Ultrasonics Symposium

The **2023 IEEE International Ultrasonics Symposium (IUS)** in **Montreal, Canada** from **3-8 September 2023**.

For more information, important dates, and the call for papers, please visit the IUS 2023 website below.

[IUS 2023 Website](#)



The **2024 Ultrasonics, Ferroelectrics, and Frequency Control Joint Symposium** in Taipei, Taiwan from **22-26 September 2024**.

For more information, please visit the UFFC-S website below.

The 15th International Conference on Ultrasound Engineering for Biomedical Applications

 Torrance, CA

 19-21 July 2023

The 15th International Conference on Ultrasound Engineering for Biomedical Applications will be held from **19th to 21st July** at the Torrance Marriott Redondo Beach in Torrance, California, US. The conference will take an offline format, and people from all walks of life in the field of ultrasound are welcome to attend.

[Register Now](#)

The 16th Symposium on Piezoelectricity, Acoustic Waves, and Device Applications Held Successfully in Nanjing

By Ji Wang

The 16th Symposium on Piezoelectricity, Acoustic Waves, and Device Applications (**SPAWDA 2022**) was successfully held in the Nanjing Purple Palace Hotel on October 11-14, 2022. The conference was held in a hybrid form for both online and on-site presentations. This conference, as the past events, was sponsored by the Chinese Society of Theoretical and Applied Mechanics (CSTAM), the Chinese Society of Acoustics (CSA), the Chinese Society of Vibration Engineering (CSVE), and the IEEE-UFFC Society this year. This time the conference was organized by the Nanjing University of Aeronautics and Astronautics (NUAA) and State Key Laboratory of Mechanics and Control of Mechanical Structures. The conference also received strong support from the Science and Technology Association of all levels in Jiangsu Province and other organizations. A number of prominent academicians including Prof. Bangchun Wen of Northeastern University, Prof. Liding Wang of

and Academician of NUAA. Prof. and Academician Zhongde Shan, also the President of NUAA, presented at the opening ceremony of the conference with a number of senior officials from the Association of Science of Technology of Jiangsu Province.

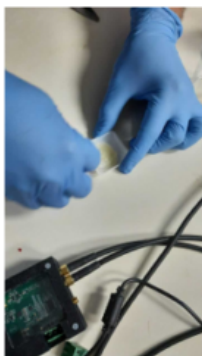
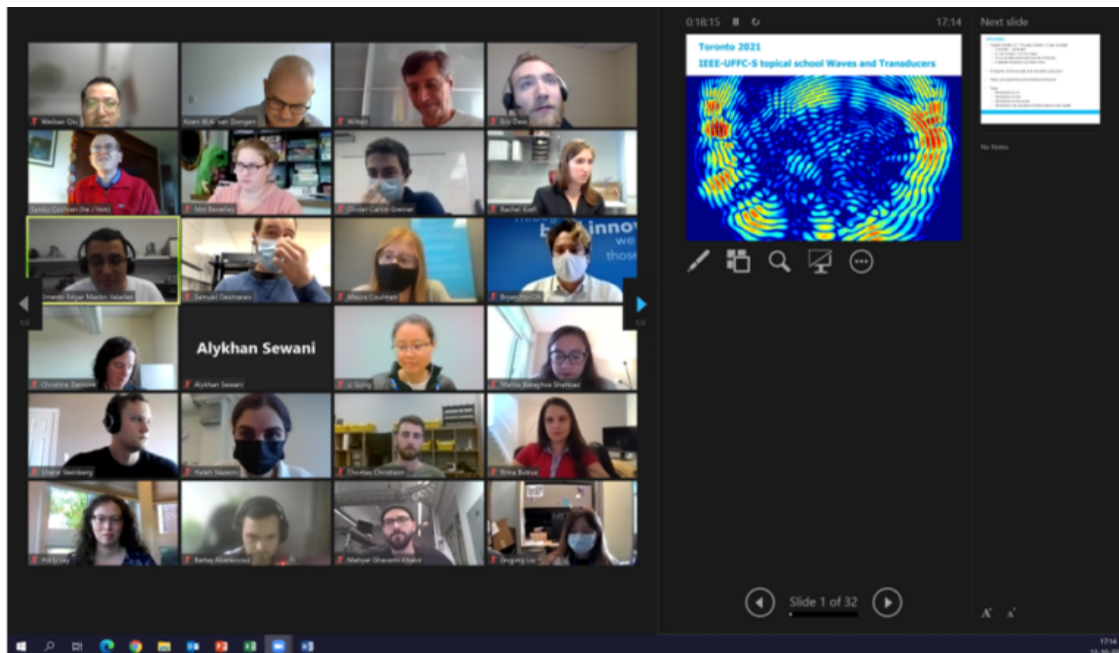
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EDUCATION

WAVES AND TRANSDUCERS

2023 IEEE UFFC-S Special-Topic School



Acoustical imaging is based on two fundamental pillars: waves and transducers. The waves are essential to probe the interior of the human body, a metal structure or the earth whereas the transducers are essential to generate and receive the acoustic waves. This topical school is built around those two pillars.

Teaching faculty:

Dr. Holly S Lay, Acoustiic Inc.

Prof. Sandy Cochran, University of Glasgow

Prof. Omer Oralkan, North Carolina State University

Dr. Koen W.A. van Dongen, Delft University of Technology

Contact information:

Any questions can be directed by email to Dr. Koen W.A. van Dongen: k.w.a.vandongen@tudelft.nl, please use as subject line: IEEE-UFFC School 2023

[Register Now](#)

Latin America Webinar Series

We are excited to continue our **UFFC-S Latin America Webinar Series**. Each webinar will feature a short early career talk and a main talk followed by a 10-minute Q&A session. Learn more about the Latin America Webinar Series, [here](#).

The LAWS Committee is currently seeking volunteers to join the committee!

Position Title: Latin America Webinar Organizing Committee Member

UFFC-S Committee: UFFC-S

Start Date: As soon as possible

Applications Due: 15th June

Languages: English, Spanish (Preferred), Portuguese (Preferred)

Position Description:

The UFFC Latin America Webinar Series is an initiative of the Ultrasonics, Ferroelectrics, and Frequency Control Society (UFFC) that seeks to foster collaboration and promote the exchange of knowledge and research in the field of Ultrasonics, Ferroelectrics, and Frequency Control in Latin America. The webinar series consists of online lectures, seminars, and panel discussions that are open to the public and free to attend. The series aims to provide a platform for scientists and engineers from Latin America to present their work and share their research with a wider audience. Are you interested in volunteering to join the Latin America Webinar Organizing Committee?

We are very excited to invite you to become a volunteer for the UFFC-S Latin

Volunteering for this webinar series will allow you to learn about the main trends and developments in Ultrasonics, Ferroelectrics, and Frequency Control Society. Additionally, you will be able to nominate experts and leaders in the field, review materials provided by the speakers, as well as topics to make up a list for future webinars.

As a volunteer, you will have the opportunity to contribute to the organization of the webinars, helping to promote them and manage the events. You will also have the opportunity to network with other professionals in the field and have access to discussion panels and talks.

An ideal candidate is someone who lives in or is from Latin America as one of the main responsibilities of this position is to assist in recruiting speakers from this area. It is also preferred that the candidate speak Spanish or Portuguese.

If you would like to join the UFFC-S Latin America Webinar Committee, please apply. We look forward to you joining our team!

[Apply Here](#)[Back to Top](#)

PUBLICATIONS

IEEE TRANSACTIONS ON **ULTRASONICS, FERROELECTRICS, AND FREQUENCY CONTROL**

[View the T-UFFC Current Issue](#)

Calls for Papers for Upcoming Spotlight Issues

[Wearable Ultrasound Devices, Materials, and Applications](#)

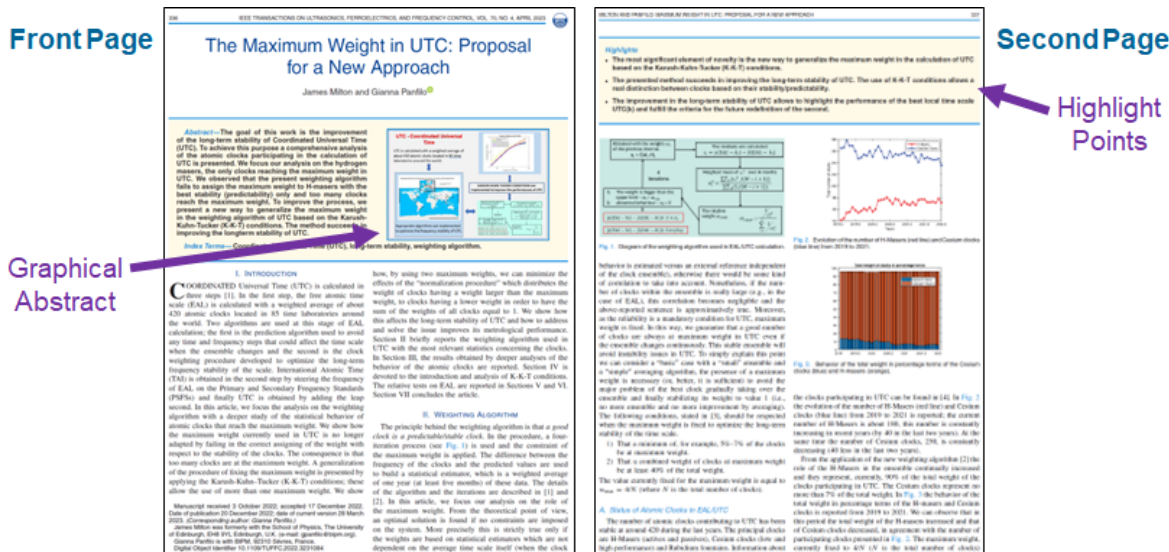
for a broad range of engineering know-how essential to Wearable Ultrasound Devices, Materials, and Applications in UFFC.

Submission Deadline: 31 August 2023

For more information, please visit the [IEEE T-UFFC Spotlight Issues](#) web page.

View the T-UFFC Call Board

T-UFFC Has Switched to a New Article Layout



The **IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (T-UFFC)** transitioned to a new layout at the start of 2023. Each published article now features:

- **Graphical Abstract:** This illustration appears on the front page. It illustrates the published article's most representative results and/or key elements of the methodological innovation presented in the article.
- **Highlight Points:** This boxed section, appearing on the second page, gives an executive summary of an article in three point-form statements that outline the most significant element of novelty in the presented work, the main results, and the implications and importance of the reported findings to the research field.

The new layout is designed to help enhance the accessibility of T-UFFC articles

prepare their T-UFFC manuscripts using the new template.



Publication

IEEE Open Journal of Ultrasonics, Ferroelectrics, and Frequency Control Society

[View the OJ-UFFC Current Issue](#)

Calls for Papers for Upcoming Special Issues

Acoustic Metamaterials and Phononic Crystals at the Ultrasonic Frequency Range

This Special Issue will seek to compile a collection of original research and tutorial papers to promote the publication and dissemination of best practices for a broad range of engineering know-how essential to Acoustic Metamaterials and Phononic Crystals at the Ultrasonic Frequency Range in UFFC.

Submission deadline: 1 August 2023

For more information, please visit the [IEEE OJ-UFFC Special Issues full paper card](#).

[View the OJ-UFFC Call Board](#)

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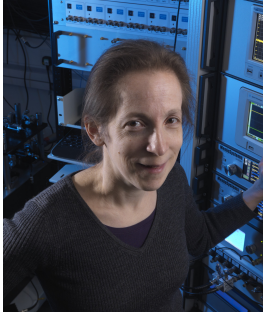
AWARDS

2023 Frequency Control Awards



Sunil Ashok Bhave

In recognition of recent breakthroughs in Piezoelectric-MEMS enabled frequency control of light in microresonators and diamond color centers.



I. I. Rabi Award

Helen Margolis

For exceptional technical contributions and leadership in the development of high accuracy atomic clocks for clock comparisons and tests of fundamental physics.



IEEE C. B. Sawyer Memorial Award

Aaron Partridge

For entrepreneurial and technical leadership in the field of MEMS-based timing references, and for extensive service to the Frequency Control community.

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STUDENT MEMBERSHIP

Student Representative Update

The UFFC-S Student Representative team was delighted to interact with you at the first Student Events of 2023 at IFCS-EFTF in Toyama, Japan!

These events are always a great opportunity to meet your peers, network with academics & industrials, and get to know your student representatives' team:

- Yash Kumar (Senior Rep Ultrasonics)
- Ralph Bulanadi (Senior Rep Ferroelectrics)
- Kristi Nguyen (Senior Rep Frequency-Control)
- Samantha Schafer (Junior Rep Ultrasonics)
- Brooke Richtik (Junior Rep Ferroelectrics)
- Kai Suekane (Junior Rep Frequency Control)

We will soon be announcing the opening of additional volunteering positions in the sub-committees formed by our students. There are a lot of opportunities to set up new activities and we are therefore looking for motivated volunteers to support us with those tasks. We're always looking for new ideas and hope many of you will be able to join us in these activities!

Student Representatives Team

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JOB MARKETPLACE

Job Opportunities

Title: Time and Frequency Capacity Building Coordinator / One-year Secondment

Description:

The International Bureau of Weights and Measures (BIPM) is an intergovernmental organization whose mandate is to provide the basis for a coherent system of measurements throughout the world, traceable to the International System of Units (SI). The BIPM Headquarters is based in Sèvres, in the outskirts of Paris(France), and has an international staff of about 70.

Further information can be found at <https://www.bipm.org>.

The BIPM has undertaken a collaboration with the Ultrasonic, Ferroelectrics, and Frequency Control (UFFC) Society of the Institute of Electrical and Electronics Engineers (IEEE) (<https://ieee-uffc.org/>) for the development of capacity-building material in time and frequency (TF) metrology.

To this aim, the BIPM seeks a Secondee to act as the **Time and Frequency Capacity Building Coordinator** for the **BIPM Time Department**:

- **Deadline for applications:** 31st May 2023 (23:59 Paris time) to patrizia.tavella@bipm.org
 - **Starting date:** Beginning September 2023
 - **Contract:** Secondment, one year – full-time basis
-

Please Tell Us Your Stories

Please contact any of the members of the UFFC-S newsletter team if you have news to share with the UFFC-S membership. We will get news onto the website as it occurs and include selected items in the quarterly highlight newsletters. Finally, in addition to the usual notices and updates we share, we're keen to promote good news and successes from across our society. If you or those you work with have received an award, successfully defended their Ph.D. thesis, secured funding for an exciting new initiative, please get in touch! You can see all our news items on our web pages or by following our social media accounts.



Arun Thittai, Newsletter Editor-in-Chief

Derek Chan, Newsletter Deputy-Editor-in-Chief

Erdal Oruklu, Ultrasonics Editor

Julia Glaum, Ferroelectrics Editor

Wei-Chang Li, Frequency Control Editor

Srinath Rajagopal, Web Editor-in-Chief

Andrew Feeney, Publicity Chair

Social Media

We're very keen to build our social media presence both to promote our society and to share news items with our community. Please add our pages to your networks and promote our posts so we can continue to reach as wide an audience as possible.

Whitelist UFFC-S Email

Please remember to whitelist the UFFC-S Administrator email address, uffc-admin@conferencecatalysts.com, to ensure that you are receiving the

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