

[View this email in your browser](#)



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



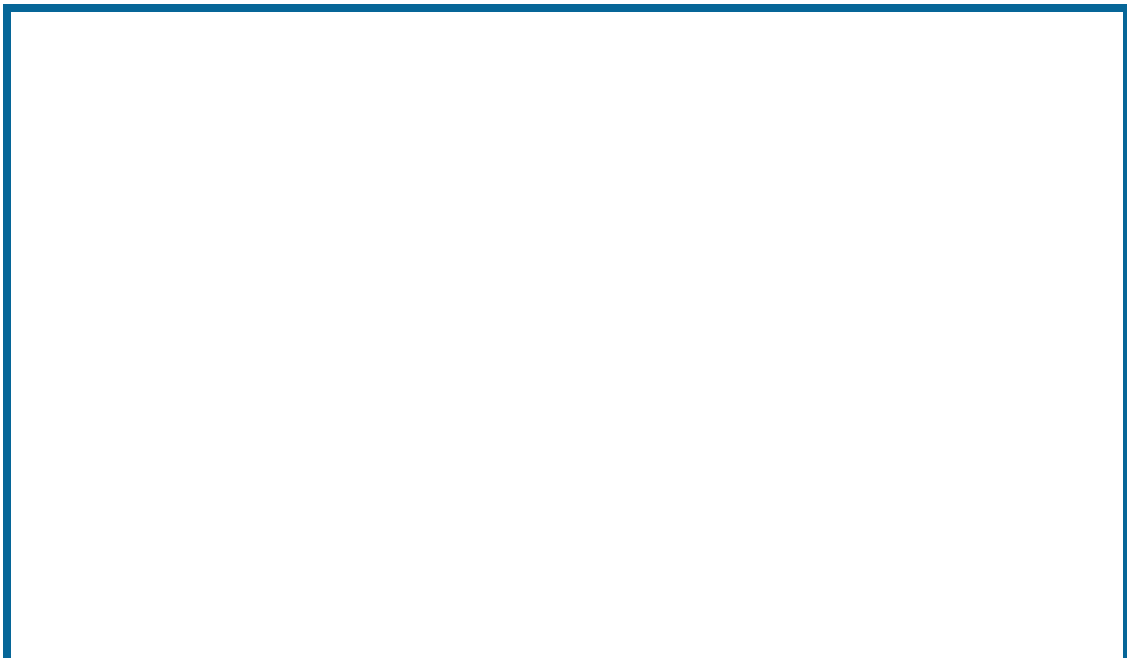
UFFC-S Newsletter - August 2023

[Facebook](#)[Twitter](#)[LinkedIn](#)[YouTube](#)

IN THIS ISSUE

[Good News](#)[Society Updates](#)[Symposia](#)[Education](#)[Publications](#)[Awards](#)[Student Membership](#)[Keep In Touch](#)

MESSAGE FROM THE PRESIDENT





As I near the end of my two year term as UFFC-S President, it's time to reflect on what we've done, what worked, what didn't, and what remains to be accomplished.

One of the challenges that I mentioned at the start of my term would be how we implemented hybrid conferences. Last year, as we slowly emerged from the pandemic, hybrid was recognized as a requirement because of continuing travel restrictions ...

[Read More from the President](#)

GOOD NEWS

UFFC-S Distinguished Lecturers Met with the Student Branch Chapter at Simon Fraser University

The Student Branch Chapter of the UFFC-Society at Simon Fraser University (SFU), Burnaby, Canada, led by its president Tara Nazari, had the esteemed privilege of hosting two eminent professors of our field, Dr. Ahmad Safari from Rutgers University and Dr. Andrew Bell from The University of Leeds, as the IEEE-UFFC Ferroelectrics Distinguished Lecturers in May 2023.

[Read More](#)

UFFC-S Member **Anthony Gerig** of Viterbo University recently published an undergraduate textbook on the physics of waves described below:

Introduction to Wave Physics by Anthony Gerig is a textbook designed for a single semester, intermediate-level course on waves. It initially focuses on one-dimensional waves to introduce major concepts, and then extends each of

waves as the primary example of the former and electromagnetic waves as the primary example of the latter. Topics covered include interference, reflection and transmission, cavities and waveguides, radiation, diffraction, and scattering.

The book can be freely downloaded at ResearchGate from the link below or from the book website. Hard copies are available on Amazon.

[Download Book](#)[Book Website](#)[Back to Top](#)

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.

application to be posted on the Volunteer Opportunities page, please click [here](#).

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

Call for Proposals



The graphic is a dark blue rectangle with a white border. On the left, there is a circular icon containing a document with a checkmark and a pencil. To the right of the icon, the text reads: 'IFCS 2025 and 2026 Call for Proposals'. Below this, it says: 'Proposal document submissions are due by Friday, 15th September 2023.' In the bottom left corner of the graphic is the UFFC logo, and in the bottom right corner is the IEEE logo.

The **International Frequency Control Symposium (IFCS)** is an international conference and exhibition organized and sponsored by the **IEEE Ultrasonics, Ferroelectrics, and Frequency Control (UFFC) Society**, providing information on recent advances and trends of scientific research and industrial development in the fields of Time and Frequency. Every other year IFCS is held jointly with the European Frequency and Time Forum EFTF. Consequently, 2025 will be a joint conference and 2026 will be IFCS only.

The upcoming IFCS conference locations are:

- The IFCS 2024 (joint UFFC Symposia): Taipei (Taiwan)
- **The IFCS-EFTF 2025: Americas (bid)**
- **The IFCS 2026 (bid)**

The proposal document submission due date is **Friday, 15 September 2023**.

IFCS-EFTF 2023 Recap

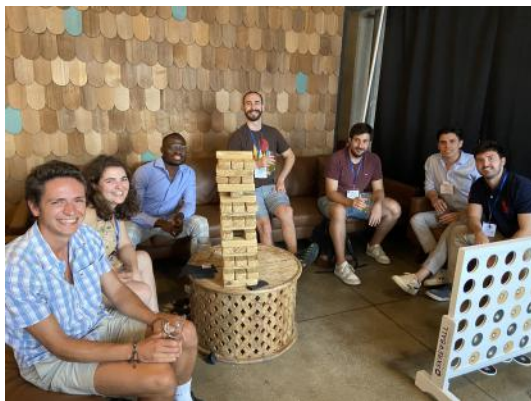
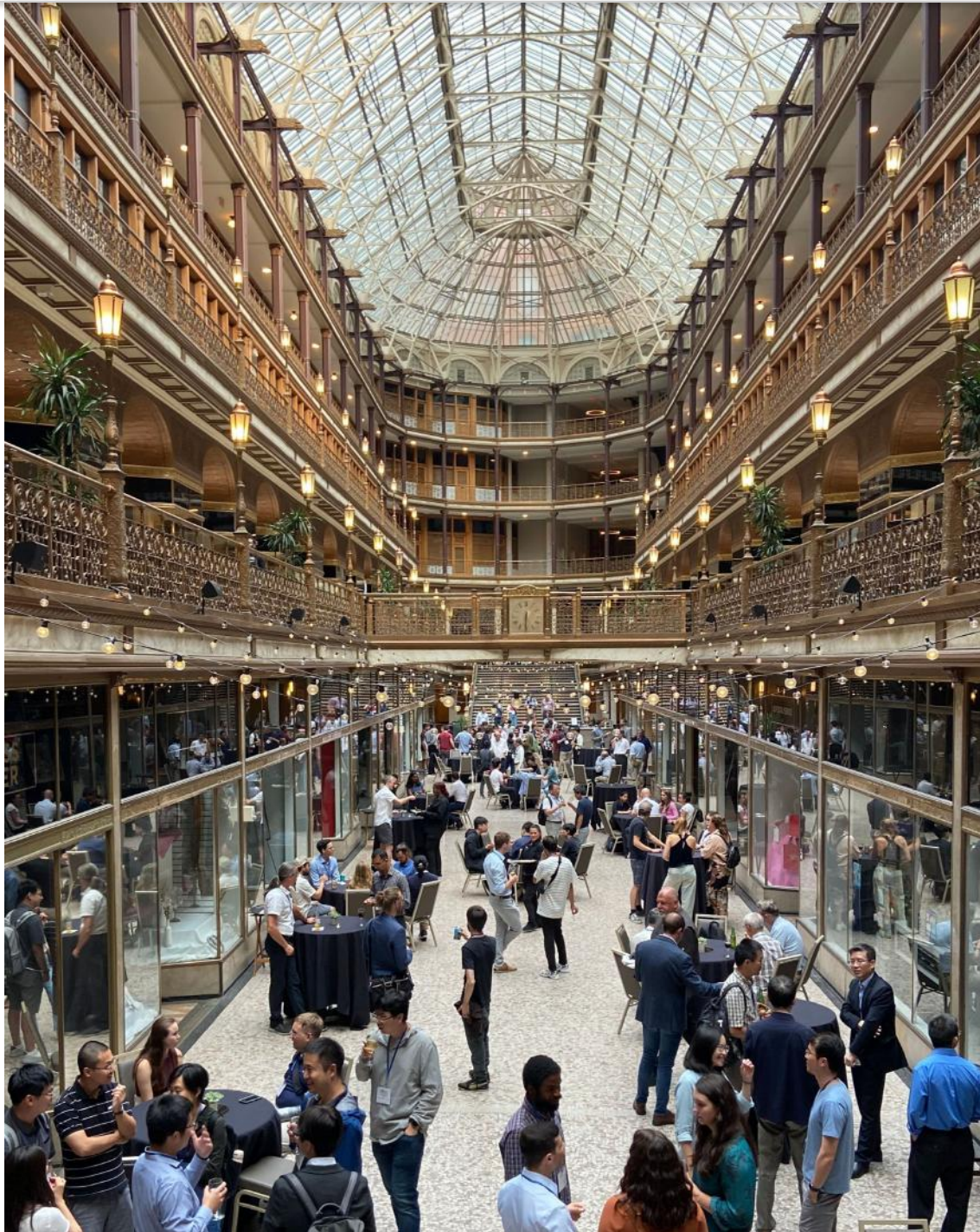


The 2023 Joint Conference of the **IEEE International Frequency Control Symposium & European Frequency and Time Forum** was held in Toyama,

90 joined virtually.

The organizers are grateful to everyone that made the Symposium a great event full of exciting lectures and insightful discussions! We would also like to thank the 24 exhibitors that displayed their latest products and services throughout the event, and to specifically acknowledge the sponsors listed below for their support.

[2023 ISAF-ISIF-PFM Recap](#)



Asia-Pacific Workshop on Time and Frequency (**ISAF-ISIF-PFM 2023**) was held from 15-19 May in Cleveland, Ohio!

This international conference brought together leaders from academia, national laboratories, and industrial research and development sectors. The conference covered the most recent advancements in the science and technology of ferroelectrics, electroceramics, thin films, dielectric materials, and their applications.

[See Award Winners and On-site Photos](#)

[Back to Top](#)

SYMPOSIA

Upcoming Symposia



The **2023 IEEE International Ultrasonics Symposium** (IUS) will be held 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.



IEEE Ultrasonics, Ferroelectrics, and Frequency Control Joint Symposium
Taipei Nangang Exhibition Center, Taipei, Taiwan || September 22 – 26, 2024

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

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

[2024 UFFC Joint Symposium](#)



We are excited to announce the inaugural Life Member Conference, designed to strengthen the engagement of IEEE's 38,000 Life Members in shaping our collective future. Life Members represent all disciplines across the IEEE's fields of interest. We are also dedicated to giving back and sharing our expertise with the next generation.

📅 : 14-16 April 2024

📍 : Hyatt Regency, Austin, Texas

The conference has three tracks:

1. Emerging Technologies – that impact seniors

- Technologies of the Future and the Next Chapter
- Aging Society and Technology Progress
- Renewable Energy and Sustainability

2. Applications – technologies used by aging populations

- Financial and Investment Strategies
- Smart Systems, Infrastructure, Equipment and Living

3. Contributions – members sharing resources with future leaders

- Mentors and Influencers in the Modern Society
- Professional Development, Sharing and STEM Education

[Life Members Website](#)

INDUSTRY ENGAGEMENT

Transitions to Industry at IUS


On behalf of the IEEE UFFC-S Industry Engagement Committee, we'd like to invite you to participate in the Transition in Industry event at IEEE IUS 2023.

This event will offer valuable insights into navigating transitions at various levels of the industry as well as making the transition into industry from school/academia. Join us for an engaging discussion featuring a distinguished panel of professionals at various career stages who have successfully traversed these transitions, sharing their experiences and strategies for success.

The event will feature an initial panel discussion with time for Q&A with the audience afterward.

Space is limited, so be sure to secure your place early. We look forward to seeing you at this enriching event that promises to empower your career journey.

 : Tuesday, 5 September

 : 6:00 PM - 7:30 PM EDT

[Register Here](#)

Demo & Product Showcase at IUS

Dear IEEE Industry Partner,

The IEEE IUS planning committee would like to invite you the opportunity to demonstrate your technology, instruments, and even components to the wider IEEE IUS audience. This will be an excellent opportunity to network with your colleagues while sharing the unique technologies you bring to the world.

The event will be held during the lunch session on **September 7th, 2023**. If you would like to participate and have a table to share, please fill out the registration form below.

For any questions, please contact the UFFC-S Industrial Engagement Chair, Maryam Basij at Nasim.basij@gmail.com or the event host Tim Wickard, at twickard@gmail.com.

we look forward to seeing you at IUS 2023!

Tim Wickard

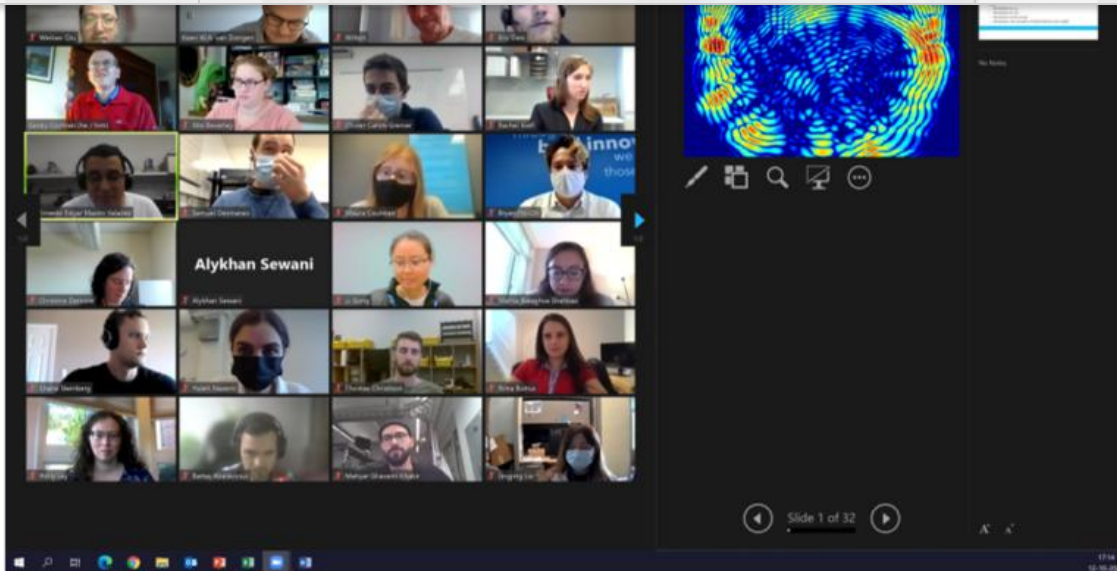
Member, IEEE UFFC Industrial Engagement Group

[Demo & Product Show Registration Form](#)

EDUCATION

WAVES AND TRANSDUCERS

2023 IEEE UFFC-S Special-Topic School



 **Monday, 9 October – Friday, 13 October 2023**

 Delft University of Technology – The Netherlands

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:

School 2023

[Register Now](#)

2023 4th Ferroelectric School in Xi'an, China

The 2023 (4th) Ferroelectric School will be hosted by the Electronic Materials Research Laboratory (EMRL) & International Center for Dielectric Research (ICDR) of Xian Jiaotong University, Xi'an, China on **18 - 23 November 2023**.

Ferroelectric School is an educational event supported by IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society (UFFC-S).

A general overview of the fundamentals and applications of such materials will be given through lectures, tutorials, and demonstrations provided by academics internationally recognized in the field and by companies known to the ferroelectric community.

Scientific exchange and networking opportunities will be offered through a range of social activities including poster presentations facilitating participants to communicate on their own work with experts in the field.

Deadlines for Registration

- Applications Due: **31 August 2023**
- Notification for Sponsorship Admittance: 10 September 2023
- Registration: 15 October 2023 (early registration); 18 November 2023 (Onsite registration)
- Workshop Date: 18 - 23 November 2023

[More Information](#)

Call for Proposals - 2024 Ferroschool in Europe

Please prepare your proposal using the following information and submit

Make sure your answers are precise and to the point. Please limit your entire application to no more than 2 pages with answers in font size 12.

1. Briefly describe the venue including dates. The workshop should ideally be held between Sept-Dec of 2024. Bear in mind factors such as adequate space, reservations, local arrangements, suggested hotels and proximity to meeting space, social/networking events etc. Describe your team and include any prior experience in conference management. (30%)
2. What is your intended registration fee? Keep in mind UFFC requires the student registration fee to be lower than that for non-students. How did you come to this figure? Please present a rough budget. (30%)
3. Financial model- UFFC will allocate some funds (US\$20k) for the workshop. The host will need a larger budget to cover additional costs. What is your financial model to cover those costs? Please provide evidence that the school organizers have sufficient experience of budget and financial responsibility. (30%)
4. Please comment on your ability to offer the workshop to virtual attendees. Describe your facilities for video recording and/or videocast and comm and any costs associated with this. (10%)

Latin America Webinar Series



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

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 America Webinar Series. We are organizing a series of webinars covering interesting topics on Ultrasonics, Ferroelectrics, and Frequency Control Society.

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

This Spotlight 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 Wearable Ultrasound Devices, Materials, and Applications in UFFC.

Submission Deadline: 31 August 2023

Insights and Opportunities in Ultrasound Imaging Algorithms

This Spotlight Issue will focus on innovative data processing techniques and algorithms, integration of ultrasound imaging with other modalities, and quantitative analysis of ultrasound images for improved diagnosis and monitoring of disease.

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

Publication

**IEEE Open Journal of Ultrasonics,
Ferroelectrics, and Frequency Control Society**[View the OJ-UFFC Current Volume](#)

New Publication Track for ISAF-ISIF-PFM 2023

Authors who presented work at this year's ISAF-ISIF-PFM 2023 are invited to submit a letter (3 pages minimum, 4 pages maximum length) to OJ-UFFC. Submissions will go through a full peer review. Accepted letters based on work presented at ISAF and submitted before 17 September 2023 will be marked as "ISAF highlights" to comprise a special section if the number of published contributions is sufficient. Publishing in the Open Journal – UFFC will provide open access for your paper if it is accepted.

- Deadline: **17 September 2023** for letter to be marked as "ISAF highlights"
- Deadline: **31 December 2023** for processing charges to be waived

During your submission, specify in your cover letter that you are submitting a manuscript based on a presentation in ISAF. The article processing charge for OJ-UFFC will be waived for manuscripts submitted until 31 December 2023. Manuscripts submitted to OJ-UFFC will enjoy the benefits of peer review to improve the quality of the publication and the authors will be able to list these publications under peer-reviewed publications.

Each manuscript must be unpublished and not be under consideration elsewhere. The submitted manuscript must be prepared for potential publication according to the OJ-UFFC guidelines. By submitting a manuscript, all authors confirm that the work is original. Figures, tables, and reported results are original contributions and accurately reflect the presented work at the

All articles published in OJ-UFFC are evaluated in accordance with the requirements set forth in the IEEE Publication Services and Products Board (PSPB) Operations Manual (Sections 8.2). More detailed information on the review process can be found at <https://ieee-uffc.org/publication-t-uffc/guidelines-authors>.

[View on UFFC-S Website](#)

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

[Back to Top](#)

AWARDS

2023 Ferroelectric Awards



IEEE Ferroelectrics Recognition Award

Hong Wang

For leading work on new dielectric ceramics with ultra-low sintering temperature for LTCC devices.



IEEE Robert E. Newnham Ferroelectrics Award

Thomas R. Shrout

For his pioneering research and outstanding contributions to the design/fabrication, understanding, and technology transfer of relaxor ferroelectric materials to mass production.



Min-Hyuk Park

For fundamental understanding of ferroelectric hafnia films and the development of related novel applications.



IEEE Ferroelectrics Young Investigator Award

Jian Shi

For his exciting out-of-the-box work on ferroelectrics and new way exploration of old materials.

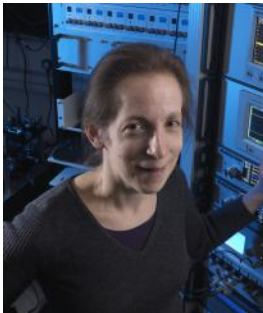
2023 Frequency Control Awards



Walter G. Cady Award

Sunil Ashok Bhawe

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.



Aaron Partridge



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

[Back to Top](#)

STUDENT MEMBERSHIP



Student Events at IUS

Student Social

 : **Sunday, 3 September**
 : **6:00 PM - 7:30 PM EDT**





Mentorship Luncheon

 : **Monday, 4 September**
 : **12:15 PM - 1:45 PM EDT**




Women in Engineering/Young Professional/Student Event

Student Pitch Competition

 : **Wednesday, 6 September**
 : **12:15 PM - 1:45 PM EDT**



To sign up as a presenter, complete [this form](#).

 : Thursday, 7 September : 9:30 AM - 10:45 AM EDT[Back to Top](#)

JOB MARKETPLACE

To advertise a job on the UFFC-S Job Marketplace, please submit the job information to our [IEEE UFFC Job Submission Form](#).

For any questions, please contact: uffc-admin@conferencecatalysts.com.

Job Opportunities

Title: Research Technician: Imaging Feedback for Histotripsy Ablation of Renal Tumors

Location: University of Chicago, Chicago, IL, USA

Application Deadline: **Wednesday, 6 September 2023**

The job provides technical support activities related to scientific research projects. Ensures compliance of research activities with institutional, state, and federal regulatory policies, procedures, directives and mandates. Assists in drafting presentations on research findings.

Contact Information:

Kenneth B.Bader jhlavaty@radiology.bsd.uchicago.edu

[More information and Application Details](#)

Title: Postdoctoral Associate

Location: University of Colorado Boulder, Boulder, Colorado

Application Deadline: **Sunday, 24 September 2023**

Boulder Campus Human Resources Recruiting@colorado.edu

[More information and Application Details](#)

Title: Research Scientist or Engineer

Location: Institute of Materials Research and Engineering (IMRE), ASTAR, Singapore

Application Deadline: **Saturday, 30 September 2023**

Expected Start Date: Friday, 1 December 2023

The job is to establish and enhance high-quality piezoelectric material growth capability and obtain piezoelectric materials with competitive electromechanical performance properties, particularly including piezoelectric single crystals, as demanded for producing high-performance ultrasonic transducers.

Contact Information: Kui YAO k-yao@imre.a-star.edu.sg

[More information and Application Details](#)

Title: Ph.D. Position - Full Funding

Location: The Pennsylvania State University, University Park, PA, USA

Application Deadline: **Sunday, 1 October 2023**

Expected Start Date: Wednesday, 1 November 2023

Contact Information:

Julianna C. Simon, Ph.D. asa_batc@googlegroups.com

[More information and Application Details](#)

KEEP IN TOUCH

Please Tell Us Your Stories

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

Srinath Rajagopal, Web Editor-in-Chief

Andrew Feeney, Publicity Chair

Wei-Chang Li, Frequency Control Editor

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 UFFC-S administrative email communication. For more information on how to whitelist an email address, click [here](#).

[Back to Top](#)



 Forward

Copyright © 2023 IEEE Ultrasonics, Ferroelectrics and Frequency Control Society, All rights reserved.

[IEEE Privacy Policy](#)

Want to change how you receive these emails?
You can [update your preferences](#) or [unsubscribe from this list](#).