



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



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PRESIDENT'S MESSAGE

Dear UFFC Members,

Welcome to the final UFFC-S President's message for 2020. I hope this message will find you and those close to you in good health. There have been difficulties for everyone, and very sadly, tragedies for many that will make 2020 a pivotal year for us all. Recent events, such as the announcement of promising vaccines, give us hope that 2021 will be a brighter year. When humankind listens to the better angels of its nature and supports science, we can tackle enormous challenges that plague humanity.



UFFC's goal is to promote technology in our own fields to serve humanity in as broad and deep a manner as we can. All our major conferences for 2020 (IUS, IFCS, ISAF) shifted to online-only and succeeded in providing high-quality technical content to record numbers of attendees. Despite the more promising outlook for 2021, the UFFC-Society has taken the cautious position to plan all

major society events as online events throughout 2021 as we await conditions to be firmly reestablished that can ensure the health, safety and participation of members from all over the world to attend in-person events. While we had hoped we might be able to meet in-person by the end of the year, the choice to remain on-line a little longer will keep attendees safe and provide organizers a well-defined framework within which to plan the world-class meetings you expect from IEEE UFFC-S.

To support both online symposia and other society meetings, UFFC is investing in performant digital tools for

- communication
- sharing technical content online
- a more relevant and interesting UFFC website
- regular communication via social media to keep members engaged with each other.

These changes were already evolving, but what would have been programmed over approximately 5 years have been compressed into a single year to better serve the UFFC-S community in face of the situation created by the pandemic. We'll be releasing these innovative tools throughout 2021, and are looking forward to providing new opportunities to our members for the exchange of ideas, technical content, and news.

While technical content can be provided online, the person to person interactions and networking that we used to take for granted at symposia are much harder to maintain. The UFFC-S wants to help members make and strengthen connections. Our Mentoring and Networking teams will be presenting initiatives along these lines in the new year. As always, it's volunteers that make UFFC what it is. Without them, none of our achievements, large or small, would be possible. To ensure that volunteers come from the widest and most diverse range of people interested in serving our committees, the Volunteer Engagement group is working to encourage anyone who wants to contribute to finding a means where they can make a difference. If you want to get involved, at any level, please contact us [here](#). In particular, I want to draw your attention to our recent [calls for our Transactions](#). The new Open Access Journal is seeking an Editor in Chief to step into the role immediately, and our existing Transactions is seeking an Editor in Chief Elect to serve alongside our seasoned Editor in Chief for at least a 1-year transitional period to learn the functions of the position.

Finally, I'd like to highlight the [Unconscious Bias training initiative](#) that is led by the Diversity and Inclusion Committee. Starting by building awareness

among all members holding leadership positions in the Society, we're working to make sure the UFFC-S is as open, welcoming, and inclusive as possible. Everyone should feel they have a technical home in UFFC-S, and no one should feel excluded. There are a small number of places remaining in the December training sessions on Unconscious Bias, and they are available to any interested UFFC members until the places are all booked.

Stay safe and well, mask up, isolate where you can, and let's keep each other safe. I wish you all the best for the rest of 2020, and a brighter 2021 to us all.

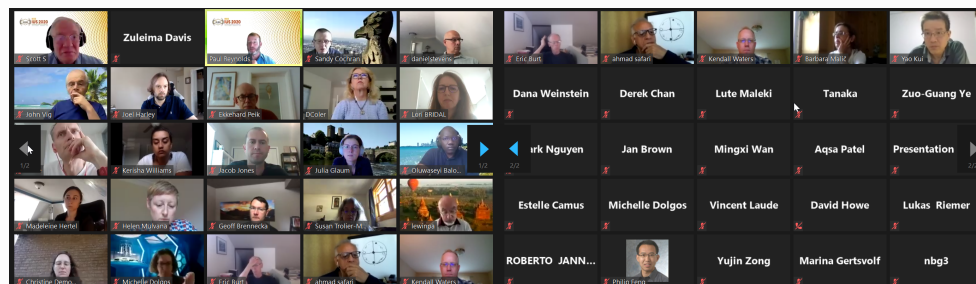
Paul Reynolds
UFFC President 2020/21

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UFFC-S UPDATES

2020 IEEE UFFC September AdCom Meeting

Contributed by Zuleima Davis, UFFC-S Operations Manager



The third [Administrative Committee \(AdCom\) meeting](#) for 2020 was held prior to the IEEE UFFC IUS 2020 on 5 September 2020.

Paul Reynolds, President of IEEE UFFC-S 2020-21, led the meeting. The main focus was the recent impact on the Society's symposia and finances due to COVID-19. The Society is in good financial health and continues to work towards maintaining a healthy budget and best manage the impact of the pandemic. Financial stability and value to members are key points within the strategic plan of UFFC-S.

Additional details can be found on our [website](#).

IEEE Milestone in Honor of Walter Guyton Cady

Contributed by Sidney Lang, UFFC-S History Chair



The [IEEE Milestone dedication](#) ceremony honoring Walter Guyton Cady for the Piezoelectric Quartz Resonator was held virtually on 5 November 2020 with 130 attendees. Learn more about this IEEE Milestone [here](#).

Visit the [UFFC Walter G. Cady memorial webpage](#) for more information about him and his career and to access a recorded interview with Prof. Sidney Lang, UFFC-S History Chair.

Diversity and Inclusion in UFFC-S

Contributed by Alp Sehirlioglu, UFFC-S Diversity and Inclusion Committee Chair

In the Fall of 2018, a new [ad-hoc committee on Diversity and Inclusion](#) (D&I) was formed under the leadership of then UFFC-S President Prof. Nazanin Bassiri-Gharb. The committee has been working since under the continued support of current President Dr. Paul Reynolds. The objective of the D&I Committee is to encourage and guide UFFC-S in promoting diversity and inclusion to achieve equity at the society level and in symposia. A broad definition of diversity has been taken, as the barriers to equity at the professional level can include, but are not limited to geography, race, ethnicity, class, gender and gender identity, sexual orientation, age, and ability. The D&I committee has taken several early steps to increase diversity (and the awareness of diversity) in our society, as well as build the metrics for evaluation of future efforts.

Future initiatives include free online workshops and tutorials targeted towards underrepresented regions (e.g. South America and Africa) as well as towards underrepresented communities (e.g., Historically Black Colleges and Universities in the U.S.). In future newsletters keep an eye on the highlights from the D&I committee as well as career highlights of our many diverse members at UFFC. You can contact the [Chair of the D&I committee](#) if you are interested in contributing, need additional information, or have questions.

Nominations Sought for VP Ultrasonics

Contributed by Sandy Cochran, UFFC-S VP Ultrasonics

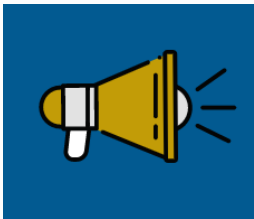
The position of [Vice President for Ultrasonics](#) will be vacated on 1 January 2021. Nominations are therefore sought to fill it, with a deadline of **30 November 2020**. Nominations should be sent by email to [Zuleima Davis](#), UFFC-S Operations Manager, with a copy to [Sandy Cochran](#), VP Ultrasonics.

Nominate NOW



IEEE UFFC IUS Medical Ultrasonics Technical Program Committee – Call for New Members

Contributed by Jeffrey Ketterling, IUS Medical Ultrasonics TPC Vice-Chair



The [IEEE UFFC International Ultrasonics Symposium, Medical Ultrasonics \(Group 1\) Technical Program Committee \(TPC\)](#) currently consists of 82 experts from the academic and industrial communities. The Group 1 TPC plays a key role in the organization of the UFFC Society's premier meeting, the International Ultrasonics Symposium.

Group 1 TPC will continue to expand in 2021 and is now seeking new members to join the committee. Applications will be accepted until **22 February 2021**.

Interested candidates should send their CV to the current Medical Ultrasonics Vice-Chair, [Jeffrey Ketterling](#). Additional details can be found on our [website](#).

Share Your Talents!

Please feel welcome to get involved in the UFFC organization. Current openings are announced on the [opportunities page](#) on our website. For more information, feel free to contact our [Volunteer Engagement AdHoc Committee](#).

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CONFERENCES

IEEE IUS 2020

Contributed by Erdal Oruklu, Ultrasonics Newsletter Editor



The [IEEE IUS 2020 Conference](#) was held as a virtual-only event between 6-11 September 2020. Due to the resurgence of COVID-19 in Las Vegas and the rest of the state of Nevada, it became impossible to hold the in-person event as planned.

The organizing committee, led by General Co-Chairs Paul Reynolds and Scott Smith, worked tirelessly to provide the best experience for authors and online participants. Consequently, IEEE IUS 2020 witnessed many firsts: a fully virtual technical program using the CONFlux platform; e-posters with rich content using the Kubify platform; on-demand viewable content which was still accessible after the conference was over; transcripts for many talks; live and pre-recorded short courses with live Q&A; multiple workshops for career development; student pitch competition and networking sessions; e-posters competition, social mixer events such as Pub Quizzes and Patron Webinars among other exciting events.

The conference was a success, and the IEEE IUS continued its growth with more than 1900 registrants, despite the COVID-19 pandemic and challenging circumstances. Short courses also had a record number of participants with 277 registrants.

Visit our [website](#) for additional highlights! For details on some of the events that took place in conjunction with IUS 2020, click below:

- [Ultrasonics and UFFC Awards Ceremony at IUS 2020](#)
 - [Challenge on Ultrasound Beamforming with Deep Learning at IUS 2020](#)
 - [Women in Engineering Virtual Event at the IUS 2020](#)
 - [Student Paper Competition and UFFC ePoster Competition Winners at IUS2020](#)
 - [Student Social at IUS 2020](#)
 - [Student-Professional Networking at IUS 2020](#)
 - [Student Pitch Competition at IUS 2020](#)
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Call for Challenge at IUS 2022

Contributed by *Hervé Liebgott*, IUS Challenge Committee

Since 2016, the IEEE UFFC International Ultrasonics Symposium has included a challenge every second year. These challenge sessions ([PICMUS 2016](#), [SAVFI 2018](#), and [CUBDL 2020](#)) have been a great success. The IUS 2022 organizing committee is now soliciting [challenge proposals](#). IUS 2022 will be held in Venice, Italy on 10-13 October 2022.



We invite any group, or association of groups, in the world willing to organize such a challenge to make a formal proposal. Challenge organizers will get a full oral session to present the results of their challenge during IUS 2022.

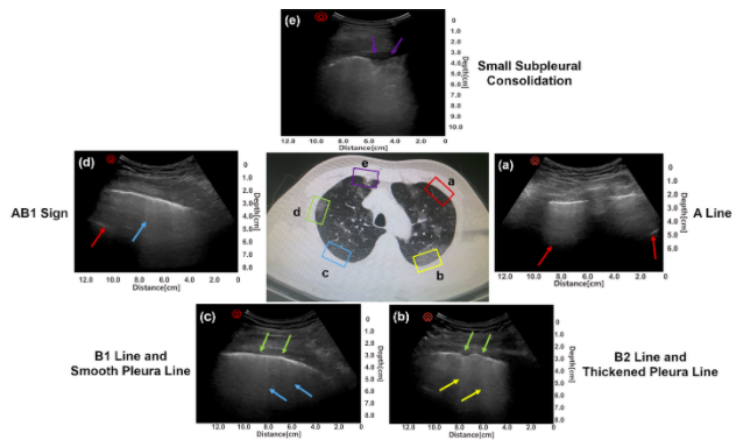
Send your proposal as a PDF file by e-mail to [Hervé Liebgott](#) with the subject line "IUS 2022 challenge proposal" before **31 December 2020**.

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PUBLICATIONS

IEEE UFFC Transactions: Special Issue on Ultrasound in COVID-19 and Lung Diagnostics

Since the onset of the COVID-19 outbreak, ultrasound imaging has been acting as a silent hero in facilitating primary diagnosis and in managing the comorbidities of COVID-19 patients. To highlight lung ultrasound's important role in today's pandemic times, the November 2020 issue of the IEEE UFFC Transactions (Volume 67, Issue 11) has featured a [Special Issue](#) that is dedicated to the theme of Ultrasound in COVID-19 and Lung Diagnostics. A collection of 10 review articles and original research papers on various aspects of lung ultrasound technology can be found on our [website](#).



IEEE UFFC Transactions | Special Issues

‘Deep Learning in Medical Ultrasound’ – December 2020

Editors: Massimo Mischi, Yonina C Eldar, Ruud J.G. van Sloun, Muyinatu A. Lediju Bell

‘Recent advances in ultrasound technology for brain imaging and therapy’ – January 2021

Editors: Weibao Qiu, Ayache Bouakaz, Elisa E. Konofagou, Hairong Zheng

‘Women in Ferroelectrics’ – February 2021

Editors: Michelle Dolgos, Jacob Jones, Barbara Malič, Brady Gibbons, Kazumi Kato

‘Acoustic Radiation Force in Biomedicine’ – March 2021

Editors: Mustafa Fatemi

Visit the [T-UFFC Special Issues webpage](#) for a list of submission deadlines.

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AWARDS

Ferroelectrics Awards | Nominations due 15 January 2021

Contributed by Roger W. Whatmore, FerroCom Awards Chair

The [Ferroelectrics Awards](#) committee of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control (UFFC) Society asks your help in identifying and nominating outstanding individuals for annual awards offered by the Society:

- IEEE UFFC Ferroelectrics Recognition Award (FRA)
- IEEE UFFC Ferroelectrics Young Investigator Award (FYIA)
- IEEE Robert E. Newnham Ferroelectrics Award



Descriptions of the awards and criteria for eligibility are available on the [IEEE UFFC Awards website](#).

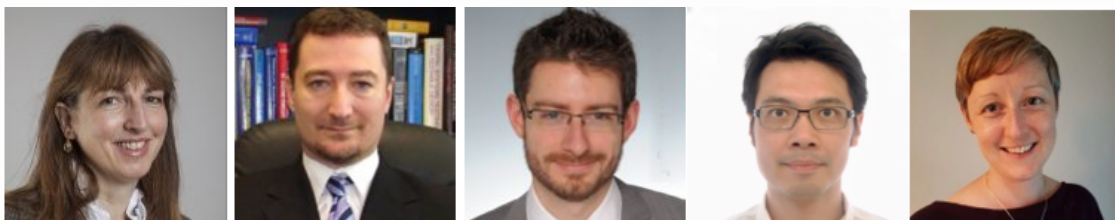
Nominations for all awards are due no later than **15 January 2021** and should be submitted via email to ferroelectrics-awards@ieee.org.

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KEEP IN TOUCH

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 bi-annual highlight newsletters. You can see all our news items on our [webpages](#) or by following our social media accounts.



[Lori Bridal](#), Editor in Chief

[Erdal Oruklu](#), Ultrasonics Editor

[Marco Deluca](#), Ferroelectrics Editor

[Wei-Chang Li](#), Frequency Control Editor

[Helen Mulvana](#), 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.



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