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FOR IMMEDIATE RELEASE

ASE and IEEE UFFC to Co-host a Hackathon on New Ultrasound Technology for Critical Care Continuous Monitoring

(SEATTLE, June 2, 2022) – The American Society of Echocardiography (ASE) is pleased to announce collaborative efforts with the Institute of Electrical and Electronics Engineers Ultrasonics, Ferroelectrics, and Frequency Control Society (IEEE UFFC-S), to co-host a Hackathon on June 14, 2022, in Seattle, Washington. Coinciding with ASE's Scientific Sessions, and chaired by Carol Mitchell, PhD, RDMS, RDCS, RVT, RT(R), ACS, FASE, the joint initiative will bring together experts from their respective fields to work together toward advancing diagnostic ultrasound technology to support continuous monitoring of patients in critical care.

The use of cardiovascular ultrasound for anatomic or physiologic assessment at discrete time points to monitor and optimize treatment for critical care patients is well documented. However, in rapidly changing clinical situations, timely and reliable ultrasounds can be difficult to obtain through conventional, and even advanced echocardiography technology. Efforts to develop and apply continuous anatomic or physiologic ultrasound monitoring have been reported, but not widely adopted. Ongoing advancements in diagnostic ultrasound technology and a proliferation of advanced cardiopulmonary life support devices and other therapeutics in the critical care environment prompted cross-functional collaboration between ASE and IEEE UFFC-S to address the pressing need for continuous monitoring in the critical care setting and drive innovation.

In January 2022, after a rigorous application process, participants were selected and assigned to teams comprised of one clinical representative from ASE and two ultrasonic engineers from IEEE UFFC-S. Over the past few months, Hackathon participants have been working within their teams to gather information, brainstorm, and develop their project concept. On the day of the Hackathon, teams will prepare a pitch and present to a panel of judges from both organizations. The judging panel will award points for project innovation, functionality, and feasibility. The winning team will win a cash prize of $1500 to be split among its members and the team and their project will be highlighted in the July issue of ASE's *Echo* magazine.

Of the collaborative endeavor, ASE President Raymond Stainback, MD, FASE, commented, "The Hackathon event puts practicing critical care doctors and engineers in the same room and presents them with the rare opportunity to tackle a problem that has been fairly resistant to impactful innovations."

IEEE-UFFC-S President Mark Schafer, PhD, FAIUM, FASA, FAIMBE, concurred and noted, "We are very pleased to be working with ASE, bringing together the engineering skills of our members with the clinical

knowledge of ASE practitioners. This is a unique collaboration that we would like to replicate in the future, to more rapidly advance towards new solutions for improved patient care."

About ASE

The American Society of Echocardiography (ASE) is the Society for Cardiovascular Ultrasound Professionals™. Founded in 1975, ASE is the largest global organization representing cardiovascular ultrasound imaging. ASE is the leader and advocate for physicians, sonographers, scientists, veterinarians, students, and all those with an interest in echocardiography, setting practice standards and guidelines for the field. The Society is committed to advancing cardiovascular ultrasound to improve lives. For more information about ASE, visit: ASEcho.org and follow us @ASE360.

About IEEE-UFFC-S

IEEE-UFFC-S is a professional association of academics, industry professionals, researchers, students, and others focused on promoting the advancement of the theory, technology, materials, and applications relating to the generation, transmission, and detection of ultrasonic waves and related phenomena; medical ultrasound, and associated technologies; ferroelectric, piezoelectric, and piezomagnetic materials; frequency generation and control, timing, and time coordination and distribution. For more information about IEEE UFFC-S, visit: https://ieee-uffc.org/ and follow @IEEE_UFFC_Soc.

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