

American Society of Echocardiography

ASE2022

HYBRID

SOUND WAVES IN SEATTLE: CONNECTING THE WORLD

June 10-13,
2022
Seattle, WA

33rd Annual Scientific Sessions
Seattle Convention Center

#ASE2022 • [ASEScientificSessions.org](https://www.ase.org/ase-scientific-sessions)

ADVANCE PROGRAM

“Sound Waves in Seattle: Connecting the World.”

What theme can better capture the experience of the 33rd annual ASE Scientific Sessions in Seattle, WA?

June 10-13, 2022, we will finally again gather together in the “Emerald City” Seattle, Washington. The world has changed in so many ways since our last in-person Scientific Sessions in Portland, Oregon in 2019. Always resilient, ASE continues to prevail by offering the premier cardiovascular ultrasound educational event of the year! However, the lessons of the pandemic have shown us the value of virtual learning in a connected world, and thus, ASE 2022 will be delivered in a hybrid format. Along with the in-person live sessions, presentations from the main plenary room will be live-streamed for global access. Registration for the Scientific Sessions includes 44 additional on-demand sessions to further extend virtual connections with our members, echo enthusiasts, and multidisciplinary partners throughout the world.

Individual educational tracks will address both foundational concepts and evolving practice in the areas of circulation ultrasound; essentials of echocardiography including ischemic heart disease, stress, cardiomyopathy, and cardio-oncology; pediatric, congenital, and fetal echocardiography including the impact of COVID; structural heart disease, interventional and perioperative imaging; and innovation and technology, including artificial intelligence. You can see all the educational tracks outlined on page 5.

Our international partners, the European Association of Cardiovascular Imaging (EACVI) and the Japanese Society of Echocardiography (JSE), co-host joint sessions on Women and Echo, Global Artificial Intelligence, and Advances in Echo in Assessment of Congenital Heart Disease.

In recognition of our global interconnectedness and the climate crisis, our Gardin Lecture keynote speaker will be Suzanne Simard, PhD, Professor of Forest Ecology at the University of British Columbia and author of *Finding the Mother Tree: Discovering the Wisdom of the Forest* (soon to be made into a Hollywood movie starring Amy Adams!). Dr. Simard will do a book signing at the ASE Foundation booth during the break following her session.

Please join us at ASE 2022 and plan to bring your family to explore the beautiful Seattle area, where you can participate in one-of-a-kind experiences from museum explorations to hiking to fine dining and winetasting. There is even a Scavenger Hunt on Saturday evening! We look forward to welcoming you, and hope that you will enjoy all that the 2022 Scientific Sessions has to offer as we reconnect, recharge, and re-energize!

NEW THIS YEAR

- On-site interactive “Do-it-Yourself (DIY)” hands-on scanning sessions.
- Council Networking Events and a Specialty Interest Group Welcome Reception on Friday afternoon.
- Special Sessions on World Alliance Societies of Echocardiography (WASE) Research in Depth and the Best of Imaging Research.
- Speaker’s Corner – Where conversations can continue beyond the formal sessions.
- ShowCASE – Interactive CASE competition.

RETURNING FAVORITES

- Great Debates featuring critical care, vascular, perioperative echo, and early career topics.
- Computer Learning Labs
- Research Presentations and Posters
- Chalk Talks
- Educator and Value Summits
- Veterinary Echo
- Echo Game Show – Pediatric Jeopardy
- Feigenbaum, Edler, Gardin, Kerber, and Kalmanson Lectures
- Arthur E. Weyman Young Investigator and Brian Haluska Sonographer Research Award Competitions
- Science and Technology Theaters
- Dynamic Networking and Social Events
- ASE Foundation Scavenger Hunt and Annual Research Awards Gala events

Sincerely,



Sharon Mulvagh

Sharon Mulvagh, MD, FRCPC, FASE, FACC, FAHA
ASE 2022 Chair
Dalhousie University
Halifax, NS Canada

Sincerely,



Carol Mitchell

Carol Mitchell, PhD, ACS, RDMS, RDGS, RVT, RTR, FASE, FSDMS
ASE 2022 Sonographer Co-Chair
University of Wisconsin-Madison
Madison, WI USA

WORKSHOPS, DIY ACQUISITION, AND LEARNING LABS AT ASE 2022

LEARNING LABS*

In-person course attendees have access to ticketed computer-based learning labs. These hands-on labs have limited capacity, and are led by experts in the field. See the Schedule at a Glance on pages 6-9 for details on dates and times.

3D Cropping (Valves) *(Offered Twice)*

Learn cropping and analysis of 3D and 4D data sets with a focus on valvular heart disease.

Basic Myocardial Strain Imaging (LV, RV, LA)

Learn proper acquisition techniques and analysis of myocardial strain.

Advanced Myocardial Strain Imaging (LV, RV, LA)

Learn strain patterns and pitfalls.

3D Volume/Function Chamber Quantification

Learn acquisition, analysis, and quantification of 2D, 3D, and 4D volumes data sets.

Strain and 3D on Congenital Heart Disease Patients

Learn proper acquisition techniques and analysis using strain and 3D.

WORKSHOP*

Perioperative Hands-On Transesophageal Workshop

This hands-on workshop is for clinical application of state-of-the-art imaging techniques.

NEW in 2022: DIY ACQUISITION ROOM*

The DIY Acquisition Room offers in-person registered participants the opportunity to get hands-on scanning experience on multiple different ultrasound systems. *Capacity is limited to 30 people per session.*

3D Echo *(Offered Twice)*

Learn how to acquire a 3D volume and assess LV function.

POCUS (Part 2) in Acute Vascular Disease and Access Complications

Learn how to rapidly identify abdominal aortic aneurysms, deep venous thrombosis, vascular access complications after coronary angiography (radial/femoral), and lower extremity arterial flow assessment in the advanced mechanical support device patient. *(Part 1 (Learn the Basics) is recommended prior to participation and will take place on Saturday at 10:00 AM. See page 7)*

Pediatric and Fetal Imaging

This session will present an opportunity to scan a fetus and child with normal cardiac anatomy with focus on acquisition and optimization of challenging views and anatomic sweeps. Several congenital cases will also be included with pathology specific imaging pearls provided.

Left Ventricular, Right Ventricular, and Left Atrial Strain *(Offered Twice)*

Learn how to acquire LV, RV, and LA strain data sets.

Adult Congenital Heart Disease

This session will provide the opportunity to master the assessment of lesions commonly encountered in ACHD clinics on congenital and non-congenital patients.

** Additional fee required for these sessions. Tickets sold during registration process.*



CONNECTING THE WORLD

ASE 2022 will feature exciting new ways of learning. In-person registrants can choose from 12 different educational tracks, while virtual learners will enjoy a live-stream from the main plenary room. More Chalk Talks than ever before allow for interactions with world-class experts and a new interactive game show, ShowCASE, is sure to offer great entertainment and education.



ASE CARES

ASE knows you need more than just clinical education. Spend time with the puppies in the Echo Expo Bark Park, and be sure to join us for the many social and networking events planned to give yourself time to recharge.



HANDS-ON LEARNING

Learning Labs, DIY Acquisition, and a Workshop offered throughout the program are an opportunity for smaller groups to interact with faculty or have hands-on learning. There are a total number of 13 different offerings. See page 3 for more details.



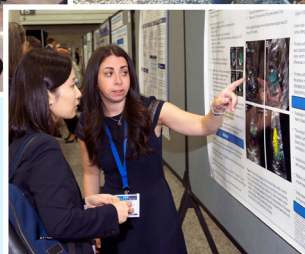
WORLD-CLASS SPEAKERS

The 33rd Annual Edler Lecture will be presented by Past President **Judy Hung, MD, FASE**, Massachusetts General Hospital. ASE Founder **Harvey Feigenbaum, MD, FASE**, Indiana University School of Medicine, will deliver the 23rd Annual Feigenbaum Lecture. **Olivier Villemain, PhD**, The Hospital for Sick Children, will give the Kalmanson Lecture, the Kerber Lecture will be delivered by **Linda K. Kerber, PhD**, University of Iowa, and **Suzanne Simard, PhD**, University of British Columbia, will present the Gardin Lecture.



PATIENT CARE

Take home useful information on the latest new technology, obtain an in-depth understanding of the newest ASE Guidelines, and learn how you can implement them in your practice.



CUTTING-EDGE RESEARCH

ASE 2022 will feature cutting-edge research posters on the latest advances in cardiovascular ultrasound and cases illustrating evolutions in patient care. Exceptional research will be featured throughout the Scientific Sessions.



PROFESSIONAL DEVELOPMENT

ASE 2022 offers sessions focused on your overall professional development including Maintaining Value in the Echo Lab, Advancing Your Academic Career for Physicians and Sonographers, and a Meet the Faculty Networking Session to name a few.



NETWORKING

Echo enthusiasts from all over the world attend the ASE Scientific Sessions. New this year are the ASE Council and Women in Echo Networking Events, and the ASE Specialty Interest Groups Welcome Reception on Friday afternoon. Back by popular demand are the President's Reception, Early Career Networking Event, and Echo Expo as the perfect places to meet colleagues, ASE leaders, and industry representatives.



SOMETHING FOR EVERYONE

ASE 2022 offers more sessions than any Scientific Sessions in the past. The hybrid format allows participants from around the world to join us in-person and virtually. Sessions from the main plenary room will be live streamed for our virtual audience. There are focused sessions in all areas of cardiovascular ultrasound including POCUS, Circulation and Vascular, Pediatrics, Structural Heart Disease, Perioperative, Innovation/Technology, and more!

ADULT CONGENITAL HEART DISEASE (A)

In line with the ASE's PCHD Council, the ACHD track addresses the adult-specific congenital cardiovascular diseases. The esteemed faculty will be presenting relevant topics that cover a wide spectrum of ACHD. These highly educational ACHD sessions offer an enriching practical learning opportunity for sonographers, physicians, and ACHD specialists.

CIRCULATION (C)

ASE's Council on Circulation & Vascular Ultrasound has selected relevant topics and valuable presentations that cover a broad-spectrum of arterial and venous diseases. The program is focused on advancing knowledge and clinical practice in vascular conditions.

EARLY CAREER (EC)

The Early Career session this year was created by ASE's Emerging Echo Enthusiasts (E3) Specialty Interest Group. Career development sessions for sonographers and physicians as well as knowledge translation across generations, debates, and a special faculty networking event have all been designed for early career physicians and sonographers.

IMAGING FUNDAMENTALS (F)

This track, designed by lead sonographer practitioners, focuses on basic to advanced echocardiographic concepts and practices for today's cardiac sonographer. These sessions will help to enhance and expand your practical and theoretical knowledge of echocardiography in the assessment of various cardiac diseases. This includes strain imaging and 3D echo. The Brian Haluska Sonographer Research Award Competition will showcase four of the best sonographer research abstracts for 2022.

INNOVATION/ TECHNOLOGY (IT)

The Innovation/Technology Track has been designed to communicate recent advances that improve quality. Topics include clinically-relevant innovations that improve diagnostic accuracy, quantification, and workflow and breakthrough cutting-edge technologies that will be used for treating the patients of tomorrow.

ISCHEMIA (I)

The Ischemia Track covers a diverse spectrum inclusive of obstructive and non-obstructive coronary diseases and stress echocardiography. Sessions will address physiology, pathophysiology, diagnosis, and clinical management using echocardiography and multimodality imaging.

MYOCARDIUM/ FUNCTION (M)

The Myocardium/Function Track addresses the core and advanced competencies of pathologies involving the myocardium and provides an update about standards of care. Included in this track are sessions on cardio-oncology and non-ischemic cardiomyopathies.

PEDIATRIC/ CONGENITAL (PC)

The ASE Council on Pediatric and Congenital Heart Disease (PCHD) has designed a program that will highlight echocardiography and advanced imaging modalities from fetus through adult. Established and upcoming experts in the field will come together to present sessions that will showcase global initiatives including COVID-19 after the pandemic, a fetal symposium, and the always popular Pediatric Jeopardy.

PERIOPERATIVE (P)

The Perioperative Track, designed by ASE's Council on Perioperative Echocardiography, brings together cardiac anesthesiologists, sonographers, cardiologists, and surgeons with the goal of sharing knowledge in cardiovascular care and perioperative/periprocedural echocardiography.

POINT OF CARE (POC)

The Point of Care track focuses a wide spectrum of cardiovascular ultrasound applications by practitioners from diverse training backgrounds, and is inclusive of basic point of care ultrasound (POCUS) through advanced critical care echocardiography. Skillful acquisition, interpretation, and integration of POC findings assist in the rapid bedside diagnosis of important cardiovascular pathology.

RESEARCH (R)

Investigators will present the latest advances in cardiovascular ultrasound throughout the conference, and in a new "Best of Imaging Research" session. Don't miss two special competitions designed to acknowledge exceptional research—the Brian Haluska Sonographer Research Award Competition and the prestigious Arthur E. Weyman Young Investigator's Award Competition, where the four best abstracts submitted compete in front of a panel of luminaries for international recognition. Also, meet the investigators during dedicated poster viewing times in the Echo Expo.

SPECIAL SESSIONS (S)

The 2022 Program Committee has designed the Special Sessions Track to highlight outstanding educational content. Join us for the special session ShowCASE for an interactive case-based game on Sunday afternoon. Other special sessions include Global Artificial Intelligence, Women in Echo, the Value Summit, and more.

VALVES & STRUCTURAL HEART DISEASE (V)

This track has been designed to integrate expertise from all members of the Structural Heart Team (including sonographers, cardiologists, cardiac anesthesiologists). Transcatheter interventions will be reviewed, providing case-based examples for learning. Sessions will highlight the success, challenges, and emerging tools of interventional echocardiography.

SCHEDULE AT A GLANCE

FRIDAY, JUNE 10

All times are Pacific time.

| REGISTRATION OPEN 12:00 – 6:30 PM | | | |
|-----------------------------------|--|---|---|
| 2:00 – 3:30 PM | PC Echo Path Session | F What's to Gain from Strain | S IAC Echocardiography Boot Camp |
| 3:30 – 3:45 PM | REFRESHMENT BREAK | | |
| 3:45 – 5:30 PM | COUNCIL ON CIRCULATION AND VASCULAR ULTRASOUND NETWORKING EVENT | COUNCIL ON PEDIATRIC AND CONGENITAL HEART DISEASE NETWORKING EVENT AND NOMENCLATURE FEST | COUNCIL ON PERIOPERATIVE ECHOCARDIOGRAPHY NETWORKING EVENT |
| 5:30 – 6:30 PM | WELCOME RECEPTION FEATURING ASE'S SPECIALTY INTEREST GROUPS | | |

ECHO EXPO

The exchange of information and access to new concepts, technology, devices, and research is a vital component of professional development. Get face-to-face with the industry's leading developers and executives who can help you discover what is new, assist you in making the right choices for your institution, and show you ways to reduce costs and improve productivity. The Echo Expo will open with the President's Reception on Saturday afternoon, which is always a highly anticipated event where you can see new products launched. On Sunday and Monday, join luminary faculty during the session breaks on the exhibit floor for intimate Q&A sessions in the Chalk Talk theater.

Research is the heart of every ASE Scientific Sessions. A showcase of electronic posters will feature investigators from around the world presenting cutting-edge research on the latest advances in cardiovascular ultrasound on Sunday and Monday in the Echo Expo. Gain firsthand knowledge and insight from interacting with the scientific investigators.



New this year, we will offer two Science and Technology Theaters within the Echo Expo. This allows for more opportunities to learn the latest information on advances in technology and practice. These industry-supported sessions are independently planned and are not a part of the official ASE 33rd Annual Scientific Sessions as planned by the Program Committee or in any way directly endorsed or affiliated with ASE. These sessions are not included in the ASE approved CME credit.

ACHD (A) **CIRCULATION (C)** **EARLY CAREER (EC)** **IMAGING FUNDAMENTALS (F)** **INNOVATION/TECHNOLOGY (IT)** **ISCHEMIA (I)** **MYOCARDIUM/FUNCTION (M)**
PEDIATRIC/CONGENITAL (PC) **PERIOPERATIVE (P)** **POINT OF CARE (POC)** **RESEARCH (R)** **SPECIAL SESSIONS (S)** **VALVES & STRUCTURAL HEART DISEASE (V)**

SATURDAY, JUNE 11

All times are Pacific time.

| REGISTRATION OPEN: 6:00 AM – 6:15 PM / ECHO EXPO OPEN: 3:30 – 6:15 PM | | | | | | |
|---|---|---|--|--|---|--|
| 7:00 – 9:30 AM | LIVE STREAM S STATE OF ASE, 2022 AWARDS PRESENTATION, FASE RECOGNITION, and 33 RD ANNUAL EDLER LECTURE by Judy Hung, MD, FASE | | | | | |
| 9:30 – 10:00 AM | REFRESHMENT BREAK CHALK TALK: Advanced Hemodynamics in Hypertrophic Cardiomyopathy | | | | | |
| 9:30 – 11:30 AM | WORKSHOP: Perioperative Hands-On Transesophageal Echocardiography Dataset (Ticketed Event. Additional Fee Required) | | | | | |
| 9:30 – 11:30 AM | LEARNING LAB: 3D Cropping (Valves) (Ticketed Event. Additional Fee Required) | | | | | |
| 10:00 – 11:30 AM | LIVE STREAM EC Knowledge Translation Across the Generations: Case Based Learning | VR Interventional Echo Basics for Beginners: Tips Today for Use Tomorrow | C POCUS (Part 1) in Acute Vascular Disease and Access Complications: Learn the Basics! | SR Best of Imaging Research | PC New Waves to Assess Ventricles <i>Kalmanson Lecture</i> | |
| 10:00 – 11:30 AM | F DIY ACQUISITION ROOM: 3D Echocardiography (Ticketed Event. Additional Fee Required) | | | | | |
| 11:30 AM – 1:00 PM | LUNCH BREAK CHALK TALK: E21 Grantees (12:00 – 12:45 PM) | | | | | |
| 12:00 – 2:00 PM | LEARNING LAB: Basic Myocardial Strain Imaging (LV, RV, LA) (Ticketed Event. Additional Fee Required) | | | | | |
| 1:00 – 2:30 PM | LIVE STREAM V Standards for the Performance of TEE Screening for Structural Heart Intervention | M Echo-OR Correlation | S Looking Good: Practical Tips to Optimize Images and Assure Quality Improvement | IT Great Debates: Waves vs. Particles | AR Challenges of Adult Congenital Heart Disease | F 3D Echo: It's Totally Worth It |
| 1:00 – 2:30 PM | C DIY ACQUISITION ROOM: POCUS (Part 2) in Acute Vascular Disease and Access Complications (Ticketed Event. Additional Fee Required) | | | | | |
| 2:30 – 3:00 PM | REFRESHMENT BREAK CHALK TALK: Strain Imaging and Left Ventricular Mechanics | | | | | |
| 2:30 – 4:30 PM | LEARNING LAB: Advanced Myocardial Strain Imaging (LV, RV, LA) (Ticketed Event. Additional Fee Required) | | | | | |
| 3:00 – 4:00 PM | LIVE STREAM C New Approaches to Vascular Imaging: Arteriopathy | I Is My Lab Ready for Contrast Perfusion Stress Echocardiography? Tips and Tricks | S WASE Research in Depth | EC Sonographer Career Development Pathways | P Prediction: Can We See the Future? | A Thinking Outside the Box in Adult Congenital Heart Disease |
| 3:00 – 4:00 PM | F DIY ACQUISITION ROOM: 3D Echocardiography (Ticketed Event. Additional Fee Required) | | | | | |
| 4:00 – 6:00 PM | PRESIDENT'S RECEPTION ECHO EXPO | | | | | |
| 4:30 – 5:15 PM | SCIENCE AND TECHNOLOGY THEATER: BRISTOL MYERS SQUIBB | | | | | |
| 5:30 – 6:15 PM | SCIENCE AND TECHNOLOGY THEATERS: TBD | | | | | |
| 6:30 – 10:30 PM | ASE FOUNDATION SCAVENGER HUNT (Ticketed Event. Additional Fee Required) | | | | | |

ACHD (A) **CIRCULATION (C)** **EARLY CAREER (EC)** **IMAGING FUNDAMENTALS (F)** **INNOVATION/TECHNOLOGY (IT)** **ISCHEMIA (I)** **MYOCARDIUM/FUNCTION (M)**
PEDIATRIC/CONGENITAL (PC) **PERIOPERATIVE (P)** **POINT OF CARE (POC)** **RESEARCH (R)** **SPECIAL SESSIONS (S)** **VALVES & STRUCTURAL HEART DISEASE (V)**

SCHEDULE AT A GLANCE

SUNDAY, JUNE 12

All times are Pacific time.

| REGISTRATION OPEN: 6:30 AM – 5:00 PM / ECHO EXPO OPEN: 9:00 AM – 2:45 PM | | | | | | |
|--|---|---|--|---|--|---|
| 7:00 – 8:30 AM | LIVE STREAM P R Hot Topics in Structural Heart Disease | PC Fetal Symposium: Improving Predictions (7:30-9:00 AM) | | | | |
| 7:30 – 9:00 AM | F DIY ACQUISITION ROOM: Left Ventricular, Right Ventricular, and Left Atrial Strain (Ticketed Event. Additional Fee Required) | | | | | |
| 7:30 – 9:30 AM | LEARNING LAB: 3D Cropping (Valves) (Ticketed Event. Additional Fee Required) | | | | | |
| 8:30 – 9:00 AM | LIVE STREAM GARDIN LECTURE by Suzanne Simard, PhD | | | | | |
| 9:00 – 9:30 AM | REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: Novel Uses of Agitated Saline and Contrast in Ultrasound | | | | | |
| 9:00 – 9:45 AM | SCIENCE AND TECHNOLOGY THEATER: ABBOTT SCIENCE AND TECHNOLOGY THEATER: PFIZER | | | | | |
| 9:30 – 11:00 AM | LIVE STREAM S Women in Echo (Joint ASE/EACVI Session) | POC Innovation Through Collaboration: Tackling POCUS Training and Education from a Multi-Specialty Perspective | S Advances in Echo in Assessment of Congenital Heart Disease (Joint ASE/JSE Session) | VR Intracardiac Imaging: Preparing for the ICE Storm | IR Stress Echo in Special Populations | F Educator Summit: Contrast and Competency (Limited Attendance) |
| 9:30 – 11:00 AM | PC DIY ACQUISITION ROOM: Pediatric & Fetal (Ticketed Event. Additional Fee Required) | | | | | |
| 11:00 – 1:00 PM | LUNCH BREAK: VISIT ECHO EXPO MODERATED POSTERS: ECHO EXPO CHALK TALK: The Future of QI in Pediatric Cardiology: The QI Consortium | | | | | |
| 11:15 AM – 12:15 PM | SCIENCE AND TECHNOLOGY THEATER: GE HEALTHCARE SCIENCE AND TECHNOLOGY THEATER: PHILIPS HEALTHCARE | | | | | |
| 11:30 AM – 1:30 PM | LEARNING LAB: 3D Volume Function (Ticketed Event. Additional Fee Required) | | | | | |
| 1:00 – 2:00 PM | LIVE STREAM POC Multispecialty POCUS in a Continuum of Care for the Critically Ill | PC Neonatologist Performed Targeted Neonatal Echo: Evolution of the Field, Contemporary Perspectives and Impact on Clinical Outcomes (Neonatal Hemodynamics TrECHO SIG Session) | S R Brian Haluska Sonographer Research Award Competition | P Perioperative Case Dilemmas: Role of Imaging to Optimize Patient Care | EC Advancing Your Academic Career (for Physicians) | C Diagnosis and Novel Intervention for the High-Risk Pulmonary Embolism |
| 2:00 – 2:30 PM | REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: AORTIC STENOSIS: CLARIFYING THE CONCEPTS OF SEVERITY | | | | | |
| 2:00 – 2:45 PM | SCIENCE AND TECHNOLOGY THEATER: ULTRONICS | | | | | |
| 2:30 – 3:30 PM | LIVE STREAM IT CROP OFF! | PC Pediatric Jeopardy | | | | Women in Echo Networking Session featuring the Kerber Lecture by Linda K. Kerber, PhD |
| 3:30 – 5:00 PM | LIVE STREAM M R Multimodality Imaging in Cardiomyopathy | S ShowCASE: Interactive Gameshow & Twitter Event | | | | |
| 7:00 – 11:00 PM | ASE FOUNDATION RESEARCH AWARDS GALA (Ticketed Event. Additional Fee Required) | | | | | |

ACHD (A) CIRCULATION (C) EARLY CAREER (EC) IMAGING FUNDAMENTALS (F) INNOVATION/TECHNOLOGY (IT) ISCHEMIA (I) MYOCARDIUM/FUNCTION (M)
PEDIATRIC/CONGENITAL (PC) PERIOPERATIVE (P) POINT OF CARE (POC) RESEARCH (R) SPECIAL SESSIONS (S) VALVES & STRUCTURAL HEART DISEASE (V)

MONDAY, JUNE 13

All times are Pacific time.

| REGISTRATION OPEN: 7:30 AM – 5:30 PM / ECHO EXPO OPEN: 10:00 AM – 4:00 PM | | | | | | |
|---|---|---|--|--|---|--|
| 8:00 – 10:00 AM | LIVE STREAM S R ARTHUR E. WEYMAN YOUNG INVESTIGATOR COMPETITION and 23 RD ANNUAL FEIGENBAUM LECTURE by Harvey Feigenbaum, MD, FASE | | | | | |
| 10:00 – 10:30 AM | REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: WHAT IS THE VOLUME STATUS OF MY PATIENT: HOW POCUS CAN HELP | | | | | |
| 10:30 – 11:15 AM | SCIENCE AND TECHNOLOGY THEATERS: TBD | | | | | |
| 11:00 AM – 12:30 PM | LIVE STREAM I R Stress Echo: Intersection of Guidelines and Clinical Practice | S Value Summit: Maintaining Value in the Echo Lab | M R Deep Dive into the Atria | A R Multidisciplinary Approach to Complex Adult Congenital Heart Disease Cases | F Mitral Regurgitation: Stuff You Should Know | IT R Veterinary Echo Cases |
| 11:00 AM – 12:30 PM | F DIY ACQUISITION ROOM: Left Ventricular, Right Ventricular, and Left Atrial Strain (Ticketed Event. Additional Fee Required) | | | | | |
| 11:00 AM – 2:30 PM | PC LEARNING LAB: Strain/3D in Congenital Heart Disease Patients (Ticketed Event. Additional Fee Required) | | | | | |
| 12:30 – 2:00 PM | LUNCH BREAK: VISIT ECHO EXPO MODERATED POSTERS: ECHO EXPO CHALK TALK: From Twitter To Tenure: How to Effectively Use Social Media as an Echocardiographer | | | | | |
| 12:45 – 1:45 PM | SCIENCE AND TECHNOLOGY THEATER: BRACCO SCIENCE AND TECHNOLOGY THEATER: LANTHEUS MEDICAL IMAGING INC. | | | | | |
| 2:00 – 3:30 PM | LIVE STREAM PC R COVID After the Pandemic | S Global Artificial Intelligence (Joint ASE/EACVI Session) | C R Screening and Diagnosis of Complex Aortic Disease | V R Establishing a Structural Interventional Imaging Program: An Echocardiographer's Perspective | M Decoding Mysteries of a Thick Heart | EC Great Debates: 3D, Artificial Intelligence, and Multimodality Imaging |
| 2:00 – 3:30 PM | A DIY ACQUISITION ROOM: Adult Congenital Heart Disease (Ticketed Event. Additional Fee Required) | | | | | |
| 3:30 – 4:00 PM | REFRESHMENT BREAK: VISIT ECHO EXPO AND POSTERS CHALK TALK: Educating Fellows in the Art of Imaging | | | | | |
| 4:00 – 5:30 PM | LIVE STREAM F Discordant Data Dilemmas in Aortic Stenosis | POC Great Debates: Transesophageal Echocardiography During Cardiac Arrest Resuscitation | IT Deploying Artificial Intelligence Systems in the Echo Lab | P Great Debates: Approaches to Mitral Regurgitation and 3D Quantification | C CODE AORTA! Management and Surveillance of Acute Aortic Syndromes | M Contemporary Role of Echo in Cardio-Oncology |
| 4:00 – 5:30 PM | EC MEET THE FACULTY NETWORKING SESSION | | | | | |
| 6:00 – 9:00 PM | FACULTY RECEPTION (INVITATION ONLY) | | | | | |

Accreditation and Designation

ASE is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

ASE designates this live activity for a maximum of **23 AMA PRA Category 1 Credits™** pending approval. Registration also includes on-demand access to an additional 44 sessions for up to an additional **52 AMA PRA Category 1 Credits™** pending approval.

Successful completion of this CME activity may allow participants to earn MOC points in the Maintenance of Certification (MOC) programs for:

- American Board of Internal Medicine (ABIM)
- American Board of Pediatrics (ABP)
- Royal College of Physicians and Surgeons of Canada

It can also qualify for MOCA® points in The American Board of Anesthesiology® (ABA) Maintenance of Certification in Anesthesiology Program®.

The following organizations have a mutual recognition of AMA CME credit:

- European Union of Medical Specialists (UEMS)-European Accreditation Council for Continuing Medical Education (EACCME)
- European Board of Accreditation in Cardiology (EBAC)

The following organizations honor the credit hours toward their registry requirements for sonographers:

- ARDMS
- CCI
- Sonography Canada

Conference organizers plan to apply for *AAPA Category 1 CME credits* from the AAPA Review Panel. The total number of approved credits is yet to be determined.

Attending this course can also help you achieve all the CME you need to meet IAC CME requirements for echo lab physicians and sonographers.



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Schedule subject to change. For detailed information, visit [ASEScientificSessions.org](https://www.ase-scientific-sessions.org).

SEATTLE CONVENTION CENTER AND SURROUNDING AREA

With a convenient location in downtown Seattle, Washington, the Seattle Convention Center (formerly the Washington State Convention Center) is only 14 miles from the Seattle Tacoma International Airport (SEA). The Seattle Convention Center is located at 705 Pike Street, Seattle, WA 98101

The Emerald City

Seattle is a sightseer's paradise and isn't nicknamed the Emerald City by accident — the greenery is something to behold year-round. Everyone should experience the **Space Needle** and **Pike Place Market** at least once, but Seattle has so much to offer, from major attractions to unexpected surprises. Take in stunning views from vantages around town, including Kerry Park and the Seattle Great Wheel on the waterfront, and take in the beauty of more than a thousand colorful glass discs suspended overhead in **Chihuly Garden and Glass**. ASE's headquarters hotels are within walking distance of Pike Place Market and the waterfront.

Discovery Park is a 534-acre city park with nearly 12 miles of walking trails. You can visit the **West Point Lighthouse** for a postcard-worthy photo op. **Mount Si** is one of the most popular hikes in the area enjoyable for casual day hikers traveling at a leisurely pace. If you have time before or after the Scientific Sessions, you might want to plan a day trip to **Mount Rainier**. A two-and-a-half-hour drive outside the city, you can visit this active volcano. There are trails that are both beginner-friendly and suited for expert climbers. If hiking isn't really your idea of relaxing, you can sip offerings from more than **100 different Washington wineries** in nearby Woodinville.

The art scene in Seattle is where you can discover the city's cultured, fun, and playful personality. Museums, galleries, and nontraditional spaces showcase art from old masters to modern. Dancers, artists, musicians, and writers showcase their craft in new and unexpected ways. The city is home to more than **80 theater companies**, presenting new work and classic favorites in captivating productions on stage.

Seattle offers exciting adventures for the whole family to enjoy. Museums—specializing in everything from airplanes and computers to pop culture and hands-on activities—provide hours of fun. The **Seattle Aquarium** and **Woodland Park Zoo** feature up-close animal encounters. As an added bonus, many **Seattle breweries** and restaurants are family friendly.

Speaking of restaurants, there are a wide-variety to choose from while visiting Seattle. From James Beard Award-winning restaurants to budget-friendly eats, Seattle is awash with fantastic dining options including fresh seafood, Asian fusion fare, classic French flavors, and everything in between.

To explore and learn more go to VisitSeattle.org.

HOUSING

ASE has secured a room block at two hotels conveniently located just a two-minute walk to the Seattle Convention Center. Both hotels are attractively priced and within walking distance to restaurants, entertainment, and many more attractions. ASE's group rate is available three (3) days prior and three (3) days after ASE 2022 (June 10-13, 2022) based on availability.

Sheraton Grand Seattle – Headquarters Hotel

1400 6th Avenue, Seattle, WA 98101 USA

The Sheraton Grand Seattle room rates start at \$259 USD plus tax per night (based on single/double occupancy). The block will be held until May 18, 2022 (5:00 PM PT), or until the block is sold out. After this date, reservations will be accepted on a space-available and rate-available basis.

Grand Hyatt Seattle

721 Pine Street, Seattle, WA 98101 USA

The Grant Hyatt Seattle room rates start at \$295 USD plus tax per night (based on single/double occupancy). The block will be held until May 22, 2022 (5:00 PM PT), or until the block is sold out. After this date, reservations will be accepted on a space-available and rate-available basis.

For more information on making your hotel reservation, please visit ASEScientificSessions.org/Housing

ASE'S LIVE COURSE COVID-19 STATEMENT

In-person registrants for ASE 2022 will be asked to agree to the terms outlined online at ASEcho.org/Live-Course-Statement to register and attend ASE's Scientific Sessions.

FAMILY RESOURCES

Lactation Suite

A complimentary lactation suite will be available located close to sessions, offering mothers a comfortable and private setting. The room will have standard AC power outlets and USB charger ports, as well as access to a refrigerator, located nearby in the child care room.

Child Care

ASE is pleased to offer ASE 2022 attendees access to on-site child care. This service will be available from Friday-Monday, and available for newborns to children age 12. This will be located at the Seattle Convention Center, in close proximity to all sessions. To learn more about child care and nursing suites at ASE 2022, as well as register for child care services, please visit the Family Resources page at ASEScientificSessions.org/FamilyResources.



ASE 2022 MEETING APP

Stay up-to-date on the Scientific Sessions by downloading the free ASE Courses app. Find detailed information including faculty, agendas, exhibitors, networking events, and more. Search for "ASE Courses" in the Google Play or Apple stores.

Register for the ASE 33rd Annual Scientific Sessions by visiting ASEScientificSessions.org.

ASE 2022 Scientific Sessions will be held at the Seattle Convention Center, located at 705 Pike St, Seattle, WA 98101, just minutes from the Seattle-Tacoma International Airport (SEA).

ASE 2022 REGISTRATION RATES

Your ASE 2022 registration fee includes CME/MOC credit, admission to the Echo Expo, breakfast, coffee breaks, Council Networking Events, Welcome Reception, and President's Reception. If you are an ASE member and have not renewed your membership for 2022, renew today so you can register at the member rate and SAVE.

This year, we are offering two different registration types:

ASE 2022 In-Person: Registration includes all the live sessions, choice between 12 tracks, up to 23 CME/MOC points, 44 additional on-demand sessions for up to an additional 52 CME/MOC credits. On-demand access from Monday, July 11, 2022, to Sunday, October 9, 2022.

ASE 2022 Virtual: Registration includes live streaming from the main plenary room, up to 20 CME/MOC points, 44 additional on-demand sessions for up to an additional 52 CME/MOC credits. On-demand access from Monday, July 11, 2022, to Sunday, October 9, 2022.

Want access to recordings of all 60 in-person sessions? You can purchase the **ASE 2022 Conference Online Library** as a bundle with registration, and receive a small discount off the Library prices. If you purchase the Library separately, the price is \$199 for ASE members and \$250 for nonmembers. The price will increase after the conference to \$299 for ASE members and \$399 for nonmembers. The Library includes unlimited online access, for three years, to the 2022 Scientific Sessions including live audio, screen capture with animation, mouse pointer and embedded video. *Keynote, DIY, Workshops, and Computer Labs not included.*

| ASE 2022 IN-PERSON REGISTRATION | | | | | | | | |
|--|----------------------------------|--|-------------------------------|--|---------------------------------|---|------------------------------|---|
| Category | ASE Member* Through May 10 | ASE Member* Bundle with Online Library Through May 10 | ASE Member* Through June 9 | ASE Member* Bundle with Online Library Through June 9 | Nonmember* Through May 10 | Nonmember* Bundle with Online Library Through May 10 | Nonmember* Through June 9 | Nonmember* Bundle with Online Library Through June 9 |
| Physician/ Scientist | \$1,195 | \$1,375 | \$1,295 | \$1,475 | \$1,630 | \$1,875 | \$1,730 | \$1,975 |
| Sonographer/ Allied Health/ Veterinarian | \$730 | \$910 | \$830 | \$1,010 | \$1,045 | \$1,290 | \$1,145 | \$1,390 |
| Fellow in Training | \$450 | \$630 | \$550 | \$730 | \$630 | \$875 | \$730 | \$975 |
| Student Sonographer/ Allied Health | \$425 | \$605 | \$525 | \$705 | \$630 | \$875 | \$730 | \$975 |
| Abstract Presenter** | \$400 | \$580 | \$500 | \$680 | \$650 | \$895 | \$750 | \$995 |
| Special Registrations | Rates Through May 10 | Bundle with Online Library Through May 10 | Rates Through June 9 | Bundle with Online Library Through June 9 | | | | |
| One Day Rate | \$305 | no bundle | \$405 | no bundle | | | | |
| Corporate/ Industry/Other | \$1,635 | \$1,815 | \$1,735 | \$1,915 | | | | |

| ASE 2022 VIRTUAL REGISTRATION | | | | | | | | |
|-------------------------------|---------------------------------|---|------------------------------|--|--------------------------------|--|-----------------------------|---|
| Category | ASE Member Through May 10 | ASE Member Bundle with Online Library Through May 10 | ASE Member Through June 9 | ASE Member Bundle with Online Library Through June 10 | Nonmember Through May 10 | Nonmember Bundle with Online Library Through May 10 | Nonmember Through June 9 | Nonmember Bundle with Online Library Through June 10 |
| United States | \$995 | \$1,175 | \$1,095 | \$1,275 | \$1,365 | \$1,610 | \$1,465 | \$1,710 |
| International† | \$500 | \$680 | \$600 | \$780 | \$1,365 | \$1,610 | \$1,465 | \$1,710 |
| Abstract Presenter** | \$400 | \$580 | \$500 | \$680 | \$650 | \$895 | \$750 | \$995 |

* On-site registration is available, but beginning June 10, 2022, all fees will increase by an additional \$125.

**IMPORTANT NOTE FOR ABSTRACT PRESENTERS: If you are submitting an abstract for ASE 2022 and wish to receive the discounted rate for abstract presenters, please do not register prior to receiving acceptance notification on April 1, 2022. No refunds will be given for registrations made prior to notification. If you will be serving as faculty at the Scientific Sessions, please do not register as there will be a separate process.

† INTERNATIONAL REGISTRATION (Virtual Registrations Only): includes CME and is designated for anyone who resides outside of the United States.



ASE Foundation

American Society of Echocardiography
2530 Meridian Parkway, Suite 450
Durham, NC 27713

EARLY REGISTRATION ENDS MAY 10, 2022. REGISTER TODAY!

American Society of Echocardiography

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33rd Annual Scientific Sessions
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