SATURDAY, AUGUST 8

Channel Discovery – Future of Echo
10:30 – 11:00 AM  ASE President's Address and State of ASE
- State of ASE
- Board of Directors Induction and Announcements
- Incoming President’s Address

11:00 AM – 12:30 PM Artificial Intelligence and What It Means to You
- Gardin Lecture: My Life on Artificial Intelligence: How Technology Will Change the Way We Live
- Where the Puck is Going: Why Interest and Investment Are All in Artificial Intelligence?
- Artificial Intelligence: Large Impact Scalable Applications in Medicine
- Artificial Intelligence in Medicine: Master Clinician vs. Faster Computer - Who Wins?
- How Artificial Intelligence Can Save Echocardiography
- Fundamental Artificial Intelligence for the Echocardiographer/Sonographer
- A Sonographer Perspective on Artificial Intelligence

Channel Insight – Pediatrics
11:00 AM – 12:30 PM Stronger Together
- COVID-19 Pandemic: Recommendations for Pediatric Echocardiography
- COVID-19 Pandemic: Sonographer Perspective

On the Horizon
- The Latest and Greatest in Pediatric Cardiac Imaging: Year in Review
- Future of Pediatric Echo Research
- Fetal Cardiac Imaging and Therapeutics: Where Should We Be in 2030?
- Echo-Nomics of Pediatric Cardiac Care: What Does the Future Hold for Us?

Channel Discovery – Future of Echo
1:30 – 2:00 PM  Chalk Talk: Doppler
2:00 – 2:30 PM  Chalk Talk: Echo in Pulmonary Hypertension

Channel Explorer – Progress in Science & Technology
1:30 – 2:30 PM  50 Shades of Grey (Scale) in Peri-Procedural Imaging
- Complex Mitral Assessment (Under Anesthesia)
- What Do Procedural Gradients Actually Tell Us?
- Diastology in the Peri-Procedural Setting

As of June 12, 2020: Sessions Subject to Change
SATURDAY, AUGUST 8

Channel Guidepoint – Guidelines and Best Practices
1:30 – 2:30 PM  Simulated Heart Valve Team Cases Discussion: Mitral
- Valve in Mitral Annular Calcification, Valve in Native Valve, Valve in Ring or Percutaneous New Mitral Valve
- Functional Mitral Regurgitation Clip
- Structural Mitral Regurgitation Clip

Channel Insight – Pediatrics
1:30 – 2:30 PM  Renaissance in Cardiac Imaging to Assist Cardiac Interventions (Joint ASE/EACVI Session)
- 3D TEE
- Fusion Imaging
- 3D Printing
- Medical Holography
- Virtual Reality

Channel Discovery – Future of Echo
4:00 – 5:30 PM  Episode of Care 1: Coronary Disease
- POCUS
- CT
- Nuclear
- Echo Sonographer
- Echo Cardiographer
- Cath Lab
- CT Surgeon
- Peri-OP
- ICU Care
- MRI

Channel Explorer – Progress in Science & Technology
4:00 – 5:00 PM  Active Echocardiography: Advances in Ultrasound Therapeutics
- Kalmanson Lecture: Therapeutic Methods for Cardiovascular Tissue Ablation
- Gene/Drug Delivery
- Augmented Thrombolysis
- Modulation of Tissue Perfusion
- Ultrasound Alteration of Basic Cell Function

Channel Guidepoint – Guidelines and Best Practices
4:00 – 5:00 PM  Educator Summit: Contrast and Competency
- Introduction and Overview of Session, Legal, and Policy Considerations
- Methods of Testing Competency
- Practical Competency for Educators
- Sonographer Perspectives
SATURDAY, AUGUST 8

Channel Insight - Pediatrics
4:00 – 5:00 PM  Quality and Value Summit
- Echo Complexity Score: How Can It Impact Quality and Efficiency of a Lab?
- Practice Variation in Pediatric Echo Labs
- Multimodality Imaging in A Value-Based Healthcare System
- Debate Quality Metrics: Adds Value to Patient Care and We Need More!
- Debate Quality Metrics: We Have Enough Already, Not Sure What to Do with Them!
- The ASE Council on Pediatric Echocardiography Laboratory Productivity Survey 4: Pediatric Echocardiography Labs Maintain Productivity While Increasing Study Volume and Incorporating New Technologies

SUNDAY, AUGUST 9

Channel Discovery – Future of Echo
11:00 AM – 12:30 PM  Edler Lecture: “The Role of Imaging Today for Developing Drugs of Tomorrow”
Echo and COVID-19
- Epidemiology of COVID-19
- Echo Findings in COVID-19
- Bedside Focused Cardiac Ultrasound in COVID-19 Infection from the Wuhan Epicenter
- Protection of Patients
- Sonographer Considerations
- Perioperative Considerations
- Echocardiography in the Time of COVID-19
- Reopening the Echo Lab

Channel Insight - Pediatrics
11:00 – 12:30 PM  Fetal Symposium: Current and Upcoming Strategies in Management of Fetal Cardiac Disease
- New Frontiers in Fetal Cardiac Imaging
- Home Monitoring for Fetal Heart Rhythm
- International Fetal Cardiac Interventions Registry: Lessons Learned
- Assessing the Heart in A Fetus with Extracardiac Anomalies
- Perinatal Level of Care Guidelines-Impact on Clinical Outcomes
- Maternal Hyperoxygenation Testing in Fetuses with Hypoplastic Left Heart Syndrome: Predicting Postnatal Physiology
SUNDAY, AUGUST 9

Channel Discovery – Future of Echo
1:00 – 2:30 PM  Episode of Care 2: Mitral Valve Disease
• POCUS
• CT
• Echo Sonographer
• Echo Cardiographer
• MRI
• Cath lab
• CT surgeon
• PeriOP
• ICU Care

Channel Explorer – Progress in Science & Technology
1:30 – 3:00 PM  Arthur E. Weyman Young Investigator’s Award Competition and the 20th Annual Feigenbaum Lecture
• YIA-1: Ultrasound Enhanced S100A4-shRNA Delivery Using Acoustically Activated Cationic Lipid Nanodroplets to Reach and Treat Myocytes within the Developing Scar Zone
• YIA-2: Projected Transmitral Gradient: A Novel Tool for Assessment of Mitral Stenosis
• YIA-3: Exploring the Phenotypic Spectrum of Left Ventricular Hypertrophy in Hypertension and Hypertrophic Cardiomyopathy Using a Machine-Learning Approach: A Pilot Study
• YIA-4: Deep Learning Models of Diastolic Dysfunction: Insights from the TOPCAT Echocardiography Sub-Study
• Feigenbaum Lecture: Beyond Artificial: Echocardiography from Elegant Images to Analytic Intelligence

Channel Guidepoint – Guidelines and Best Practices
1:30 – 2:30 PM  Cardio-Oncology in the Real World (Joint ASE/EACVI Session)
• Case 1 – Discussion: Traditional Cardio-Toxicity
• Case 2 – Discussion: Cardiac Effects of Novel Cancer Therapeutics
• Case 3 – Discussion: “But Wait, There’s More:” Cardio-Oncology Beyond the Myocardium

Channel Insight - Pediatrics
1:30 – 2:30 PM  Challenging Cases: Fetus to Adults with Congenital Heart Disease
• Fetus with Ebstein Anomaly: What Predicts Perinatal Outcomes?
• A Neonate with CC-TGA: When and How to Intervene?
• Double-Outlet Right Ventricle with Straddling Atroventricular Valve: Is Biventricular Repair Feasible?
• Infant with Complete Atroventricular Canal Defect: How Can 3D Echo Help?
• Young Adult with A New Diagnosis of Coarctation: What Else Do I Need to Look For?
• Young Adult with Repaired Tetralogy of Fallot: How to Assess Melody Valve Dysfunction?
SUNDAY, AUGUST 9

Channel Discovery – Future of Echo
4:00 – 4:30 PM  Chalk Talk: Contemporary Evaluation of Valve Disease
5:00 – 5:30 PM  Chalk Talk: Fundamentals and Applications of Strain

Channel Explorer – Progress in Science & Technology
4:00 – 5:00 PM  Echo Technology at the Cutting Edge of Knowledge
• Kerber Lecture
• Echo as an Endpoint in Clinical Trials: Successes and Pitfalls
• Harnessing Big Echo Data: Novel Methods
• Echo as a Tool for Hemodynamic Assessment
• Understanding Congenital Heart Disease Through New Imaging Technology

Channel Guidepoint – Guidelines and Best Practices
4:00 – 5:00 PM  Echo in Acute Myocardial Infarction: From Diagnosis to Therapy
• Original Research: Myocardial Contrast Echocardiography in Acute Myocardial Infarction or acute Myocardial Infarction Sonothrombolysis
• Myocardial Contrast Echocardiography and Wall Motion Assessment for Chest Pain in the Emergency Department
• Myocardial Contrast Echocardiography for Assessment of Viability and Residual Ischemia Post Fibrinolytic Therapy
• Sonothrombolysis in Acute Myocardial Infarction
• Coming down the Pike: Innovations in Myocardial Infarction Diagnosis and Therapy

Channel Insight - Pediatrics
4:00 – 5:00 PM  Imaging Solutions to Clinical Conundrums in Congenital Heart Disease
• Bi-ventricular Conversion
• Anomalous Origin of Coronaries
• D-TGA

Channel Discovery – Future of Echo
5:00 – 6:30 PM  Episode of Care 3: Cardiomyopathy - MCS - Transplant
• POCUS
• CT
• Nuclear
• Echo Sonographer
• Echo Cardiographer
• Cath lab
• CT surgeon
• PeriOP
• ICU care
• MRI

As of June 12, 2020: Sessions Subject to Change
SUNDAY, AUGUST 9

Channel Explorer – Progress in Science & Technology
5:30 – 6:30 PM **Inflammatory Cardiovascular Diseases** (Joint ASE/JSE Session)
- Cardiac Sarcoidosis: Role of Echocardiography in Multimodality Imaging
- Cardiac Disorders in Connective Tissue Diseases
- HIV
- Arterial Inflammatory Diseases: Takasayu, Kawasaki, CSS, WG, PAN, Behcets
- Sepsis: The Role of Inflammation
- Non-Traditional Causes of Cardiac Inflammation

Channel Guidepoint – Guidelines and Best Practices
5:30 – 6:30 PM **HFpEF: Everything You Need to Know…and More**
- Ventricular and Vascular Physiology, and Hemodynamics
- Myocardial Relaxation and Stiffness in The Era of Mechanics
- How Will We Measure Diastolic Function 10 Years from Now?
- Case Discussion: What to Do When the Numbers Don’t Fit the Guidelines?
- Case Discussion: Clues to Etiology of HFpEF
- Case Discussion: Exercise Testing

Channel Insight - Pediatrics
5:30 – 6:30 PM **Multimodality Imaging from Fetus to Young Adults**
- Aorta in Congenital Heart Disease
- Coronary Evaluation in Young Adults with Repaired Congenital Heart Disease
- Assessment of Conduits and Baffles
- Evaluation of a Failing Fontan
- Rare Fetal Case of Complex Vascular and Cardiac Interdependence in Omphalo-Ischiopagus Conjoined Twins

MONDAY, AUGUST 10

Channel Discovery – Future of Echo
11:00 AM – 12:00 PM **Stress Echo: Beyond the Borders**
- How to Interpret Diastolic Changes During Stress Induced Ischemia
- Strain During Stress Echo: Value and Limitations
- Evaluation of Right Ventricular Function During Stress
- 3D Stress: Does It Have a Role?
- Exercise Stress Echo in Congenital Heart Disease

As of June 12, 2020: Sessions Subject to Change
MONDAY, AUGUST 10

Channel Explorer – Progress in Science & Technology
11:00 AM – 12:00 PM  Simulated Heart Valve Team Cases Discussion - Tricuspid
• Tricuspid Valve Imaging for Tricuspid Valve Clipping
• 3D ICE for Tricuspid Valve Clipping
• Pre-Procedure Imaging for Tricuspid Valve Clipping
• Tips for Tricuspid Valve Clip Procedure
• Fusion Imaging for Tricuspid Valve Clip Procedure

Channel Guidepoint – Guidelines and Best Practices
11:00 AM – 12:00 PM  Cardiac Function Assessment and Outcomes
• Right Ventricular Adaptations to Pressure and Volume Overload
• How Do Echo Markers of Right Ventricular Function Relate to Outcomes?
• Left Ventricular Rotational Mechanics: Insights Into Ventricular Interactions
• Comprehensive Assessment of Single Ventricular Function
• Echo Predictors of Outcomes in Cardiomyopathies
• Non-Invasive Left Ventricular Pressure-Strain Loops, A New Approach to Assess Myocardial Work in Pediatrics

Channel Insight – Right Ventricle
11:00 AM – 12:00 PM  Multimodality Right Ventricle
• Novel Echo Techniques: 3D, Contrast, and Beyond
• Right Ventricle Strain: Is It Useful?
• When Echo Is Not Enough: MRI of the Right Ventricle
• Imaging in Pulmonary Hypertension
• The Right Ventricle in Right Sided Valve Diseases
• Mechanical Circulatory Support for the Right Ventricle

Channel Discovery – Future of Echo
12:30 – 1:30 PM  Value Summit: A Business Primer for the Echo Community
• Legislative and Regulatory Update
• PFS, HOPPS, and DRGs: The Xs and Os of Echo Reimbursement
• Population Health: What Is it and What Role will Echo Play?
• Healthcare Megatrends: A View From the AHA

Channel Explorer – Progress in Science & Technology
12:30 – 1:30 PM  Update on Infiltrative Cardiomyopathies
• Cardiac Amyloid: Subtypes and Modern Therapies
• Non-Amyloid Storage Diseases: Etiologies, Clinical Presentation, and Therapies
• Strain Echo in Amyloid and Non-Amyloid Infiltrative Disease
• CMR in Management of Infiltrative Cardiomyopathies
• Nuclear Techniques in Assessment of Infiltrative Cardiomyopathies
MONDAY, AUGUST 10

Channel Guidepoint – Guidelines and Best Practices
12:30 – 1:30 PM Circulation: A Cross Section
• Ultrasound in the Diagnosis of Acute Aortic Emergencies
• Spontaneous Coronary Artery Dissection: Now What Do We Do?
• Carotid Artery Dissection and Fibromuscular Dysplasia

Channel Insight – Right Ventricle
12:30 – 1:30 PM Right Heart Valve Disease: Tricuspid Regurgitation and Pulmonary Regurgitation
• Cases: Anatomy and Pathology (Mechanism) of Tricuspid Regurgitation
• Natural History of Tricuspid Regurgitation
• Carcinoid/Elstein
• Tricuspid Regurgitation Due to Pacemaker: Is the Pacemaker to Blame?
• Is the Tricuspid Valve Repairable? 2D and 3D Assessment and Imaging Planes

Channel Discovery – Future of Echo
3:30 – 4:30 PM Value Summit: Practical Approaches for Achieving Value in Echocardiography
• Our Lab’s Approach to Quality Improvement
• Our Lab’s Approach to POCUS and Limited Echos
• Our Lab’s Approach to Improving Lab Efficiency
• Our Lab’s Approach to Continuous Learning
• Our Lab’s Approach to Caring for our Caregivers

Channel Explorer – Progress in Science & Technology
3:30 – 4:30 PM Innovation in POCUS: A Case-based Approach
• POCUS Solves Problems in The Peri-Procedural Arena
• POCUS in the Emergency Department
• The Pregnant Woman and Right Ventricular Strain
• Innovative Use of Ultrasound in Regional Nerve Blocks
• Miniature Technology and Innovation in POCUS

Channel Guidepoint – Guidelines and Best Practices
3:30 – 4:30 PM Special Session: Echo in Women
• Stress Testing to Diagnose Chest Pain
• Acute Coronary Syndromes: Takotsubo, SCAD, MINOCA
• Pregnancy: Physiology, Cardiomyopathy, Valves
• Vascular and Valves: Aortopathy, TAVR
• HFpEF
MONDAY, AUGUST 10

Channel Insight – Right Ventricle
3:30 – 4:30 PM  The Right Stuff
- Peri-Procedural Tricuspid Valve Assessment: Dynamic Valve Geometry, Surgical/Procedural Correlation
- Peri-Procedural Tricuspid Regurgitation Assessment: Should We Change the Way We Think About Tricuspid Regurgitation?
- Peri-Procedural Right Ventricular Functional Assessment: Echocardiography Versus Hemodynamics

Channel Discovery – Future of Echo
5:00 – 6:00 PM  Emerging Concepts & Novel Techniques
- Malignant Mitral Valve Prolapse
- Myocardial Works
- Hypertrophic Obstructive Cardiomyopathy Stress
- Emerging Concepts in Tricuspid Evaluation
- Role of Echo in COVID-19

Channel Explorer – Progress in Science & Technology
5:00 – 6:00 PM  The Brian Haluska Sonographer Research Award Competition
- SIA-01: Optimal Quantification of Functional Mitral Regurgitation: Comparison of Volumetric and PISA Methods on Mid-Term Outcome
- SIA-02: Is There More Than Meets the Eye to TRI and Bicuspid Aortic Valves - Exploring Geometric and Hemodynamic Differences and Recognizing the Need to Optimize the Continuity Equation by Phenotype?
- SIA-03: Respiratory Dependence of Tricuspid Regurgitation
- SIA-04: Cardiac Function Improves in Growth Restricted Fetuses: A Longitudinal Study from in Utero to Three Years after Birth

Channel Guidepoint – Guidelines and Best Practices
5:00 – 6:00 PM  Dual Perspectives: Early Career
- Private Practice vs. Academia
- Master of Many vs. Master of One
- K or not to K? Start-up Funding Opportunities

Channel Insight – Right Ventricle
5:00 – 6:00 PM  This Just Ain’t Right - Right Sided Valve and Ventricular Interventions
- Interventional Options for the Tricuspid Valve
- Pre and Intra Operative Imaging for Tricuspid Valve Interventions
- Percutaneous Options for Right Ventricular Mechanical Support
- Unique Imaging Perspective for Monitoring Right Ventricular Support Devices