ASE’s Council on Circulation & Vascular Ultrasound has put together a program that will provide attendees with an excellent overview, as well as advanced topics on vascular ultrasound of interest to the practicing cardiologist/sonographer.

**EARLY CAREER (EC)**
This track has been designed specifically for fellows in training, and early career physicians and sonographers. The focus will be career development with sessions geared toward helping you effectively navigate the formative years of practice while maximizing the skills you have obtained during your training.

**IMAGING ESSENTIALS (E)**
ASE’s Council on Cardiovascular Sonography has created this track to instruct practitioners on techniques of assessment and quantitation. There are disease-based sessions that will help you improve your skills in imaging, measurements and quantification in a variety of disease states. In addition, there are practical sessions on lab management, diastology, myocardial perfusion, strain, and 3D echo that you can incorporate into your lab when you return home.

**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. Pericardial sessions have also been included. 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)**
ASE’s Council on Pediatric and Congenital Heart Disease has created a program packed with cutting-edge science from fetus to adult that brings together cardiologists, PhDs, engineers, and sonographers with the unifying goal of improving care for those with heart disease. The program will take you on a journey of using echo to predict, diagnose, and treat heart disease by reviewing current standards, learning from experts, and exposing you to what is on the horizon.

**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 on this highly valuable modality that is of critical importance as healthcare practitioners become skilled in the use of point of care ultrasound.

**SPECIAL SESSIONS (S)**
The 2020 Program Committee has designed the Special Sessions Track to introduce different learning formats to entertain and educate. Join us for the Episodes of Care, Echo and COVID, the Value Summit, and more.

**VALVES (V)**
The Valve Track has been planned with the goal of bringing together the expertise of sonographers, cardiologists, cardiac anesthesiologists, and surgeons to share knowledge in the diagnosis and management of patients with both simple and complex valvular heart disease. The sessions will highlight the role of the newer echocardiography modalities in managing patients with valvular diseases, present and future of percutaneous aortic, mitral, and tricuspid valve therapies, and an overview of structural imaging to complement the perioperative track.

**Chalk Talks**
Have clinical questions? Chalk Talks offer an opportunity to get answers to all your questions from experts in the field of cardiovascular ultrasound.

Sessions are identified with the following shapes to assist you in locating education aimed at your level of training.

- **BASIC**
- **INTERMEDIATE/ADVANCED**
- **ADVANCED**
- **BASIC/INTERMEDIATE**
- **INTERMEDIATE**
- **BASIC/INTERMEDIATE/ADVANCED**

#ASE2020
SATURDAY, AUGUST 8

CHANNEL DISCOVERY
10:30 AM - 11:00 AM
🌟 ASE President’s Address and State of ASE
Chair: M. Swaminathan
10:30 AM - 10:40 AM
State of ASE
M. Swaminathan
10:40 AM - 10:50 AM
Board of Directors Induction and Announcements
M. Swaminathan
10:50 AM - 11:00 AM
Incoming President’s Address
J. Hung

CHANNEL DISCOVERY
11:00 AM – 12:30 PM
新闻发布 Artificial Intelligence and What It Means to You
Chair: T. Abraham; S. Phillip
11:00 AM - 11:03 AM
Welcome and Introduction
T. Abraham
11:03 AM - 11:04 AM
Introduction of Laurie Yoler
T. Abraham
11:04 AM - 11:19 AM
Gardin Lecture: My Life on Artificial Intelligence - How Technology Will Change the Way We Live
L. Yoler
11:19 AM - 11:34 AM
Where the Puck is Going: Why Interest and Investment Are All in Artificial Intelligence?
C. Farmer
11:34 AM - 11:49 AM
Artificial Intelligence in Medicine: Promises, Potential, Pain and Pitfalls
M. Blum
11:49 AM - 11:54 AM
Panel Discussion
11:54 AM - 12:04 PM
How Artificial Intelligence Can Save Echocardiography
G. Tison
12:04 PM - 12:14 PM
Fundamental Artificial Intelligence for the Echocardiographer/ Sonographer
R. Arnaout
12:14 PM - 12:24 PM
A Sonographer Perspective on Artificial Intelligence
D. Adams
12:24 PM – 12:30 PM
Fireside Chat: Master Clinicians vs. Mega Computers - Who Wins?
M. Bogerman

CHANNEL INSIGHT
11:00 AM – 11:30 AM
 Worse Stronger Together
Chair: R. Sachdeva
11:00 AM - 11:06 AM
Welcome and Opening Remarks
R. Sachdeva
11:06 AM - 11:16 AM
Council Chair’s address
P. Barker
11:16 AM - 11:23 AM
COVID Pandemic: Recommendations for Pediatric Echocardiography
C. Altman
11:23 AM - 11:30 AM
COVID Pandemic: Sonographer Perspective
M. Wasserman

CHANNEL INSIGHT
11:30 AM – 12:30 PM
On the Horizon
R. Sachdeva
11:30 AM - 11:40 AM
The Latest and Greatest in Pediatric Cardiac Imaging: Year in Review
L. Mertens
11:40 AM - 11:50 AM
Future of Pediatric Echo Research
S. Morris
11:50 AM - 12:00 PM
Fetal Cardiac Imaging and Therapeutics: Where Should We Be in 2030?
J. Rychick
12:00 PM - 12:10 PM
Echo-nomics of pediatric cardiac care: what does the future hold for us?
G. Shirali
12:10 PM - 12:15 PM
Right Ventricular Remodeling after Cone Reconstruction for Ebstein Anomaly: Natural History, Interventricular Interactions, and Early Observations after Bone Marrow Derived Stem Cell Therapy
P. O’Leary
12:15 PM - 12:30 PM
Question & Answer
**SATURDAY, AUGUST 8**

### CHANNEL DISCOVERY
1:30 PM - 2:00 PM

- **Chalk Talk**
  - Doppler
  - N. Pandian

### CHANNEL DISCOVERY
2:00 PM - 2:30 PM

- **Chalk Talk**
  - Echo in Pulmonary Hypertension
  - N. Schiller

### CHANNEL EXPLORER
1:30 PM - 2:30 PM

- 50 Shades of Grey (Scale) in Peri-Procedural Imaging
  - Chair: S. Pai Cole
  - 1:30 PM - 1:45 PM
    - Complex Mitral Assessment (Under Anesthesia)
    - S. Shernan
  - 1:45 PM - 2:00 PM
    - What Do Procedural Gradients Actually Tell Us?
    - C. Mukherjee
  - 2:00 PM - 2:15 PM
    - Diastology in the Peri-Procedural Setting
    - T. Gelzinis
  - 2:15 PM - 2:30 PM
    - Question & Answer

### CHANNEL GUIDEPOINT
1:30 PM - 2:30 PM

- **Simulated Heart Valve Team Cases Discussion - Mitral**
  - Chairs: R. Hahn; N. Nanda
  - Panelists: S. Little; G. Mackensen; R. Quaife
  - 1:30 PM - 1:50 PM
    - Valve in MAC, Valve in Native Valve, Valve in Ring, or Percutaneous New Mitral Valve
    - E. Gill
  - 1:50 PM - 2:10 PM
    - Functional MR Clip
    - A. Qasim
  - 2:10 PM - 2:30 PM
    - Structural MR Clip
    - J. Dal-Bianco

### CHANNEL INSIGHT
1:30 PM - 2:30 PM

- **Renaissance in Cardiac Imaging to Assist Cardiac Interventions**
  - (ASE / EACVI Joint Session)
  - Chair: M. Friedberg
  - 1:30 PM - 1:40 PM
    - 3D TEE
    - X. Iriart
  - 1:40 PM - 1:50 PM
    - Fusion Imaging
    - P. Jone
  - 1:50 PM - 2:00 PM
    - 3D Printing
    - K. Farooqi
  - 2:00 PM - 2:10 PM
    - Medical Holography
    - E. Bruckheimer
  - 2:10 PM - 2:20 PM
    - Virtual Reality
    - R. Moore
  - 2:20 PM - 2:30 PM
    - Question & Answer

### CHANNEL DISCOVERY
4:00 PM - 5:30 PM

- **Episode of Care 1: Coronary Disease**
  - Chairs: C. Abouzeid; K. Tolstrup
  - POCUS
    - S. Raza
  - CT
    - M. Garcia
  - Nuclear
    - M. Pampaloni
  - Echo Sonographer
    - M. Strachan
  - Echo Cardiographer
    - V. Rigolin
  - Cath Lab
    - V. Mahadevan
  - CT Surgeon
    - K. Kim
  - Peri-OP
    - J. Ortoleva
  - ICU Care
    - S. Nikravan
  - MRI
    - TBD
  - Question & Answer
**CHANNEL EXPLORER**

4:00 PM - 5:00 PM

- Active Echocardiography: Advances in Ultrasound Therapeutics
  
  Chair: J. Lindner

  4:00 PM - 4:02 PM
  Introduction of Kalmanson Lecture
  J. Lindner

  4:02 PM - 4:12 PM
  Kalmanson Lecture: Therapeutic Methods for Cardiovascular Tissue Ablation
  B. Fowlkes

  4:12 PM - 4:22 PM
  Gene/Drug Delivery
  M. Borden

  4:22 PM - 4:32 PM
  Augmented Thrombolysis
  W. Mathias

  4:32 PM - 4:42 PM
  Modulation of Tissue Perfusion
  J. Lindner

  4:42 PM - 4:52 PM
  Ultrasound Alteration of Basic Cell Function
  F. Villanueva

  4:52 PM - 5:00 PM
  Question & Answer

**CHANNEL GUIDEPOINT**

4:00 PM - 5:00 PM

- Educator Summit: Contrast and Competency
  
  Chairs: M. Bremer; C. Mitchell

  4:00 PM - 4:10 PM
  Introduction and Overview of Session, Legal, and Policy Considerations
  M. Bremer

  4:10 PM - 4:20 PM
  Methods of Testing Competency
  R. Palma

  4:20 PM - 4:45 PM
  Practical Competency for Educators
  J. Betz

  4:45 PM - 4:55 PM
  Sonographer Perspectives
  C. Mitchell

  4:55 PM - 5:00 PM
  Question & Answer

**CHANNEL INSIGHT**

4:00 PM - 5:00 PM

- Quality and Value Summit
  
  Chair: C. Fleishman

  4:00 PM - 4:05 PM
  Echo Complexity Score: How Can It Impact Quality and Efficiency of a Lab?
  S. Balasubramanian

  4:05 PM - 4:10 PM
  Practice Variation in Pediatric Echo Labs
  J. Camarda

  4:10 PM - 4:20 PM
  Multimodality Imaging in A Value-Based Healthcare System
  K. Stern

  4:20 PM - 4:30 PM
  Debate: Quality Metrics-Adds Value to Patient Care and We Need More!
  L. Lopez

  4:30 PM - 4:40 PM
  Debate: Quality Metrics-We Have Enough Already, Not Sure What to Do with Them!
  M. Lewin

  4:40 PM - 4:45 PM
  The American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity Survey 4: Pediatric Echocardiography Labs Maintain Productivity While Increasing Study Volume and Incorporating New Technologies
  B. Printz

  4:45 PM - 5:00 PM
  Question & Answer
SUNDAY, AUGUST 9

CHANNEL DISCOVERY
11:00 AM – 11:25 AM
🌟 Edler Lecture
11:00 AM - 11:23 AM
Edler Lecture: The Role of Imaging Today for Developing Drugs of Tomorrow
J. Lindner

11:23 AM - 11:25 AM
Thank you
T. Abraham

CHANNEL DISCOVERY
11:25 AM – 12:30 PM
💰 Echo and COVID
Chairs: T. Abraham; N. Parikh
11:25 AM - 11:35 AM
Epidemiology of COVID
G. Rutherford

11:35 AM - 11:45 AM
Echo Findings in COVID
C. Taub

11:45 AM - 11:55 AM
Bedside Focused Cardiac Ultrasound in COVID-19 Infection from the Wuhan Epicenter
L. Zhang

11:55 AM - 12:05 PM
Protection of Patients
J. Kirkpatrick

12:05 PM - 12:15 PM
Sonographer Considerations
K. Collins

12:15 PM - 12:25 PM
Perioperative Considerations
M. Swaminathan

12:25 PM - 12:35 PM
Echocardiography in the Time of COVID-19
M. Picard

12:35 PM - 12:45 PM
Reopening the Echo Lab
J. Hung

CHANNEL INSIGHT
11:00 AM - 12:30 PM
醵 Fetal Symposium: Current and Upcoming Strategies in Management of Fetal Cardiac Disease
Chair: J. Pruetz
11:00 AM - 11:15 AM
New Frontiers in Fetal Cardiac Imaging
K. Pushparajan; J. Simpson

11:15 AM - 11:25 AM
Home Monitoring for Fetal Heart Rhythm
B. Cuneo

11:25 AM - 11:40 AM
International Fetal Cardiac Interventions Registry: Lessons learnt
A. Moon-Grady

11:40 AM - 11:55 AM
Assessing the Heart in a Fetus with Extracardiac Anomalies
R. Michelfelder

11:55 AM - 12:10 PM
Perinatal Level of Care Guidelines-Impact on Clinical Outcomes
M. Donofrio

12:10 PM - 12:20 PM
Maternal Hyperoxygenation Testing in Fetuses with Hypoplastic Left Heart Syndrome: Predicting Postnatal Physiology
C. Mardy

12:20 PM - 12:30 PM
Question & Answer

CHANNEL DISCOVERY
1:00 PM - 2:30 PM
醵 Episode of Care 2: Mitral Valve Disease
Chairs: S. Little; J. Wong
POCUS
S. Raza
V. Ferrari
Cath Lab
CT
A. Patel
V. Mahadevan
CT Surgeon
Echo Sonographer
C. Kramer
D. Drake
Periop
Echo cardiographer
A. Qasim
D. Shook
MRI
ICU Care
A. Kumaresam
Question & Answer
**CHANNEL EXPLORER**

1:30 PM - 3:00 PM

🌟 Arthur E. Weyman Young Investigator’s Award Competition and 20th Annual Feigenbaum Lecture

Chair: M. Main

Judges: T. Edvardsen; J. Hung; H. Leong-Poi; S. Mulvagh; A. Weyman; K. Yakamoto

1:30 PM - 1:35 PM

Welcome and Introduction

M. Main

1:35 PM - 1:47 PM

YIA-1: Ultrasound Enhanced S100A4-shRNA Delivery Using Acoustically Activated Cationic Lipid Nanodroplets to Reach and Treat Myocytes within the Developing Scar Zone

L. Qian

1:47 PM - 1:59 PM

YIA-2: Projected Transmitral Gradient: A Novel Tool for Assessment of Mitral Stenosis

N. Kato

1:59 PM - 2:11 PM

YIA-3: Exploring the Phenotypic Spectrum of Left Ventricular Hypertrophy in Hypertension and Hypertrophic Cardiomyopathy Using a Machine-Learning Approach: A Pilot Study

F. Loncaric

2:11 PM - 2:23 PM

YIA-4: Deep Learning Models of Diastolic Dysfunction: Channel Insights from the TOPCAT Echocardiography Sub-Study

A. Pandey

2:23 PM - 2:25 PM

Concluding Remarks

M. Main

2:25 PM - 2:28 PM

Introduction to the Feigenbaum Lecturer

M. Swaminathan

2:28 PM - 2:48 PM

Feigenbaum Lecture: Beyond Artificial: Echocardiography from Elegant Images to Analytic Intelligence

S. Kutty

2:48 PM - 2:53 PM

Recognition of Feigenbaum Lecture, Presentation of Plaque, Concluding Remarks

H. Feigenbaum

2:53 PM - 3:00 PM

Presentation of YIA Plaques and Winner Announcement

A. Weyman

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**CHANNEL GUIDEPOINT**

1:30 PM - 2:30 PM

✚ Cardio-Oncology in the Real World

(Joint ASE/EACVI Session)

Chair: M. Scherrer-Crosbie

1:30 PM - 1:35 PM

Case 1

S. Cauduro

1:35 PM - 1:50 PM

Discussion: Traditional Cardio-Toxicity

T. Edvardsen

1:50 PM - 1:55 PM

Case 2

A. Yu

1:55 PM - 2:10 PM

Discussion: Cardiac Effects of Novel Cancer Therapeutics

J. Plana

2:10 PM - 2:15 PM

Case 3

P. Thavendiranathan

2:15 PM - 2:30 PM

Discussion: “But Wait, There’s More:” Cardio-Oncology Beyond the Myocardium

B. Cosyns

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**CHANNEL INSIGHT**

1:30 PM - 2:30 PM

✚ Challenging Cases: Fetus to Adults with Congenital Heart Disease

Chair: C. Taylor

Panelists: A. Dorfman; B. Eidem

1:30 PM - 1:40 PM

Fetus with Ebstein Anomaly: What Predicts Perinatal Outcomes?

L. Freud

1:40 PM - 1:50 PM

A Neonate with CC-TGA: When and How to Intervene?

C. Taylor

1:50 PM - 2:00 PM

DORV with Straddling AV Valve: Is BiV Repair Feasible?

M. Quartermain

2:00 PM - 2:10 PM

Infant with Complete AV Canal Defect: How Can 3D Echo Help?

A. Parthiban

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#ASE2020
2:10 PM - 2:20 PM
Young Adult with a New Diagnosis of Coarctation: What Else Do I Need to Look For?
S. Pickard

2:20 PM - 2:30 PM
Young Adult with Repaired TOF: How to Assess Melody Valve Dysfunction?
J. Lu

CHANNEL DISCOVERY
4:00 PM - 4:30 PM
Chalk Talk
Contemporary Evaluation of Valve Disease
W. Zoghbi

CHANNEL DISCOVERY
4:30 PM - 5:00 PM
Chalk Talk
Fundamentals and Applications of Strain
T. Kolias

CHANNEL EXPLORER
4:00 PM - 5:00 PM
Echo Technology at the Cutting Edge of Knowledge
Chairs: S. Morhy; M. Swaminathan

4:00 PM - 4:02 PM
Introduction to Kerber Lecture
M. Swaminathan

4:02 PM - 4:22 PM
Kerber Lecture: Ethical Codes and Echocardiographers
J. Gardin

4:22 PM - 4:32 PM
Echo as an Endpoint in Clinical Trials: Successes and Pitfalls
N. Weissman

4:32 PM - 4:42 PM
Harnessing Big Echo Data: Novel Methods
P. Sengupta

4:42 PM - 4:52 PM
Echo as a Tool for Hemodynamic Assessment
S. Morhy

4:52 PM - 5:00 PM
Understanding Congenital Heart Disease Through New Imaging Technology
T. Slesnick

CHANNEL GUARDIAN
4:00 PM - 5:00 PM
Echo in Acute Myocardial Infarction: From Diagnosis to Therapy
Chair: J. Tsutsui

4:00 PM - 4:10 PM
Original Research: Myocardial Contrast Echocardiography in Acute Myocardial Infarction or Acute Myocardial Infarction Sonothrombolysis
K. Wei

4:10 PM - 4:20 PM
Myocardial Contrast Echocardiography and Wall Motion Assessment for Chest Pain in the Emergency Department
R. Senior

4:20 PM - 4:30 PM
Myocardial Contrast Echocardiography for Assessment of Viability and Residual Ischemia Post Fibrinolytic Therapy
W. Mathias

4:30 PM - 4:40 PM
Sonothrombolysis in Acute Myocardial Infarction
R. Senior

4:40 PM - 4:50 PM
Coming Down the Pike: Innovations in Myocardial Infarction Diagnosis and Therapy
T. Porter

4:50 PM - 5:00 PM
Question & Answer

CHANNEL INSIGHT
4:00 PM - 5:00 PM
Imaging Solutions to Clinical Conundrums in Congenital Heart Disease
Chairs: N. Ayres; B. Landeck

4:00 PM - 4:10 PM
Bi-Ventricular Conversion
G. Marx

4:10 PM - 4:20 PM
Panel Discussion

4:20 PM - 4:30 PM
Anomalous Origin of Coronaries
P. Frommelt

4:30 PM - 4:40 PM
Panel Discussion

4:40 PM - 4:50 PM
D-TGA
M. Cohen

4:50 PM - 5:00 PM
Panel Discussion

#ASE2020
SUNDAY, AUGUST 9

CHANNEL DISCOVERY
5:00 PM - 6:30 PM

_episode of Care 3: Cardiomyopathy - MCS - Transplant_

Chairs: J. Kirkpatrick; T. Nguyen

POCUS
N. Panebianco
CT
M. Garcia
Nuclear
R. Quaife
Echo Sonographer
TBD
Echo Cardiographer
F. Silvestry

Question & Answer

CHANNEL EXPLORER
5:30 PM - 6:30 PM

__Inflammatory Cardiovascular Diseases__

(ASE/JSE Joint Session)

Chairs: I. Kronzon; K. Yakamoto

5:30 PM - 5:45 PM
Cardiac Sarcoidosis: Role of Echocardiography in Multimodality Imaging
K. Hirata

5:45 PM - 6:00 PM
Cardiac Disorders in Connective Tissue Diseases
C. Izumi

CHANNEL GUIDEPOINT
5:30 PM - 6:30 PM

__HFpEF: Everything You Need to Know... And More__

Chair: A. Radhakrishnan

5:30 PM - 5:45 PM
Ventricular and Vascular Physiology, and Hemodynamics
G. Aurigemma

5:45 PM - 6:00 PM
Myocardial Relaxation and Stiffness in the Era of Mechanics
O. Smiseth

6:00 PM - 6:15 PM
How Will We Measure Diastolic Function 10 Years From Now?
S. Nagueh

6:15 PM - 6:20 PM
Case Discussion: What to Do When the Numbers Don’t Fit the Guidelines?
C. Harrington

6:20 PM - 6:25 PM
Case Discussion: Clues to Etiology of HFpEF
M. Bansal

6:25 PM - 6:30 PM
Case Discussion: Exercise Testing
B. Lefebvre

CHANNEL INSIGHT
5:30 PM - 6:30 PM

__Multimodality Imaging from Fetus to Young Adults__

Chair: D. Parra

5:30 PM - 5:40 PM
Aorta in Congenital Heart Disease
J. Chew

5:40 PM - 5:50 PM
Coronary Evaluation in Young Adults with Repaired Congenital Heart Disease
A. Powell

5:50 PM - 6:00 PM
Assessment of Conduits and Baffles
T. Slesnick

6:00 PM - 6:10 PM
Evaluation of a Failing Fontan
M. DiMaria

6:10 PM - 6:15 PM
Rare Fetal Case of Complex Vascular and Cardiac Interdependence in Omphaloischopagus Conjoined Twins
M. Gaitonde

6:15 PM - 6:30 PM
Question & Answer

#ASE2020
**CHANNEL DISCOVERY**
11:00 AM - 12:00 PM

**Stress Echo: Beyond the Borders**
Chair: V. Rigolin

11:00 AM - 11:10 AM
How to Interpret Diastolic Changes During Stress Induced Ischemia
M. Chetrit

11:10 AM - 11:20 AM
Strain During Stress Echo: Value and limitations
E. Donal

11:20 AM - 11:30 AM
Evaluation of Right Ventricular Function During Stress
J. Aragam

11:30 AM - 11:40 AM
3D Stress: Does It Have A Role?
M. Ahmad

11:40 AM - 11:50 AM
Exercise Stress Echo in Congenital Heart Disease
I. El-Assad

11:50 AM - 12:00 PM
Question & Answer

**CHANNEL EXPLORER**
11:00 AM - 12:00 PM

**Simulated Heart Valve Team Cases**
**Discussion: Tricuspid**
Chairs: R. Hahn; M. Reisman

11:00 AM - 11:10 AM
Tricuspid Valve Imaging for Tricuspid Valve Clipping
G. Mackensen

11:10 AM - 11:20 AM
3D ICE for Tricuspid Valve Clipping
E. Gill

11:20 AM - 11:30 AM
Pre Procedure Imaging for Tricuspid Valve Clipping
E. Salcedo

11:30 AM - 11:40 AM
Tips for Tricuspid Valve Clip Procedure
R. Hahn

11:40 AM - 11:50 AM
Fusion Imaging for Tricuspid Valve Clip Procedure
R. Qualife

11:50 AM - 12:00 PM
Question & Answer

**CHANNEL GUIDEPOINT**
11:00 AM - 12:00 PM

**Cardiac Function Assessment and Outcomes**
Chair: P. Frommelt

11:00 AM - 11:10 AM
Right Ventricular Adaptations to Pressure and Volume Overload
M. Friedberg

11:10 AM - 11:20 AM
How Do Echo Markers of Right Ventricular Function Relate to Outcomes
S. Buddhe

11:20 AM - 11:30 AM
Left Ventricular Rotational Mechanics: Channel Insights Into Ventricular Interactions
S. Srivastava

11:30 AM - 11:40 AM
Comprehensive Assessment of Single Ventricular Function
N. Khoo

11:40 AM - 11:50 AM
Echo Predictors of Outcomes in Cardiomyopathies
P. Barker

11:50 AM - 11:55 AM
Non-Invasive Left Ventricular Pressure-Strain Loops, A New Approach to Assess Myocardial Work in Pediatrics
D. Aly

11:55 AM - 12:00 PM
Question & Answer

**CHANNEL INSIGHT**
11:00 AM - 12:00 PM

**Multimodality Right Ventricle**
Chair: S. Spina

11:00 AM - 11:10 AM
Novel Echo Techniques: 3D, Contrast, and Beyond
Y. Han

11:10 AM - 11:20 AM
RV Strain: Is It Useful?
L. Rudski

11:20 AM - 11:30 AM
When Echo Is Not Enough: MRI of the Right Ventricle
A. Patel

11:30 AM - 11:40 AM
Imaging in Pulmonary Hypertension
N. Schiller
SUNDAY, AUGUST 9

11:40 AM - 11:50 AM
The Right Ventricle in Right Sided Valve Diseases
V. Pham

11:50 AM - 12:00 PM
MCS for the RV
J. Kirkpatrick

CHANNEL DISCOVERY
12:30 PM - 1:30 PM
Value Summit: A Business Primer for the Echo Community
Chairs: M. Main; M. Picard

12:30 PM - 12:50 PM
Legislative and Regulatory Update
L. Aronson

12:30 PM - 12:50 PM
Legislative and Regulatory Update
D. Rosen

12:50 PM - 1:00 PM
PFS, HOPPS, and DRGs: The Xs and Os of Echo Reimbursement
G. Rose

1:00 PM - 1:10 PM
Population Health: What Is it and What Role will Echo Play?
S. Mayer

1:10 PM - 1:30 PM
Question & Answer

CHANNEL EXPLORER
12:30 PM - 1:30 PM
Update on Infiltrative Cardiomyopathies
Chairs: T. Edvardsen; A. Pardo

12:30 PM - 12:40 PM
Cardiac Amyloid: Subtypes and Modern Therapies
M. Hanna

12:40 PM - 12:50 PM
Non Amyloid Storage Diseases: Etiologies, Clinical Presentation & Therapies
L. Blauwet

12:50 PM - 1:00 PM
Strain Echo in Amyloid and Non Amyloid Infiltrative Disease
D. Phelan

1:00 PM - 1:10 PM
CMR in Management of Infiltrative Cardiomyopathies
A. Hays

1:10 PM - 1:20 PM
Nuclear Techniques in Assessment of Infiltrative Cardiomyopathies
M. Pampaloni

1:20 PM - 1:30 PM
Discussion

CHANNEL GUIDEPOINT
12:30 PM - 1:30 PM
Circulation - A Cross Section
Chairs: F. Shamoun; B. Wells

12:30 PM - 12:35 PM
Introduction
B. Wells

12:35 PM - 12:50 PM
Ultrasound in the Diagnosis of Acute Aortic Emergencies
C. Fanola

12:50 PM - 1:05 PM
Spontaneous Coronary Artery Dissection: Now What Do We Do?
E. Kim

1:05 PM - 1:20 PM
The Vascular Manifestations of COVID-19
M. Vorsanger

1:20 PM - 1:30 PM
Question & Answer

CHANNEL INSIGHT
12:30 PM - 1:30 PM
Right Heart Valve Disease: Tricuspid Regurgitation and PR
Chairs: P. Pellikka; J. Plana

12:30 PM - 12:40 PM
Cases: Anatomy and Pathology (Mechanism) of Tricuspid Regurgitation
V. Nkomo

12:40 PM - 12:50 PM
Natural History of Tricuspid Regurgitation
K. Tolstrup

12:50 PM - 1:00 PM
Carcinoid/Ebstein
S. Kort

1:00 PM - 1:10 PM
Tricuspid Regurgitation Due to Pacemaker: Is the Pacemaker to Blame?
A. Khanna
<table>
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<th>Time</th>
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| 1:10 PM - 1:20 PM | Is the Tricuspid Valve Repairable? 2D and 3D Assessment and Imaging Planes  
L. Badano |
| 1:20 PM - 1:30 PM | Question & Answer                                                        |
| 3:30 PM - 4:30 PM | **CHANNEL DISCOVERY**  
**Value Summit: Practical Approaches for Achieving Value in Echocardiography**  
Chairs: B. Byrd; P. Rahko |
| 3:30 PM - 3:40 PM | Our Lab’s Approach to Quality Improvement  
M. Bremer |
| 3:40 PM - 3:50 PM | Our Lab’s Approach to POCUS and Limited Echos  
R. Grimm |
| 3:50 PM - 4:00 PM | Our Lab’s Approach to Improving Lab Efficiency  
B. Khandheria |
| 4:00 PM - 4:10 PM | Our Lab’s Approach to Continuous Learning  
J. Marshall |
| 4:10 PM - 4:20 PM | Our Lab’s Approach to Caring for our Caregivers  
A. Hays |
| 4:20 PM - 4:30 PM | Question & Answer                                                        |
| 3:30 PM - 4:30 PM | **CHANNEL EXPLORER**  
**Innovation in POCUS: A Case-based Approach**  
Chair: S. Raza |
| 3:30 PM - 3:40 PM | POCUS Solves Problems in the Peri-Procedural Arena  
K. Subramaniam |
| 3:40 PM - 3:50 PM | POCUS in the Emergency Department  
N. Panebianco |
| 3:50 PM - 4:00 PM | The Pregnant Woman and Right Ventricular Strain  
S. Shahul |
| 4:00 PM - 4:10 PM | Innovative Use of Ultrasound in Regional Nerve Blocks  
A. Tsai |
| 4:10 PM - 4:20 PM | Miniature technology and innovation in POCUS  
S. Raza |
| 4:20 PM - 4:30 PM | Question & Answer                                                        |
| 3:30 PM - 4:30 PM | **CHANNEL GUIDEPOINT**  
**Special Session: Echo in Women**  
Chair: M. Wood |
| 3:30 PM - 3:40 PM | Stress Testing to Diagnose Chest Pain  
H. Nguyen |
| 3:40 PM - 3:50 PM | Acute Coronary Syndromes: Takotsubo, SCAD, MINOCA  
M. Tweet |
| 3:50 PM - 4:00 PM | Pregnancy: Physiology, Cardiomyopathy, Valves  
N. Scott |
| 4:00 PM - 4:10 PM | Vascular and Valves: Aortopathy, TAVR  
I. Harris |
| 4:10 PM - 4:20 PM | HFpEF  
S. Sengupta |
| 4:20 PM - 4:30 PM | Question & Answer                                                        |
| 3:30 PM - 4:30 PM | **CHANNEL INSIGHT**  
**The Right Stuff**  
Chair: A. Nicoara |
| 3:30 PM - 3:45 PM | Peri-Procedural Tricuspid Valve Assessment. Dynamic Valve Geometry, Surgical/Procedural Correlation  
A. Maslow |
| 3:45 PM - 4:00 PM | Peri-Procedural Tricuspid Regurgitation Assessment: Should We Change the Way We Think About Tricuspid Regurgitation?  
R. Hahn |

#ASE2020
4:00 PM - 4:15 PM
Peri-Procedural Right Ventricular Functional Assessment: Echocardiography Versus Hemodynamics
N. Silverton

4:15 PM - 4:30 PM
Question & Answer

CHANNEL DISCOVERY
5:00 PM - 6:00 PM
Emerging Concepts & Novel Techniques
Chair: E. Shea

5:00 PM - 5:10 PM
Malignant MVP
S. Roemer

5:10 PM - 5:20 PM
Myocardial Works
A. Davis

5:20 PM - 5:30 PM
HOCM Stress
I. Kwan

5:30 PM - 5:40 PM
Emerging Concepts in Tricuspid Evaluation
M. Park

5:40 PM - 5:50 PM
Role of Echo in Covid19
M. Umland

5:50 PM - 6:00 PM
Question & Answer

CHANNEL EXPLORER
5:00 PM - 6:00 PM
The Brian Haluska Sonographer Research Award Competition
Chair: M. Main
Judges: K. Collins; K. Kasir; S. Mulvagh

5:00 PM - 5:03 PM
Welcome and Introduction of Judges
M. Main

5:03 PM - 5:13 PM
SIA-01: Optimal Quantification of Functional Mitral Regurgitation: Comparison of Volumetric and PISA Methods on Mid-Term Outcome
S. Igata

5:13 PM - 5:23 PM
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?
A. Frampton

5:23 PM - 5:33 PM
SIA-03: Respiratory Dependence of Tricuspid Regurgitation
M. Yamat

5:33 PM - 5:43 PM
SIA-04: Cardiac Function Improves in Growth Restricted Fetuses: A Longitudinal Study from in Utero to Three Years After Birth
C. Cassidy

5:43 PM - 5:45 PM
Introduction of Guest Speaker
M. Main

5:45 PM - 5:55 PM
Guest Speaker
H. Warraich

5:55 PM - 6:00 PM
Recognition of Competition Finalists, Announcement of Winner
M. Main

CHANNEL GUIDEPOINT
5:00 PM - 6:00 PM
Dual Perspectives: Early Career
Chair: L. Freud; R. Thamman

5:00 PM - 5:20 PM
Private Practice vs. Academia
R. Thamman

5:00 PM - 5:20 PM
Private Practice vs. Academia
M. Scherrer-Crosbie

5:20 PM - 5:40 PM
Master of Many vs. Master of One
P. Patil

5:20 PM - 5:40 PM
Master of Many vs. Master of One
S. Wiegers

5:40 PM - 6:00 PM
K or not to K? Start-up Funding Opportunities
S. Peyvandi

5:40 PM - 6:00 PM
K or not to K? Start-up Funding Opportunities
L. Freud
This Just Ain’t Right: Right Sided Valve and Ventricular Interventions

Chair: R. Stainback

5:00 PM - 5:13 PM
Interventional Options for the Tricuspid Valve
V. Mahadevan

5:13 PM - 5:26 PM
Pre and Intra Operative Imaging for Tricuspid Valve Interventions
S. Little

5:26 PM - 5:39 PM
Percutaneous Options for Right Ventricular Mechanical Support
N. Kapur

5:39 PM - 5:42 PM
Unique Imaging Perspective for Monitoring Right Ventricular Support Devices
R. Stainback