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
▲ Artificial Intelligence and What It Means to You
Chairs: 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 PM
◆ 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
11:00 AM – 11:30 PM
◆ On the Horizon
11:30 AM - 12:30 PM
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

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
G. Strachan
Echo Cardiographer
V. Rigolin
Cath Lab
V. Mahadevan
CT Surgeon
K. Kim
Peri-OP
J. Ortoleva
ICU Care
TBD
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. Feller 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 - 12:30 PM  
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  
◆ 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
▲ Episode of Care 2: Mitral Valve Disease
Chairs: S. Little; J. Wong
POCUS
S. Raza
CT
A. Patel

Echo Sonographer
C. Kramer

Echo cardiographer
A. Qasim

MRI
V. Ferrari

Cath Lab
V. Mahadevan

CT Surgeon
D. Drake

Periop
D. Shook

ICU Care
A. Kumaresam

Question & Answer

1:35 PM - 1:47 PM
YIA-1: Ultrasound Enhanced S10A4-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

CHANNEL EXPLORE
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. Yakamota

1:30 PM - 1:35 PM
Welcome and Introduction
M. Main

1:35 PM - 1:47 PM
YIA-1: Ultrasound Enhanced S10A4-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

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

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

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

▲ Echo in Acute MI: From Diagnosis to Therapy
Chair: J. Tsutsui

4:00 PM - 4:10 PM
Original Research: MCE in Acute Myocardial Infarction or Acute Myocardial Infarction Sonothrombolysis

4:10 PM - 4:20 PM
MCE and Wall Motion Assessment for Chest Pain in the Emergency Department
K. Wei

4:20 PM - 4:30 PM
MCE for Assessment of Viability and Residual Ischemia Post Fibrinolytic Therapy
R. Senior

4:30 PM - 4:40 PM
Sonothrombolysis in Acute Myocardial Infarction
W. Mathias

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

**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
E. Shea

Echo Cardiographer
F. Silvestry

Cath Lab
V. Mahadevan

CT Surgeon
J. Rove

Periop
A. Nicoara

ICU Care
S. Pai Cole

MRI
R. Blankstein

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 - 5:40 PM
Cardiac Sarcoidosis: Role of Echocardiography in Multimodality Imaging
K. Hirata

5:40 PM - 5:50 PM
Cardiac Disorders in Connective Tissue Diseases
C. Izumi

5:50 PM - 6:00 PM
HIV
J. Kizer
6:00 PM - 6:10 PM
Arterial Inflammatory Diseases: Takasayu, Kawasaki, CSS, WG, PAN, and Behcets
R. LeLeiko

6:10 PM - 6:20 PM
Sepsis: The Role of Inflammation
M. Lanspa

6:20 PM - 6:30 PM
Non-Traditional Causes of Cardiac Inflammation
D. Sanborn

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. Para

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 Omphaloischiopagus Conjoined Twins
M. Gaitonde

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

Monday, August 10
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 - 12:00 PM
Exercise Stress Echo in Congenital Heart Disease
I. El-Assaad

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 TV 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. Quaife

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

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 - 1:30 PM
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
TBD

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. Nikoma

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

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

CHANNEL DISCOVERY
3:30 PM - 4:30 PM
◆ 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:40 PM - 3:50 PM</td>
<td>Our Lab’s Approach to POCUS and Limited Echos</td>
<td>R. Grimm</td>
</tr>
<tr>
<td>3:50 PM - 4:00 PM</td>
<td>Our Lab’s Approach to Improving Lab Efficiency</td>
<td>B. Khandheria</td>
</tr>
<tr>
<td>4:00 PM - 4:10 PM</td>
<td>Our Lab’s Approach to Continuous Learning</td>
<td>J. Marshall</td>
</tr>
<tr>
<td>4:10 PM - 4:20 PM</td>
<td>Our Lab’s Approach to Caring for our Caregivers</td>
<td>A. Hays</td>
</tr>
<tr>
<td>4:20 PM - 4:30 PM</td>
<td>Question &amp; Answer</td>
<td></td>
</tr>
<tr>
<td>3:30 PM - 4:30 PM</td>
<td>Innovation in POCUS: A Case-based Approach</td>
<td>Chair: S. Raza</td>
</tr>
<tr>
<td>3:30 PM - 3:40 PM</td>
<td>POCUS Solves Problems in the Peri-Procedural Arena</td>
<td>K. Subramaniam</td>
</tr>
<tr>
<td>3:40 PM - 3:50 PM</td>
<td>POCUS in the Emergency Department</td>
<td>N. Panebianco</td>
</tr>
<tr>
<td>3:50 PM - 4:00 PM</td>
<td>The Pregnant Woman and Right Ventricular Strain</td>
<td>S. Shahul</td>
</tr>
<tr>
<td>4:00 PM - 4:10 PM</td>
<td>Innovative Use of Ultrasound in Regional Nerve Blocks</td>
<td>A. Tsai</td>
</tr>
<tr>
<td>4:10 PM - 4:20 PM</td>
<td>Miniature technology and innovation in POCUS</td>
<td>S. Raza</td>
</tr>
<tr>
<td>4:20 PM - 4:30 PM</td>
<td>Question &amp; Answer</td>
<td></td>
</tr>
<tr>
<td>3:30 PM - 4:30 PM</td>
<td>Special Session: Echo in Women</td>
<td>Chair: M. Wood</td>
</tr>
<tr>
<td>3:30 PM - 3:40 PM</td>
<td>Stress Testing to Diagnose Chest Pain</td>
<td>H. Nguyen</td>
</tr>
<tr>
<td>3:40 PM - 3:50 PM</td>
<td>Acute Coronary Syndromes: Takotsubo, SCAD, MINOCA</td>
<td>M. Tweet</td>
</tr>
<tr>
<td>3:50 PM - 4:00 PM</td>
<td>Pregnancy: Physiology, Cardiomyopathy, Valves</td>
<td>N. Scott</td>
</tr>
<tr>
<td>4:00 PM - 4:10 PM</td>
<td>Vascular and Valves: Aortopathy, TAVR</td>
<td>I. Harris</td>
</tr>
<tr>
<td>4:10 PM - 4:20 PM</td>
<td>HFpEF</td>
<td>S. Sengupta</td>
</tr>
<tr>
<td>4:20 PM - 4:30 PM</td>
<td>Question &amp; Answer</td>
<td></td>
</tr>
<tr>
<td>3:30 PM - 4:30 PM</td>
<td>The Right Stuff</td>
<td>Chair: A. Nicoara</td>
</tr>
<tr>
<td>3:30 PM - 3:45 PM</td>
<td>Peri-Procedural TV Assessment, Dynamic Valve Geometry, Surgical/Procedural Correlation</td>
<td>A. Maslow</td>
</tr>
<tr>
<td>3:45 PM - 4:00 PM</td>
<td>Peri-Procedural TR Assessment: Should We Change the Way We Think About TR?</td>
<td>R. Hahn</td>
</tr>
<tr>
<td>4:00 PM - 4:15 PM</td>
<td>Peri-Procedural RV Functional Assessment: Echocardiography Versus Hemodynamics</td>
<td>TBD</td>
</tr>
<tr>
<td>4:15 PM - 4:30 PM</td>
<td>Question &amp; Answer</td>
<td></td>
</tr>
</tbody>
</table>
**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
CHANNEL INSIGHT
5:00 PM - 6:00 PM
▲ 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