FINAL PROGRAM
January 21–25, 2019
The Westin Hapuna Beach Resort
Kohala Coast, Big Island, HI

Course Director
Neil J. Weissman, MD, FASE
Past President, ASE
MedStar Health Research Institute
Washington, DC

Co-Director
James D. Thomas, MD, FASE
Past President, ASE
Northwestern Medicine
Chicago, IL
Welcome Message

On behalf of the American Society of Echocardiography, welcome to the Big Island! Whether you are a regular attendee or a first-time visitor, we are certain you will enjoy the experience and come away a better echocardiographer and clinician. Throughout this five-day meeting, you will learn state-of-the-art echocardiography and how it is applied to clinical decision-making. The international faculty for this meeting are world-class in terms of expertise and teaching prowess. We will start the day early and pack every morning with lectures, cases, and interactive sessions. Mid-afternoons will be free to enjoy the island with friends and family. On Monday, Wednesday, and Thursday, we will reconvene in the late afternoon for workshops, cases, and a poster session. But rest assured, we will always finish in time to enjoy the spectacular Hawaiian sunset!

Of the many special events you won’t want to miss are the Welcome Reception on Monday evening featuring unique local cuisine, libations, and music, and Wednesday’s Sundown Reception and Poster Session featuring original echo research. These events provide an opportunity to interact with faculty, colleagues, and exhibitors in a casual setting.

Echo Hawaii is much more than education, after all you are in Hawaii! The Big Island has something for everyone. Enjoy the waves at the world-class Hapuna Beach, or try snorkeling or scuba diving along the unique volcanic reefs. You may even want to head down the coast for surfing lessons irrespective of your level of experience. Explore the rain forest just 20 miles north of the Westin Hapuna Beach Resort.

For the more adventurous, take a walk on the wild side in Volcano National Park where you can hike right up to rivers of lava (with appropriate shoes of course). If you are astronomically inclined, be sure to tour the top of The Big Island’s 14,000-foot Mauna Kea volcano for an evening of unmatched stargazing. Not feeling so adventurous? You can always just lay on the beach or by the pool and be glad you’re not shoveling snow! The resort features 32 ocean front acres! On the Kohala Coast, there is sunshine almost all year round with an average temperature of 78 degrees in January. In addition, Echo Hawaii takes place during peak humpback whale watching season, something you won’t want to miss. You will also find dozens of excellent restaurants close-by for every budget and taste.

Enjoy your time and thank you for your participation at Echo Hawaii 2019!

Aloha!

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Invited Faculty

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Northwestern Medicine
Chicago, IL

Invited Faculty

Bonita Anderson, MA, MAppSc, DMU, AMS, FASE, ACS
Prince Charles Hospital
Brisbane, Queensland, Australia

Craig S. Broberg, MD
Oregon Health & Science University
Portland, OR

Kwan-Leung Chan, MD
University of Ottawa Heart Institute
Ottawa, Ontario, Canada

Anthony N. DeMaria, MD, FASE
Past President, ASE
University of California San Diego
San Diego, CA

Paul A. Grayburn, MD, FASE
Baylor Heart and Vascular Institute
Dallas, TX

Jong-Won Ha, MD, PhD
Yonsei University
Seoul, South Korea

Davinder S. Jassal, MD
University of Manitoba
Winnipeg, Manitoba, Canada

Jonathan R. Lindner, MD, FASE
President, ASE
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Portland, OR

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Mayo Clinic
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Lucy Safi, DO, FASE
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Hackensack, NJ

Madhav Swaminathan, MD, FASE
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Durham, NC

Francois B. Tournoux, MD, PhD
University of Montreal
Montréal, Québec, Canada

Gerard Wilkins, MD
University of Otago
Dunedin, New Zealand
Overview of Echo Hawaii

Echo Hawaii presents the latest information on established and emerging cardiovascular ultrasound technologies. Expert U.S. and international faculty discuss state-of-the-art technologies with a particular focus on how they can be effectively applied in the clinical setting. Case-based approaches are used to discuss new and established applications of echocardiography for diagnosis and guiding management in patients with a broad array of cardiovascular conditions. Topics include: advanced assessment of systolic and diastolic function, 3D/4D imaging, adult congenital heart disease and contemporary approaches to valve disease, guidance of interventional procedures, contrast echocardiography, ischemic heart disease, and aortic pathology. When appropriate, multimodality imaging is also covered. Special sessions include workshops on perioperative and critical care, diastology, and 3D echocardiography.

Target Audience

This course is designed for adult cardiologists, critical care specialists, cardiovascular surgeons, cardiovascular anesthesiologists, fellows in training, cardiovascular sonographers, internists, veterinarians, and intensive care specialists with special interest in echocardiography.

Learning Objectives

Upon completion of this program, participants will be better able to:

- Integrate echocardiographic information in clinical decision making.
- Assess ventricular and valvular function using Doppler hemodynamics.
- Describe Doppler assessment of diastolic function/dysfunction.
- Explain new advances in the echocardiographic assessment of left and right ventricular function.
- Integrate echocardiographic assessment of cardiomyopathies and systemic diseases in patient management.
- Define clinical uses of TEE and 3D echocardiography.
- Recognize how echocardiography is used to help manage patients with ischemic heart disease.
- Recognize the role of echo contrast and be able to incorporate its use in the echo laboratory.
- Integrate echo information in the management of complex valvular heart disease.
- Explain the role of echocardiography in the perioperative and critical care environment.

Disclaimer

The information provided during this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient’s condition.
ARDMS, CCI, and Sonography Canada recognize ASE’s certificates and have agreed to honor the credit hours toward their registry requirements for sonographers.

All or a portion of this educational activity may meet the CME requirement for IAC Echocardiography accreditation.

This activity is eligible for Section 1 credits in the Royal College of Physicians and Surgeons of Canada’s Maintenance of Certification (MOC) Program. Participants must log into MAINPORT to claim this activity.

Disclosure

ASE is committed to ensuring that its educational mission and all educational programs are not influenced by the special interests of any corporation or individual, and its mandate is to retain only those speakers whose financial interests can be effectively resolved to maintain the goals and educational integrity of the program. While a monetary or professional affiliation with a corporation does not necessarily influence a speaker’s presentation, the Essential Areas and Policies of the ACCME require that any relationships that could possibly conflict with the educational value of the program be resolved prior to the educational session and disclosed to the audience. In accordance with these policies, ASE implemented mechanisms prior to the planning and implementation of this CME activity to identify and resolve conflicts of interest for all individuals in a position to control content. Disclosure information is referenced and can be found on page 14 of this program.

Commercial Support Disclosure Statement

Educational Grants: This activity is supported in part by unrestricted educational grants from Actelion, Lantheus Medical Imaging, Inc., and Medtronic.

How to Obtain Credit

To claim your CME for Echo Hawaii, please follow the steps below using your Mozilla Firefox, Google Chrome, or Safari browser. Internet Explorer will not work. The deadline to claim credit is February 28, 2019.

ASE Members:

1. Go to ASEcho.org and log in to the Member Portal with your username (email) and password.
   a. If you forget your password, simply click “Retrieve” under the login.
2. Click on Education/ASEUniversity. This will take you directly to your ASEUniversity profile.

Nonmembers:

1. Go to ASEUniversity.org.
2. Log into your existing account or create a new one.

To Claim Credit:

3. Click Add Access Code on the left sidebar and enter the code, “HAWAII2019”
4. Verify your registration information. Please be sure to use the same information that you used to register for the event.
5. Once verified, click CE Information tab and Take Exam button to claim your CME credit. CME credits are not earned until the entire evaluation has been completed.
6. Your certificate will be available for immediate download and can also be found under My Account in the My Transcripts section.

Remember to enter your ABIM and/or ABA number and birthdate if you choose to have MOC and/or MOCA points for this meeting submitted to ABIM and/or ABA. There is a space for this information on the first page of the evaluation.
Registration Location and Hours

The ASE Registration desk is located outside the Hapuna Ballroom. ASE staff will be happy to renew your ASE membership or discuss the wide variety of educational products available to you. ASE Members receive a significant discount on DVDs, books, and more. The Registration desk will be staffed during the following hours:

Sunday, January 20, 2019 .................. 4:00 – 6:00 PM
Monday, January 21, 2019, through Friday, January 25, 2019, the registration desk will be open during all session hours.

Food Functions

ASE will provide breakfast and coffee breaks for registered attendees in the Hau/Lehua room from 6:30 AM until the start of the session each morning.

Please join us for a Welcome Reception on Monday evening from 6:30 – 7:30 PM in the Courtyard outside of Hapuna Ballroom and enjoy unique local cuisine, refreshments, and music. ASE will also hold a Sunset Reception on Wednesday, January 23 at 5:00 PM featuring original echo research.

Please refer to the program schedule for the times of the daily coffee breaks. The Westin Hapuna Beach Resort offers guests a variety of dining options. Please see page 7 for more details.

Internet Access

Attendees of the course receive complimentary internet in their guest rooms at the Westin Hapuna Beach Resort and Mauna Kea hotels. There is WiFi access in the meeting room.

Safety

Audience seating is on a first-come, first-served basis. According to fire code, a session must be closed if the room fills to capacity. Inappropriate behavior or undesirable conduct, including, but not limited to, verbal or physical abuse, whether threatened or performed, will not be permitted or tolerated. You must wear your name badge at all times when attending the session or events.

Photography/AV Policy

No person may record any portion of the 29th Annual Echo Hawaii, either by video, still or digital photography, audio or any other recording or reproduction mechanism. This includes recording of presentations and supporting audio visual materials and of poster presentations and supporting poster materials.

Taking photos of, or recording the content of, presentation slides is also prohibited and is considered intellectual piracy. Attendees who ignore this policy will be asked to leave the educational session and are at risk of losing their name badge and attendance privileges. Photographs taken for the purpose of sharing on social media is allowed, but should avoid showing presentation slides. Please use #EchoHawaii when posting on social media.

ASE reserves the rights to all recordings or reproductions at ASE meetings. Please be aware that during the 29th Annual Echo Hawaii, attendees, vendors, guests and exhibitors may be photographed or videotaped by ASE staff capturing the event. Some of these photographs or videos may be displayed by ASE in future publications or other materials. By virtue of your attendance, you agree to allow ASE to use photographs of you in its promotional materials.

Child Care Services

Child care services are available to both The Westin Hapuna and Mauna Kea Club guests through the Westin Family Kid’s Club. Please note, all services will be offered at The Westin Hapuna and need to be reserved by 5:00 PM the evening before (or prior to this time in advance) care is provided. For more information, please contact the hotel directly at 808-880-1111.

Half Day: $62.50/child; Morning option: 9:00 AM – 12:00 PM; Afternoon option: 1:00 – 4:00 PM. Both options include a snack.

Full Day: $125/child (includes snacks and lunch); Meals will be provided at Naupaka Beach Grill

Activities include: games, puzzles, Lego wall, reading, and other club room activities; cave and tide pools exploration, bamboo fishing, ukulele lessons, Hawaiian crafts, and more. For childcare hours outside of those listed above, we recommend contacting Malihini Keiki Care. Please visit MKCare.com for more information on their services.

Mobile Device Use

We encourage you to use your mobile device to download the new ASE Courses app. After you have downloaded the app, you will have access to the entire meeting program at your fingertips. You can also use the app to ask questions during the sessions you attend. Search “ASE Courses” in the Google Play and Apple Stores to download. Please remember to turn your mobile device to silent or vibrate mode.

Download the ASE Live Courses app for Echo Hawaii information at your fingertips
The Big Island, Hawaii

You will have some free time to enjoy the many sights and activities available on the Big Island such as snorkeling, whale watching, visiting the Volcano National Park, or driving to the summit of the tallest mountain in the world when measured from its oceanic base, Mauna Kea. Nestled amidst the bluffs above the white sands of the sunny Kohala Coast on the Big Island, the Westin Hapuna and Mauna Kea Beach Hotels offer the perfect spot to unplug, unwind, and explore the ocean with family and friends. Visit the concierge at either hotel for a full list of amenities and island offerings.

Westin Hapuna and Mauna Kea Beach Hotels

The Westin Hapuna Beach and Mauna Kea Beach Hotels are happy to extend these complimentary services for all ASE attendees:

- Complimentary turndown service.
- Complimentary self-parking for registered attendees with a room reservation at either Westin Hapuna or Mauna Kea.
- Complimentary access to the state-of-the-art fitness centers.

Westin Hapuna Beach Resort Dining Options

- Ikena Landing: Overlooking Hapuna Beach and the blue Pacific, this casual open-air restaurant offers a thoughtful mix of healthy, creative items along with familiar favorites at the daily breakfast buffet and an extensive à la carte menu. Open daily 6:30 – 10:30 AM. Casual Attire.
- Meridia: Mediterranean-inspired cuisine is created with locally sourced ingredients and infused with the island's rich bounty. Serving dinner. Reservations required. Smart Resort Casual Attire.
- Naupaka Beach Grill: Providing a casual setting within steps of the beach and family pool for salads, sandwiches and pupus. Serving lunch and dinner. Resort Attire.
- Piko: This centrally located barista bar features 100% Kona coffee, morning lattes, refreshing libations, light snacks, and fresh grab-and-go options. Serving breakfast, lunch, and dinner. Resort Casual Attire.

Mauna Kea Beach Hotel Dining Options

- Copper Bar: Designed to embrace its storied past while launching modern traditions for a dynamic future, it’s one of Kohala Coast’s favorite dining and gathering places. Tapas and entrees crafted with local ingredients, and handmade cocktails perfectly paired with enduring panoramic views at lunch, dinner and anytime in between. Nightly music with hula from 5:30 – 8:30 PM is a Mauna Kea tradition. Casual Resort Attire.
- Hau Tree: Step off the beach and into the open-air, Hau Tree restaurant & bar for a casual dining menu which includes sandwiches, wraps, hamburgers, salads, ice cream, our famous Ovaltine Froth, or a cooling Fredrico cocktail. Sit-down lunches and relaxed dinners are also offered, along with a gazebo-style bar perfectly situated for enjoying cocktails while anticipating the sunset’s elusive green flash. Casual Resort Attire.

- Manta: Begin your day in our open-air bay-view restaurant, home to a legendary breakfast buffet with made-to-order waffles and omelets, tropical fruits and juices, whole-grain cereals and tasty pastries. As the Big Island of Hawaii sun sets, the ambience changes as the Bar & Lounge come to life and chefs prepare culinary delights in Manta’s exhibition kitchen. With live, local music and an award-winning wine list a visit to Manta will enhance any evening. Resort Attire (Breakfast: Casual Resort Attire).

Number 3: Our clubhouse Number 3 restaurant offers casual island cuisine in a relaxed atmosphere adjacent to the first tee. Golfers, families, or anyone seeking a delicious lunch can enjoy everything from grass-fed burgers, fish tacos, and classic Crab Louis to cold beer on tap, frosty fruit smoothies, and signature Mauna Kea cocktails. Casual Resort Attire.

Don’t forget to ask about the Clambake and Mauna Kea Luau (both reservation only), which promise an evening of wonderful food and entertainment.

Networking and Social Opportunities

Sunrise Yoga Sessions: Get your body moving and keep your energy levels up, all while taking in a breathtaking Hawaiian sunrise! ASE attendees are invited to try sunrise yoga sessions on Tuesday and Thursday from 6:00 – 6:45 AM. Mats will be provided.

Welcome Reception: ASE cordially invites you and your guests to the 29th Annual Echo Hawaii Welcome Reception on Monday evening, January 21, 2019, from 6:30 – 7:30 PM in the hotel courtyard, featuring Hawaiian hors d’oeuvres, beverages, and local music. This casual reception welcomes you to paradise and offers you the perfect opportunity to meet faculty, friends, and colleagues.

Poster Session and Sunset Reception: Attendees are invited to this year’s poster presentation of original research on Wednesday evening, January 23, 2019, from 5:00 – 6:00 PM, featuring hors d’oeuvres and beverages. Posters will be displayed in the meeting area on the balcony overlooking the Pacific Ocean. This reception gives the presenters the opportunity to briefly present the key findings of their work and allows for open discussion. Please refer to pages 10–11 for the Echo Hawaii 2019 poster finalists.
# Schedule of Events

## SUNDAY, JANUARY 20, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 4:00 – 6:00 PM | Registration  
Outside Hapuna Ballroom                           |

## MONDAY, JANUARY 21, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 6:30 AM | Registration, Breakfast, and Visit Exhibits  
Outside Hapuna Ballroom and Hau/Lehua Room               |
| 7:00 AM | Welcome  
J. Thomas, N. Weissman                                  |
| 7:10 AM | Welcome from ASE President  
J. Lindner                                                  |
| 7:20 AM | A Master’s Approach to Assessing Left Ventricular  
Systolic Function  
A. DeMaria                                               |
| 7:40 AM | Assessment of Chest Pain: Do We Need a Multimodality  
Approach?  
D. Jassal                                               |
| 8:00 AM | Stress Echo: How to Improve Your Batting Average  
T. Ryan                                                   |
| 8:20 AM | Complications of Myocardial Infarction: Critical Role of  
Echo  
N. Weissman                                           |
| 8:40 AM | Contrast Can Be Used Routinely in a Busy Echo Lab  
A. DeMaria                                             |
| 9:00 AM | Perfusion Contrast Echo Imaging: Is This the Year?  
J. Lindner                                             |
| 9:20 AM | Panel with Audience Response  
A. DeMaria, D. Jassal, J. Lindner, T. Ryan, N. Weissman |
| 9:40 AM | Refreshment Break and Visit Exhibits  
Hau/Lehua Room                                        |
| 10:00 AM | Contrast Cases You Will Never Forget  
A. DeMaria, P. Grayburn, J. Lindner                       |
| 10:30 AM | Pearls from the Echo Textbook Editor: My Favorite  
Coronary Artery Disease/Left Ventricular Cases  
T. Ryan                                                   |
| 10:45 AM | Echo Beyond 2019: Therapeutic Ultrasound  
J. Lindner                                            |
| 11:00 AM | Cardiac MRI: Echo’s Friend or Foe?  
C. Broberg                                           |
| 11:20 AM | Think Quick: Make the Diagnosis with Just One Clip  
B. Anderson                                            |
| 11:40 AM | Panel with Audience Response  
B. Anderson, C. Broberg, A. DeMaria, P. Grayburn, J. Lindner, T. Ryan |
| 12:00 PM | Adjourn                                                   |
| 5:00 – 6:30 PM | 3D Scanning Workshop  
C. Mitchell, M. Petrescu, L. Safi  
Hapuna Ballroom                                         |
| 6:30 – 7:30 PM | Welcome Reception  
Courtyard                                                  |

## TUESDAY, JANUARY 22, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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</table>
| 6:30 AM | Registration, Breakfast, and Visit Exhibits  
Outside Hapuna Ballroom and Hau/Lehua Room               |

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## VALVE DISEASE Hapuna Ballroom

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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| 7:00 AM | Live Dissection: Aortic and Mitral Valves  
M. Petrescu                                      |
| 7:40 AM | Early Morning ‘Eye-Opening’ Cases: 3D for Valvular  
P. Grayburn, L. Safi                               |
| 8:00 AM | Calculating Mitral & Aortic Stenotic Valve Areas: Pearls and Pitfalls  
K. Chan                                        |
| 8:15 AM | When to Intervene on the Asymptomatic Valve Patient  
N. Weissman                                        |
| 8:30 AM | Valvular Regurgitation: Putting the New Guidelines into Practice  
J. Thomas                                             |
| 8:50 AM | The Most Common Errors in Assessing Mitral Regurgitation  
P. Grayburn                                           |
| 9:10 AM | Panel with Audience Response  
K. Chan, P. Grayburn, M. Petrescu, L. Safi, J. Thomas, N. Weissman |
| 9:30 AM | Refreshment Break and Visit Exhibits  
Hau/Lehua Room                                         |
| 9:50 AM | Live Dissection: Normal Tricuspid and Pulmonary Valves  
M. Petrescu                                          |
| 10:20 AM | Echo Beyond 2019: Transcutaneous Tricuspid Valve Repair  
S. Little                                             |
| 10:35 AM | A Practical Approach to Prosthetic Valves  
B. Anderson                                           |
| 10:55 AM | Managing Complex Endocarditis and Echo’s Vital Role  
T. Ryan                                               |
| 11:15 AM | Exercise Echo to Assess Valvular Heart Disease  
J. Oh                                                   |
| 11:30 AM | A Systematic Approach to Multi-Valve Disease  
J. Thomas                                             |
| 11:50 AM | Panel with Audience Response  
B. Anderson, S. Little, J. Oh, M. Petrescu, T. Ryan, J. Thomas |
| 12:00 PM | Adjourn                                                   |

## WEDNESDAY, JANUARY 23, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 6:30 AM | Registration, Breakfast, and Visit Exhibits  
Outside Hapuna Ballroom and Hau/Lehua Room               |

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## HEART FAILURE AND CARDIOMYOPATHY Hapuna Ballroom

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 7:00 AM | Early Morning ‘Eye-Opening’ Cases: Heart Failure  
K. Chan, J. Ha, C. Mitchell, F. Tournoux |
| 8:00 AM | Physiology of Diastolic Function Made Easy  
J. Thomas                                              |
| 8:15 AM | Beginners Guide to Strain: What Should Be in Your Lab in 2019  
B. Anderson                                            |
| 8:30 AM | Strain Imaging for Cardiomyopathies  
J. Oh                                                   |
| 8:50 AM | Cardiomyopathies: Multimodality Approach  
D. Jassal                                               |
| 9:10 AM | Assessing the Right Ventricle and Pulmonary Hypertension: Where Does Strain Fit In?  
A. DeMaria                                            |
7:00 AM | Early Morning ‘Eye-Opening’ Cases: Interventional and Perioperative | J. Oh, G. Wilkins
7:30 AM | Structural Heart Disease ‘Job Description’: Training, Workflow, Finances | S. Little
7:45 AM | TAVR: When Things Go Wrong | L. Safi
8:00 AM | 3D Echo Assessment of the MitraClip | M. Petrescu
8:20 AM | Left Atrial Appendage Occlusion: Role of Echo for High Quality Outcomes | L. Safi
8:40 AM | TEE in Emergent Situations | M. Swaminathan
9:00 AM | Panel and Audience Response | S. Little, J. Oh, M. Petrescu, L. Safi, M. Swaminathan, G. Wilkins
9:40 AM | Pearls from the ASE Guideline Chair | S. Little

7:00 AM | Coronary Artery Bypass Grafting: Monitoring Patients and Detecting Complications | M. Swaminathan
7:20 AM | Echo Beyond 2019: Devices You Never Imagined | P. Grayburn
7:40 AM | Making Sense of Unexpected Mitral Regurgitation in the Operating Room | M. Swaminathan
8:00 AM | Paravalvular Leaks: Echo to the Rescue! | G. Wilkins
8:20 AM | Diseases of the Aorta: How to Deal with Different Multi-Modality Measurements | C. Broberg
8:40 AM | Panel and Audience Response | C. Broberg, P. Grayburn, S. Little, M. Swaminathan, G. Wilkins
12:00 PM | Adjourn

5:00 – 6:30 PM | Interventional Echo Tips and Tricks Workshop | P. Grayburn, S. Little, L. Safi, G. Wilkins
Hapuna Ballroom

THURSDAY, JANUARY 24, 2019

6:30 AM | Registration, Breakfast, and Visit Exhibits | Outside Hapuna Ballroom and Hau/Lehua Room

PERIOPERATIVE, INTERVENTIONAL, AND CRITICAL CARE ECHO

Hapuna Ballroom

7:00 AM | Early Morning ‘Eye-Opening’ Cases: Interventional and Perioperative | J. Oh, G. Wilkins
7:30 AM | Structural Heart Disease ‘Job Description’: Training, Workflow, Finances | S. Little
7:45 AM | TAVR: When Things Go Wrong | L. Safi
8:00 AM | 3D Echo Assessment of the MitraClip | M. Petrescu
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11:20 AM | Diseases of the Aorta: How to Deal with Different Multi-Modality Measurements | C. Broberg
11:40 AM | Panel and Audience Response | C. Broberg, P. Grayburn, S. Little, M. Swaminathan, G. Wilkins

5:00 – 6:30 PM | Interventional Echo Tips and Tricks Workshop | P. Grayburn, S. Little, L. Safi, G. Wilkins
Hapuna Ballroom

FRIDAY, JANUARY 25, 2019

6:30 AM | Registration, Breakfast, and Visit Exhibits | Outside Hapuna Ballroom and Hau/Lehua Room

MISCELLANEOUS BUT IMPORTANT

Hapuna Ballroom

7:00 AM | Early Morning ‘Eye-Opening’ Cases from Around the World | J. Ha, D. Jassal, G. Wilkins
7:30 AM | Complications After Cardiac Devices | K. Chan
7:45 AM | Echo for the Athlete: What’s Normal and What’s Not? | F. Tournoux
8:00 AM | What Every Echocardiographer Should Know About Vascular Ultrasound | C. Mitchell
8:15 AM | Handheld Echo: Are These Small Machines Really Good Enough? | A. DeMaria
8:30 AM | Echo Beyond 2019: Will Artificial Intelligence Put Us Out of Business? | N. Weissman
8:45 AM | Refreshment Break and Visit Exhibits | Hau/Lehua Room
9:00 AM | New Echo Methods: Vortex and Gradient Imaging | F. Tournoux
9:20 AM | Cardio-Oncology: An Integrative Approach | D. Jassal
9:40 AM | Carcinoid and Other Unusual Conditions | C. Broberg
10:00 AM | Pericardial Disease and Tamponade | K. Chan
10:20 AM | Cardiac Masses You Will Never Forget | T. Ryan
11:00 AM | Mai Tai Finale and Aloha Until 2020 | J. Lindner, J. Thomas, N. Weissman

12:00 PM | Adjourn
Sunset Reception and Poster Presentations
Wednesday, January 23, 2019
5:00 – 6:00 PM
Located in The Westin Hapuna Breezeway

P1-01: Portable System for Intracardiac Injection Catheter Navigation with a Novel Use of Doppler Echocardiography
Marek Belohlavek, MD, PhD¹, Siva Kailas², Veronica V. Valtkus, R.D.C.S.¹, Viksit Kumar, PhD³, Mostafa Fatemi, PhD³, Minako Katayama, MD¹
¹Mayo Clinic College of Medicine and Science, Scottsdale, Arizona, USA; ²Arizona State University, Tempe, Arizona, USA; ³Mayo Clinic College of Medicine and Science, Rochester, Minnesota, USA
Presented By: Marek Belohlavek, MD, PhD

P1-02: Quantifying Right Ventricular Systolic Function Using Strain Imaging — Implications for Guiding Management in Patients with Severe Tricuspid Regurgitation
Arati Gurung, PhD¹, Shizhen Liu, MD, PhD², Nathan Barnes, BS³, Katherine Lee⁴, Sara Mobasser, MD², Hassan Sayegh, MD², Christopher Meduri, MD², Vivek Rajagopal, MD², Mani Vannan, MD²
¹Siemens Healthineers, Malvern, PA, USA; ²Piedmont Heart Institute, Atlanta, GA
Presented By: Arati Gurung, PhD

P1-03: A Systematic Review and Meta-Analysis of Association Between the Presence of Left-Sided Atrial Septal Pouch and Cryptogenic Stroke
Mateusz Krystian Holda, MD, PhD, Jakub Holda, Mateusz Koziej, MD, PhD
HEART - Heart Embryology and Anatomy Research Team, Department of Anatomy, Jagiellonian University Medical College, Cracow, Poland
Presented By: Mateusz Krystian Holda, MD, PhD

P1-05: Morphometrical Comparison of Patent Foramen Ovale Channel Features in Cryptogenic Stroke and Non-Stroke Patients
Jakub Holda¹, Mateusz Krystian Holda, MD, PhD¹, Agata Krawczyk-Dzog, MD¹, Danuta Sorysz, MD, PhD²
¹HEART - Heart Embryology and Anatomy Research Team, Department of Anatomy, Jagiellonian University Medical College, Cracow, Poland; ²Department of Interventional Cardiology, University Hospital, Jagiellonian University Medical College, Cracow, Poland
Presented By: Jakub Holda

P1-06: Allometric Indices of LVH
Merrill Stewart III, MD
Ochsner Heart & Vascular New Orleans, LA, United States
Presented By: Merrill Stewart III, MD

P1-07: Insonation Versus Auscultation in Valvular Disorders: Is Aortic Stenosis the Exception? A Systematic Review
Dylan Stanger, MD¹, Darryl Wan, MD¹, Nima Moghadam, MD¹, Niki Elahi², Edgar Argulian, MD, MPH², Jagat Narula, MD, PhD², Amir Ahmadi, MD²
¹Division of Cardiology, University of British Columbia, Vancouver, BC, Canada; ²Icahn School of Medicine at Mount Sinai Hospital, Mount Sinai Heart, New York, New York, USA
Presented By: Dylan Stanger, MD

P1-10: Structural and Functional Characteristics of Paravalvular Leakage Assessed by Multimodal Imaging Affecting Clinical Presentation in Patients with Prosthetic Mitral Valves
Jah Yeon Choi, MD, PhD¹, Young Joo Suh, MD, PhD², Kang-Un Choi, MD¹, Geu-Ru Hong, MD, PhD¹, Jong-Won Ha, MD, PhD¹, Young Jin Kim, MD, PhD², Chi Young Shim, MD, PhD¹
¹Division of Cardiology, Department of Internal Medicine, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea; ²Department of Radiology, Research Institute of Radiological Science, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
Presented By: Chi Young Shim, MD, PhD

P1-11: New Parameter Derived from Three-Dimensional Speckle-Tracking Echocardiography for Estimation of Left Ventricular Filling Pressure: Assessment in the Clinical Setting
Taiji Okada, MD¹, Toshihiko Asanuma, MD², Kazuto Yamaguchi, BS³, Akihiro Endo, MD¹, Hiroyuki Yoshitomi, MD¹, Satoshi Nakatani, MD², Kazuaki Tanabe, MD¹
¹Shimane University Hospital, Izumo, Shimane, Japan; ²Osaka University Graduate School of Medicine, Suita, Osaka, Japan
Presented By: Taiji Okada, MD
P1-12: Is Echocardiography More Sensitive than CT and Cardiac Magnetic Resonance (CMR) in Quantifying Pericardial Effusion? A Comparison to Volumetric Analysis  
Neha Gupta, MD1, Sager Alkharabsheh, MD2, Christine Jellis, MD2, Allen Klein, MD, FASE3  
1Georgetown University/Medstar Washington Hospital Center, Washington DC, USA; 2The Cleveland Clinic Foundation, Cleveland, Ohio, USA  
Presented By: Neha Gupta, MD

P1-13: Optimizing Cardiovascular Imaging for Diagnosing Infective Endocarditis  
Tripti Gupta, MD, Sangeeta Shah, MD  
Ochsner Medical Center, New Orleans, LA, USA  
Presented By: Tripti Gupta, MD

P1-14: Can Doppler Tissue Evaluation of Atrial Electromechanical Delay Predict Future Atrial Fibrillation?  
Kanako Akamatsu, MD, Takahide Ito, MD, Yumiko Kanzaki, MD, Noboru Ichihara, MD, Masatoshi Miyamura, MD, Koichi Sohmiya, MD, Masaaki Hoshiga, MD  
Department of Cardiology, Osaka Medical College, Takatuski, Osaka, Japan  
Presented By: Kanako Akamatsu, MD

P1-15: Left Ventricular Diastolic Dysfunction is Common in Bicuspid Aortic Valve Patients Undergoing Aortic Valve Replacement  
Johan O. Wedin, MD1, Ola Vedin, MD, PhD2, Elisabeth Ståhle, MD1, Karl-Henrik Grinnemo, MD1  
1Department of Surgical Sciences, Thoracic Surgery, Uppsala University Hospital, Uppsala, Sweden; 2Department of Medical Sciences, Cardiology, Uppsala University Hospital, Uppsala, Sweden  
Presented By: Johan O. Wedin, MD

P1-16: The Single Centre Registry of Hypertrophic Cardiomyopathy: Overall Results and Benefits  
Kang-Un Choi, MD1, Jong-Ho Nam2, Hyeonju Jeong1, Jah Yeon Choi1, Chi Young Shim, MD, PhD1, Jong-Won Ha, MD, PhD1, Geu-Ru Hong, MD, PhD1  
1Division of Cardiology, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, South Korea; 2Division of Cardiology, Yeungnam University Medical Center, Daegu, Korea  
Presented By: Kang-Un Choi, MD

P1-17: Speckle Tracking on Right Ventricular Two Chamber View on ASD Patients Before and After Closure Procedure: Is It Possible?  
LE Tuan Thanh, MD, PhD, PHAM Nhat Minh, MD, KIM Ngoc Thanh, MD, Msc, DO Doan Loi, MD, PhD, FACC, TRUONG Thanh Huong, MD, PhD  
Vietnam National Heart Institute  
Presented By: LE Tuan Thanh, MD, PhD

P1-19: Ticagrelor Significantly Increased Brachial Artery Flow Mediated Dilation and Circulating Endothelial Progenitor Cells in Diabetic Non ST-Elevation ACS Patients  
Soon Jun Hong, MD, PhD1, Sang Ho Cho, MD2, Hoon Jun Park, MD3  
1Korea University Anam Hospital, Seoul, Korea; 2Hallym University Medical School, Pyungchon, Kyungkido; 3Seoul Catholic Hospital, Seoul, Korea  
Presented By: Soon Jun Hong, MD, PhD

P1-20: Exercise Improved Flow Mediated Dilation after Hamburger Diet Compared with Korean Food  
Jae Hyoung Park, MD1, Hyo-Jung Nam, MD2  
1Korea University Anam Hospital, Seoul, Korea; 2Asan Medical Center, Seoul, Korea  
Presented By: Jae Hyoung Park, MD
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Exhibits are located in the Hau/Lehua Room during the dates and hours listed below.

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Tuesday, January 22 ....................................... 6:30 AM – 12:00 PM
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Thursday, January 24 ................................. 6:30 AM – 12:00 PM
Friday, January 25 ........................................ 6:30 AM – 9:00 AM

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