FINAL PROGRAM
January 15-19, 2018
Hapuna Beach Prince Hotel
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

Jointly provided by ASE and the ASE Foundation, and held in cooperation with the Canadian Society of Echocardiography.
Join Us For A Free Continuing Education Lunch Symposium

Monday, January 15, 2018

12:00 PM–12:05 PM  Welcome, Introductions, and Learning Objectives
Program Chair
Neil J. Weissman, MD, FASE
Past President, ASE
MedStar Health Research Institute
Washington, DC

12:05 PM–12:25 PM  The Clinical and Economic Value of CE Echocardiography
Neil J. Weissman, MD, FASE

12:25 PM–12:45 PM   Practical Approach to Improving Efficiencies in CE Echocardiography
Jonathan R. Lindner, MD, FASE
President Elect, ASE
Oregon Health Science University
Portland, OR

12:45 PM–1:05 PM     CE Echocardiography in Action: Interactive Case Presentations
Anthony N. DeMaria, MD, FASE
Past President, ASE
University of California San Diego
San Diego, CA

1:05 PM–1:15 PM      Program Summary and Conclusions
Neil J. Weissman, MD, FASE

SYMPOSIUM LEARNING OBJECTIVES
After completing this activity, participants will be able to:

• Review indications and suspected diagnoses for which CE echocardiography is the imaging modality of choice and how the use of contrast can improve diagnoses, positively affect patient management decisions and outcomes, and lower overall healthcare costs

• Discuss systems, protocols, and methods that help optimize workflow in CE echocardiography

• Describe the diagnostic, patient management, and economic benefits of optimizing workflow in CE echocardiography

Approved by Medical Education Resources for physicians for 1.0 SDMS CME Credit.
Approved by the Society of Diagnostic Medical Sonography (SDMS) for 1.0 SDMS CME Credit.

This activity is jointly provided by:
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 and Wednesday, 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 Hapuna Beach Prince Hotel.

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 2018!

Aloha!

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

James D. Thomas, MD, FASE
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Past President, ASE
Northwestern Medicine
Chicago, IL
Invited Faculty

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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

Invited Faculty
Bonita A. Anderson, MApplSc, DMU, AMS, ACS, FASE
Prince Charles Hospital
Brisbane, Queensland, Australia

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MedStar Washington Hospital
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Ana Barac, MD, PhD
MedStar Heart and Vascular Institute
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Anthony N. DeMaria, MD, FASE
Past President, ASE
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San Diego, CA

Paul A. Grayburn, MD, FASE
Baylor Heart and Vascular Institute
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Asan Medical Center
Seoul, Korea

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Tokushima University Hospital
Tokushima, Japan

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President Elect, ASE
Oregon Health & Science University
Portland, OR

Stephen H. Little, MD, FASE
Houston Methodist Hospital
Houston, TX

Jae K. Oh, MD, FASE
Mayo Clinic
Rochester, MN

Madalina Petrescu, MD
Swedish Medical Center
Seattle, WA

Vera H. Rigolin, MD, FASE
President, ASE
Northwestern Medicine
Chicago, IL

Lawrence G. Rudski, MD, FASE
Jewish General Hospital
Montreal, QC, Canada

Sangeeta B. Shah, MD, FASE
Ochsner Heart and Vascular Institute
New Orleans, LA

Madhav Swaminathan, MD, FASE
Duke University Medical Center
Durham, NC

Paaladinesh Thavendiranathan, MD, FASE
University Health Network
Toronto, ON, Canada

Wendy Tsang, MD
University of Toronto
Toronto, ON, Canada

Gerard T. 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 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, 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.
• 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.
• Determine the role of echocardiography in structural heart procedures.
• 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.
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 23, 2018.

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 ASEUniversity and CME Credits. This will take you directly to your ASEUniversity member profile.

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

To Claim Credit:
3. On the ASEUniversity homepage, click My Account at the top right of the page.
4. Under My Account, click Add Access Code on the left sidebar and enter the code, “28thHAWAII”
5. Verify your registration information. Please be sure to use the same information that you used to register for the event.
6. 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.
7. Your certificate will be available for immediate download and can also be found under My Account in the My Transcripts.

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.

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 beginning on page 15 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.
Attendee Information & Regulations

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 14, 2018 4:00 – 6:00 PM
Monday, January 15, 2018, through Friday, January 19, 2018, 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.
ASE will provide a box lunch for registered attendees on Monday, January 15.
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 17 at 5:00 PM featuring original echo research.
Please refer to the program schedule for the times of the daily coffee breaks. The Hapuna Beach Prince Hotel offers guests a variety of dining options along with Echo Hawaii attendee discounts. Please see page 8 for more details.

Internet Access
Attendees of the course receive complimentary internet in their guest rooms at the Hapuna Beach Prince 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 28th 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 28th 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 publication or other materials. By virtue of your attendance, you agree to allow ASE to use photographs of you in its promotional materials.

Children
ASE does not offer childcare services. Due to limited seating capacity and the highly technical nature of this program, children are not allowed to attend the educational session. For their safety, children must be accompanied by an adult at all times when attending the course events.

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. Please remember to turn your mobile device to silent or vibrate mode. Search “ASE Courses” in the Google Play and Apple Stores to download.
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 Hapuna Beach Prince 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.

Hapuna Beach Prince and Mauna Kea Beach Hotels
The Hapuna Beach Prince and Mauna Kea Beach Hotels are happy to extend these special discounts for all ASE attendees:

• Buy one entrée and receive the 2nd at 50% off in Mauna Kea Hotel restaurants, including the Hau Tree, Manta Restaurant and Number 3 Restaurants; must present attendee name badge prior to ordering.

• Complimentary turndown service.

• Complimentary self-parking for registered attendees with a room reservation at either Hapuna Beach Prince or Mauna Kea.

• $10.00 USD flat fee for daily parking for registered attendees not staying at Hapuna Beach Prince or Mauna Kea.

• Complimentary access to the state-of-the-art fitness centers.

To receive these discounted offers, please identify yourself as an ASE Echo Hawaii attendee.

Hapuna Beach Prince Hotel Dining Options
• Café Hapuna: Located in the lobby, the Café Hapuna offers made-to-order or ready-to-go sandwiches, specialty coffee drinks, breakfast sweets, calzones, pizza, gourmet cookies, cupcakes and a salad bar where you can build-your-own salad. Open daily 6:00 AM – 8:00 PM.

• Ikena Restaurant: 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 a la carte menu. Open daily 6:30 – 10:30 AM. Resort Attire.

• Naupaka Restaurant: Located poolside, the Beach Bar is open daily serving lunch and dinner. Casual Resort Attire.

Mauna Kea Beach Hotel Dining Options
• 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 ambiance 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).

• Copper Bar: Redesigned 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.

• 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.

• Hau Tree: Step off the beach and into the open-air, Hau Tree restaurant & bar for a causal 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.

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
Welcome Reception: ASE cordially invites you and your guests to the 28th Annual Echo Hawaii Welcome Reception on Monday evening, January 15, 2018, 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 17, 2018, 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 11–12 for the Echo Hawaii 2018 poster finalists.
### SUNDAY, JANUARY 14, 2018

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<th>Event</th>
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<tr>
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### MONDAY, JANUARY 15, 2018

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<tr>
<td>6:30 AM</td>
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<td>Breakfast and Visit Exhibits</td>
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### LEFT VENTRICULAR FUNCTION, CORONARY ARTERY DISEASE, AND CONTRAST

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Welcome</td>
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<td>J. Thomas, N. Weissman</td>
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<td>7:10 AM</td>
<td>Welcome from ASE President</td>
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<td>V. Rigolin</td>
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<tr>
<td>7:15 AM</td>
<td>Coffee and Cases: Critical Role of Echo in Coronary Artery Disease</td>
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<tr>
<td></td>
<td>L. Rudski</td>
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<tr>
<td>7:30 AM</td>
<td>Systolic Function: It's Not Just Ejection Fraction Anymore!</td>
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<td></td>
<td>W. Tsang</td>
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<td>7:50 AM</td>
<td>Echo for the Assessment of Acute Chest Pain</td>
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<td>G. Wilkins</td>
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<td>8:10 AM</td>
<td>Getting the Most Out of Stress Echo</td>
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<td></td>
<td>V. Rigolin</td>
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<tr>
<td>8:30 AM</td>
<td>Complications of Myocardial Infarction: Critical Role of Echo</td>
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<td></td>
<td>N. Weissman</td>
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<td>8:50 AM</td>
<td>Panel with Audience Response</td>
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<td></td>
<td>V. Rigolin, L. Rudski, W. Tsang, N. Weissman, G. Wilkins</td>
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<tr>
<td>9:10 AM</td>
<td>Refreshment Break and Visit Exhibits</td>
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<td>Hau/Lehua Room</td>
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<tr>
<td>9:30 AM</td>
<td>A Very Practical Approach to Incorporating Contrast into a Busy Lab</td>
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<td></td>
<td>A. DeMaria</td>
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<td>9:50 AM</td>
<td>Perfusion Contrast Echo Imaging: Is This the Year?</td>
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<td></td>
<td>J. Lindner</td>
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<td>10:00 AM</td>
<td>Contrast Cases You Will Never Forget</td>
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<td></td>
<td>A. DeMaria, P. Grayburn</td>
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<td>10:30 AM</td>
<td>Innovation Interlude: Molecular Imaging</td>
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<td>J. Lindner</td>
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<td>10:45 AM</td>
<td>Panel with Audience Response</td>
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<td></td>
<td>A. DeMaria, P. Grayburn, J. Lindner</td>
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<tr>
<td>11:00 AM</td>
<td>When Does 3D Echo Make a Difference?</td>
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<td>W. Tsang</td>
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<td>11:20 AM</td>
<td>Cardiac MRI: Echo’s Friend or Enemy?</td>
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<td>P. Thavendiranathan</td>
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<td>11:40 AM</td>
<td>Think Quick: Make the Diagnosis with Just One Clip</td>
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<td></td>
<td>B. Anderson</td>
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<td>12:00 PM</td>
<td>Adjourn</td>
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### TUESDAY, JANUARY 16, 2018

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<td>Breakfast and Visit Exhibits</td>
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### VALVE DISEASE

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<th>Time</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Live Dissection: Aortic and Mitral Valves</td>
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<tr>
<td></td>
<td>M. Petrescu</td>
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<tr>
<td>7:30 AM</td>
<td>Coffee and Cases: I Use 3D for Valve Cases All the Time</td>
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<tr>
<td></td>
<td>A. DeMaria, S. Little, M. Petrescu</td>
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<tr>
<td>8:00 AM</td>
<td>Aortic Stenosis: Going Beyond Gradient</td>
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<td>D. Kang</td>
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<td>8:15 AM</td>
<td>When to Intervene on the Asymptomatic Patient</td>
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<td>N. Weissman</td>
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<tr>
<td>8:30 AM</td>
<td>Valvular Regurgitation: Putting the New Guidelines into Practice</td>
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<td>J. Thomas</td>
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<td>8:50 AM</td>
<td>The Top Common Errors in Assessing Mitral Regurgitation</td>
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<td></td>
<td>P. Grayburn</td>
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<td>9:10 AM</td>
<td>Panel with Audience Response</td>
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<td></td>
<td>A. DeMaria, P. Grayburn, D. Kang, S. Little, M. Petrescu, J. Thomas, N. Weissman</td>
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<tr>
<td>9:30 AM</td>
<td>Refreshment Break and Visit Exhibits</td>
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<td>Hau/Lehua Room</td>
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<tr>
<td>9:50 AM</td>
<td>Live Dissection: Normal Tricuspid and Pulmonary Valves</td>
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<td></td>
<td>M. Petrescu</td>
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<td>10:10 AM</td>
<td>The Forgotten Valves: Tricuspid and Pulmonic Valve Pathology</td>
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<td>L. Rudski</td>
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<td>10:25 AM</td>
<td>A Practical Approach to Prosthetic Valves</td>
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<td>B. Anderson</td>
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<tr>
<td>10:45 AM</td>
<td>Managing Complex Endocarditis and Echo’s Vital Role</td>
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<td></td>
<td>D. Kang</td>
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<td>11:05 AM</td>
<td>Role of Stress Echo in Valvular Heart Disease</td>
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<td>K. Kusunose</td>
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<td>11:20 AM</td>
<td>A Systematic Approach to Multi-Valve Disease</td>
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<td>J. Thomas</td>
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<td>11:40 AM</td>
<td>Panel with Audience Response</td>
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<td>B. Anderson, D. Kang, K. Kusunose, M. Petrescu, L. Rudski, J. Thomas</td>
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### WEDNESDAY, JANUARY 17, 2018

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<td>Outside Hapuna Ballroom</td>
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<td>Breakfast and Visit Exhibits</td>
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### HEART FAILURE AND CARDIOMYOPATHY

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<th>Time</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Coffee and Cases: Heart Failure is Easy!</td>
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<tr>
<td></td>
<td>D. Kang, J. Lindner, M. Petrescu, P. Thavendiranathan</td>
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<tr>
<td>8:00 AM</td>
<td>Physiology of Diastolic Function Made Easy</td>
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<td></td>
<td>J. Thomas</td>
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<tr>
<td>8:15 AM</td>
<td>Beginner’s Guide to Strain: What Should Be in Your Lab in 2018</td>
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<td>B. Anderson</td>
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<td>8:30 AM</td>
<td>Cardiomyopathies: Hypertrophic Obstructive Cardiomyopathy and Beyond</td>
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<td>L. Rudski</td>
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8:50 AM  Practical Ways to Incorporate a Diastolic Assessment Into Every Echo  J. Oh

9:10 AM  Pulmonary Hypertension and Pulmonary Embolism: Role of Echo  K. Kusunose


9:45 AM  Refreshment Break and Visit Exhibits Hau/Lehua Room

10:05 AM  Constriction and Restriction: Never Get Confused Again!  J. Oh

10:25 AM  Echo Assessment of LVADs  F. Asch

10:45 AM  Innovation Interlude: 3D Quantitative Doppler  P. Thavendiranathan

11:00 AM  Adult Congenital Heart Disease: What All Echocardiographers Should Know  S. Shah

11:20 AM  When Do Adults with Congenital Heart Disease Need an Intervention: The Role of Echo  S. Shah

12:00 PM  Adjourn

3:30 – 5:00 PM  Workshop: Diastology and Advanced Strain  Hapuna Ballroom

5:00 – 6:00 PM  Abstract Poster Presentation and Reception  Breezeway

THURSDAY, JANUARY 18, 2018

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

PERIOPERATIVE, INTERVENTIONAL AND CRITICAL CARE ECHO  Hapuna Ballroom

7:00 AM  Coffee and Cases: Perioperative, Critical Care, and Interventional  M. Swaminathan, W. Tsang, G. Wilkins

7:30 AM  Putting Together a Structural Heart Program from the Imager’s Perspective  S. Little

7:45 AM  Percutaneous Approaches to Aortic Disease in 2018  W. Tsang

8:00 AM  Get Ready for Percutaneous Mitral Valve Approaches  P. Grayburn

8:15 AM  TAVR: When Things Go Wrong  F. Asch

8:30 AM  TEE Essential in Paravalvular Leak Closure and Pseudoaneurysms Repair  G. Wilkins

8:45 AM  Panel with Audience Response  F. Asch, P. Grayburn, S. Little, M. Swaminathan, W. Tsang, G. Wilkins

9:15 AM  Refreshment Break and Visit Exhibits Hau/Lehua Room

9:40 AM  Echo Emergencies  V. Rigolin

10:00 AM  Coronary Artery Bypass Graft: Monitoring Patients and Detecting Complications  M. Swaminathan

10:20 AM  Innovation Interlude: 3D Printing and Echocardiography  S. Little

10:40 AM  Dealing with the Unexpected in the Operating Room  M. Swaminathan

11:00 AM  Diseases of the Aorta  F. Asch

11:20 AM  Intraoperative Echo: Is There a Role for Advanced Echo Techniques (3D, Strain, etc.)?  M. Swaminathan

11:40 AM  Panel with Audience Response  F. Asch, S. Little, V. Rigolin, M. Swaminathan

12:00 PM  Adjourn

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

FRIDAY, JANUARY 19, 2018

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

MISCELLANEOUS BUT IMPORTANT  Hapuna Ballroom

7:00 AM  Coffee and Cases: From Around the World  F. Asch, A. Barac, W. Tsang

7:45 AM  ASE International Initiatives  F. Asch

8:00 AM  The Athlete’s Heart: Critical Role of Echo  N. Weissman

8:15 AM  Masses: A Multimodality Approach  S. Shah

8:30 AM  Cardio-Oncology: Basics and Knowing When You Need an Echo  V. Rigolin

8:45 AM  Cardio-Oncology: Applying New Echo Technology to Guide Therapy  P. Thavendiranathan

9:00 AM  Cardio-Oncology Panel: Present Unknown Cases  Moderator: A. Barac
Panelists: A. DeMaria, V. Rigolin, P. Thavendiranathan

9:30 AM  Refreshment Break and Visit Exhibits Hau/Lehua Room

9:50 AM  Innovation Interlude: Machine Learning Applications to Echo  N. Weissman

10:00 AM  Pericardial Disease and Tamponade  J. Oh

10:20 AM  Pregnancy and Heart Disease  S. Shah

10:40 AM  Echo in Systemic Diseases: Sarcoid, Amyloid, etc.  V. Rigolin

11:00 AM  Mai Tai Finale: Mesmerized by All Interesting Cases: Time for Audience Interpretation  F. Asch, J. Oh, M. Petrescu, M. Swaminathan, J. Thomas

12:00 PM  Closing Remarks and Aloha!
Poster Presentations

Sunset Reception & Poster Presentations
Wednesday, January 17, 2018
5:00 – 6:00 PM
Located in Hapuna Beach Prince Hotel Breezeway

P1-01: Mechanical Dispersion by Strain Echocardiography: A Marker of Left Ventricular Dysfunction and Prognosis in Stable Coronary Artery Disease
Brede Kvisvik1,2,3, Erika Nerdrum Aagaard1,2, Lars Markid4, Helge Raså1,2, Mari Kristine Smørdum1,5, Christian Eek6, Bjørn Bendz6, Kristina Haugaa7,8, Thor Edvardsen2,3,9, Jørgen Graaening10,11. 1Department of Cardiology, Division of Medicine, Akershus University Hospital, Lørenskog, Norway; 2Center for Heart Failure Research, University of Oslo, Norway; 3Center for Cardiological Innovation, University of Oslo, Norway; 4Department of Medical Biochemistry, Oslo University Hospital, and Institute for Clinical Medicine, University of Oslo, Norway; 5Department of Paediatric and Adolescent Medicine, Oslo University Hospital, Norway; 6Department of Cardiology, Oslo University Hospital, Norway. Presented by Brede Kvisvik

P1-02: Impact of Dynamic Arterial Stiffening on Left Ventricular Diastolic Reserve and Exercise Capacity
Chi Young Shim1,2, Darae Kim1, Geu-Ru Hong1, Hyun-Jin Lee3, Sun-Ha Moon1, Nam-Sik Chung4, Jong-Won Ha5,1. 1Cardiology Division, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Korea; 2Severance Biomedical Science Institute, Yonsei University College of Medicine, Seoul, Korea. Presented by Chi Young Shim, MD, PhD

P1-03: Ultrasound Molecular Imaging of Endothelial Activation and Platelet Adhesion in Remote Arteries after Myocardial Infarction: Implications for Reducing Risk for Remote Recurrent Atherosclerotic Events
Federico Moccetti1, Eran Brown1, Aris Xie1, Zaverio Ruggeri2, Yue Qi2, Jose Lopez2, Jonathan R. Lindner1. 1Knight Cardiovascular Institute, Oregon Health & Science University, Portland, Oregon; 2Scrpps Research Institute, La Jolla, California; 3Bloodworks Northwest Research Institute, Seattle, Washington. Presented by Federico Moccetti, MD

P1-04: Use of Beta-blocker is Associated with Lower Mortality in Hospitalized Patients with Heart Failure with Preserved Ejection Fraction and Decreased Global Longitudinal Strain
Goo-Yeong Cho1, Jin-Ju Park2, Hyun-Joon Jeong3, Myung-Woo Park4, Moon-Ji Park2,3, Jong Chun Park. 1Department of Cardiology, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Korea; 2Division of Cardiology, Herlev & Gentofte Hospital, University of Copenhagen, Copenhagen, Denmark; 3Department of Cardiovascular Medicine, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark; 4Department of Medicine, Cardiovascular Medicine Division, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts. Presented by Goo-Yeong Cho, MD, PhD

P1-05: Clinical Outcomes of Discordant Exercise Electrocardiographic and Echocardiographic Findings Compared to Concordant Findings in Patients with Chest Pain and No History of Coronary Artery Disease
Hui-Jeong Hwang, Il Suk Sohn, Chang-Bum Park, Eun-Sun Jin, Jin-Man Cho, Chong-Jin Kim. Division of Cardiology, Department of Internal Medicine, Kyung Hee University Hospital at Gangdong, Kyung Hee University School of Medicine, Seoul, Korea. Presented by Hui-Jeong Hwang, MD

P1-06: Left Atrial Global Longitudinal Strain as a New Predictor of Cardiotoxicity in Breast Cancer Patients
Hyukjin Park, Minah Kim, Hyung Ki Jeong, Kye Hun Kim, Jae Yeong Cho, Hyun-Jyoo Yoon, Doo Sun Sim, Nam Sik Yoon, Young Joon Hong, Hyung Woo Park, Ju Han Kim, Younggeun Ahn, Myung Ho Jeong, Jeong Gwan Cho, Jong Chun Park. Department of Cardiology, Chonnam National University Hospital, Gwangju, Korea. Presented by Hyukjin Park, MD

P1-07: Ratio of Transmitral Early Filling Velocity to Early Diastolic Strain Rate as a Predictor of Heart Failure and Acute Myocardial Infarction following Acute Coronary Syndrome
Mats Højbjerg Lassen1,2, Kristoffer Grundtvig Skaarup1, Allan Iversen1, Peter Godsk Jørgensen1, Flemming Jørgen Olsen1, Jan Skov Jensen1,2, Tor Biering-Sørensen1,4,1. 1Department of Cardiology, Herlev & Gentofte Hospital, University of Copenhagen, Copenhagen, Denmark; 2Division of Cardiology, University of California San Francisco, San Francisco, California; 3Institute of Clinical Medicine, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark; 4Department of Medicine, Cardiovascular Medicine Division, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts. Presented by Mats Højbjerg Lassen

P1-08: Development and Validation of a New Ultra Small Microbubble Contrast Agent for Contrast Echocardiography
Bruno Cotter1, Monet Strachan1, Anthony DeMaria1, Joan Main2, Chung-Hsin Wang2, University of California San Diego, San Diego, California; 2Trust Bio-Sonics, Zhubei City, Hsinchu County, Taiwan. Presented by Joan Main, BS, RDSc, MBA, FASE

P1-09: Global Longitudinal Strain is not Completely Recovered in Dilated Cardiomyopathy with Recovered Left Ventricular Ejection Fraction
Hyung Ki Jeong, Kye Hun Kim, Ji-Eun Kim, Hyukjin Park, Hyun-Jyoo Yoon, Jong Chun Park. Department of Cardiovascular Medicine, Chonnam National University Hospital, Gwangju, Korea. Presented by Hyung Ki Jeong, MD
Poster Presentations

P1-10: Impact of Veno-arterial Extracorporeal Membrane Oxygenation on Left and Right Ventricular Function: A Longitudinal Speckle-tracking Echocardiographic Study
Maxime Pichette1, Tommaso Pettenuzzo1, Ghislaine Doufle1, Adriana Luk1, Massimiliano Meineri1,2, Eddy Fan1. 1Interdepartmental Division of Critical Care Medicine, University of Toronto, Toronto, Canada; 2Division of Cardiology, University of Toronto, Toronto, Canada; 2Department of Anesthesia, University of Toronto, Toronto, Canada.
Presented by Maxime Pichette, MD, MSc

P1-11: Transesophageal Echocardiographic Methods for Assessment of Right Ventricular Function
Patrick T. Schofield, Emily E. Naoum, Tao Shen, Michael N. Andrawes, Alexander S. Kuo. Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts.
Presented by Patrick Schofield, MD

P1-12: Comparison of Preventive Effect of Candesartan and Cavedilol in Doxorubicin-induced Subclinical Cardiotoxicity: Result from ProSpective Registry for Prediction and PreVEntion of CHEmotherapy-induced CARDiotoxicity in Patients with Breast Cancer (SAVE-HEART) Study
Sunhwa Kim1, Woo-Baek Chung1, Byung Joo Chae2, Woo Chan Park2, Byung-Joo Song2, Ho-Joong Youn1. 1Department of Cardiology, The Catholic University of Korea, St. Mary’s Hospital, Seoul, Korea; 2Department of Surgical Oncology, The Catholic University of Korea, St. Mary’s Hospital, Seoul, Korea.
Presented by Sunhwa Kim, MD

P1-13: Rationale and Design of the World Alliance of Societies of Echocardiography (WASE) Normal Values Study
Tatsuya Miyoshi1,2, Diego Medvedofsky3, RhondaPRICE1, Jose Banchs4, Vera Rigolin5, James D. Thomas6, Neil J. Weissman7, Susan Wiegers8, Roberto M. Lang9, Federico Moccetti10, Rhonda Price11, 9American Society of Echocardiography, Durham, North Carolina; 9The University of Texas MD Anderson Cancer Center, Houston, Texas; 4Northwestern Medicine, Chicago, Illinois; 6The Temple University, Philadelphia, Pennsylvania; 7The University of Chicago, Chicago, Illinois.
Presented by Tatsuya Miyoshi, MD, PhD

P1-14: Detecting Subtle Drop in Left Ventricular Ejection Fraction (LVEF) During Reduced Dosing Anthracycline Based Chemotherapy in Susceptible Patients: A Single Institution Clinical Trial with SOSOSC Approach
Yazan Numan1, Rani Shah2, Ahmad Amro2, Hisham Hirzallah1, Yasir Jawad1, Damir Kusmic1, Ala’a Gabi1, Todd Gress1, Maria Tirona3, Ellen Thompson2. 1Internal Medicine Department, Marshall University, Huntington, West Virginia; 2Cardiology Department, Marshall University, Huntington, West Virginia; 3Edwards Comprehensive Cancer Center, Huntington, West Virginia.
Presented by Hisham Hirzallah, MD

P1-15: Ultrasound Molecular Imaging of Endothelial Prothrombotic Changes with Bruton Tyrosine Kinase Inhibitor Therapy
Yllka Latifi, Federico Moccetti, Melinda Wu, Eran Brown, Aris Xie, Yue Qi, Jonathan R. Lindner. Oregon Health & Science University, Portland, Oregon.
Presented by Yllka Latifi, MD

P1-16: Cardiac Outcomes in Orthotopic Liver Transplant Recipients and the Negative Predictive Value of Preoperative Stress Testing
Presented by Ruchir Patel, MD

P1-17: The Role of Statins on Progression of Aortic Valve Sclerosis
Dong Ryol Ryu1, Jeonghun Seo2, Bong-Ki Lee1, Byung-Ryul Cho1. 1Division of Cardiology, Department of Internal Medicine, School of Medicine, Kangwon National University, Chunchon, Korea; 2Department of Internal Medicine, Kangwon National University Hospital, Chunchon, Korea.
Presented by Dong Ryol Ryu, MD, PhD

P1-18: Prognostic Value of Left Atrium Volume Index after Primary Percutaneous Coronary Intervention in Patients with ST Elevation Acute Myocardial Infarction
Pil-Sang Song1, Hyun Jong Lee2, Cheol Woong Yu1. 1Division of Cardiology, Cardiovascular Center, Mediplex Sejong Hospital, Incheon, Korea; 2Division of Cardiology, Department of Internal Medicine, Sejong General Hospital, Bucheon, Korea; 3Division of Cardiology, Department of Internal Medicine, Korea University Anam Hospital, Korea University School of Medicine, Seoul, Korea.
Presented by Pil-Sang Song, MD

P1-19: Echocardiographic Predictors of Heart Failure in Hypertensive Cardiomyopathy
Sood Kisra, Duong Le, BhaviK Khatri, Chandra Katikireddy. UCSF Fresno, Fresno, California.
Presented by Sood Kisra
Exhibit Location and Hours

Exhibits are located in the Hau/Lehua Room during the dates and hours listed below.

Monday, January 15 ........................................ 6:30 AM – 12:00 PM
12:00 PM – 5:00 PM
Tuesday, January 16 ........................................ 6:30 AM – 12:00 PM
Wednesday, January 17 ............................... 6:30 AM – 12:00 PM
3:30 – 5:00 PM
Thursday, January 18 ............................... 6:30 AM – 12:00 PM
5:00 – 6:30 PM
Friday, January 19 ............................... 6:30 AM – 12:00 PM

Exhibitor Descriptions

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