

ECHO

ON THE INSIDE PASSAGE OF
ALASKA

INAUGURAL

FINAL PROGRAM

July 21–28, 2018

**Seven-Night Alaskan Cruise from
Seattle, WA**

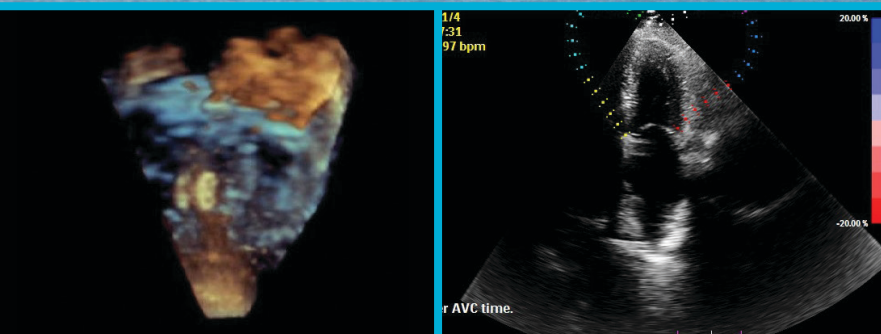
**Four Stops: Juneau, Skagway,
Ketchikan, and Victoria, B.C.**

Course Chair

Steven J. Lester, MD, FASE
Mayo Clinic
Scottsdale, AZ

Course Highlights:

- Assessment of systolic and diastolic function, quantitative Doppler, and stress echo
- Acquisition and processing of newer imaging techniques including strain and 3D imaging
- In depth review of valvular heart disease and new structural heart disease interventions



Welcome to the maiden voyage of Echo Alaska, a premier program organized by the American Society of Echocardiography.

Echo Alaska is designed to provide a practical review of the current uses of echocardiography in a relaxed and informal environment. Traditional topics in the field of echocardiography, including the assessment of systolic and diastolic function, quantitative Doppler, and stress echocardiography will be presented. In addition, there will be a focus on newer imaging acquisition and processing techniques such as strain and 3D imaging. We will have both formal discussions and workshops allowing for a detailed understanding of both the clinical and practical applications of these techniques. In keeping with the emerging field of structural heart disease and catheter-based valve interventions there will be detailed discussion on the “morphophysiolologic” aspects of valvular heart disease and what we, the echocardiographer, need to know to support these interventions.

Alaska is beautiful in the summer allowing for amazing outdoor activities. The Ruby Princess is a beautiful luxury ship. I am confident that we will have an amazing experience together learning and exploring. Welcome aboard!



Steven J. Lester, MD, FASE

*Course Chair
Mayo Clinic
Scottsdale, AZ*

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Program Information

Echo on the Inside Passage of Alaska

The Inaugural Echo on the Inside Passage of Alaska will take place on an Alaskan cruise as a new educational opportunity that differs from ASE's other courses by providing attendees with a small, intimate environment to learn from the experts.

Target Audience

Echo on the Inside Passage of Alaska's program is designed for adult and pediatric cardiologists, cardiovascular surgeons, anesthesiologists, radiologists, nurses, sonographers, and fellows in training. Participants should have a practical knowledge of echocardiography.

Learning Objectives

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

- Utilize 2D and 3D echocardiography in the assessment of mitral, aortic, and tricuspid valve disease.
- Demonstrate how to evaluate left ventricular diastolic function.
- Analyze left ventricular function with state-of-the-art echocardiographic technology including strain and 3D imaging.
- Facilitate implementation of information presented into clinical practice.

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.

Accreditation and Designation

The American Society of Echocardiography is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American Society of Echocardiography designates this live activity for a maximum of 22 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Successful completion of this CME activity enables the participant to earn up to 22 MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) and the American Board of Anesthesiology's (ABA) Maintenance of Certification in Anesthesiology (MOCA) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity.

Daily breakdown of CME credits:

Sunday, July 22, 2018 = 7.0 hours

Monday, July 23, 2018 = 2.5 hours

Wednesday, July 25, 2018 = 2.0 hours

Thursday, July 26, 2018 = 4.0 hours

Friday, July 27, 2018 = 6.5 hours

The ACCME and the European Board of Accreditation in Cardiology (EBAC) recognize each other's accreditation systems as substantially equivalent. To obtain EBAC credit for participation in this activity, submit evidence of participation directly to EBAC (www.ebac-cme.org).

The European Union of Medical Specialists (UEMS)-European Accreditation Council for Continuing Medical Education (EACCME) has an agreement of mutual recognition of continuing medical education (CME) credit with the American Medical Association (AMA). European physicians interested in converting AMA PRA Category 1 Credit[™] into European CME credit (ECMEC) should contact the UEMS (www.uems.eu).

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 7 of this program.



Maintenance of Certification in Anesthesiology Program[®] and MOCA[®] are registered certification marks of the American Board of Anesthesiology[®]. MOCA 2.0[®] is a trademark of the American Board of Anesthesiology[®].

How to Obtain CME

To claim your CME for the Inaugural Echo on the Inside Passage of Alaska, 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 **August 29, 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. This will take you directly to your ASEUniversity account.

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, “ALASKA2018”
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 number and birthdate if you choose to have MOC points for this meeting submitted to ABIM. There is a space for this information on the first page of the evaluation.



Princess® Alaska Inside Passage Cruise

Stretching from Puget Sound, Washington, through the British Columbia coast, and into the Gulf of Alaska, the Inside Passage includes more than 1,000 islands, seemingly endless shoreline, and thousands of idyllic coves and bays. These are serene waters, where one moment you can be sailing a wide bay of barrier islands and the next you are cruising through a narrow waterway flanked by towering forested walls. That's the splendid spectacle of the Inside Passage—the scenery is constantly changing, from picturesque shores to friendly coastal towns.

Cruise schedule and things to experience while on your Alaska Inside Passage Cruise:

Saturday, July 21 – Depart Seattle, Washington

- Pike Place Market
- Space Needle
- Pioneer Square
- Wine Tasting
- Boeing's Future of Flight Aviation Center
- Hiram Chittenden Locks
- International District
- Lake Union

Sunday, July 22 – At Sea

Monday, July 23 – Juneau, Alaska

- Mendenhall Glacier
- Outdoor Adventures
- Whale Watching
- Glacier Flightseeing
- Macaulay Salmon Hatchery
- Glacier Gardens
- Dog Sledding
- Mount Roberts Tramway

Tuesday, July 24 – Skagway, Alaska

- White Pass & Yukon Route Railroad
- Outdoor Adventures
- Klondike Summit
- Gold Rush History
- Yukon (Canada)
- Haines
- Red Onion Saloon
- Dog Sledding

Wednesday, July 25 – Glacier Bay National Park (Scenic Cruising)

Thursday, July 26 – Ketchikan, Alaska

- Outdoor Adventures
- Totem Bight State Park
- Saxman Native Village
- Alaska Rainforest Sanctuary
- Misty Fjords National Monument
- Great Alaskan Lumberjack Show
- George Inlet Lodge
- Creek Street

Friday, July 27 – Victoria, British Columbia

- Butchart Gardens
- Legislative Buildings
- Fairmont Empress Hotel
- Beacon Hill Park
- Victoria Butterfly Gardens
- Craigdarroch Castle
- Victoria Pubs
- Whale Watching

Saturday, July 28 – Arrive back in Seattle, Washington

Onboard Experience

- Movies Under the Stars®
- The Sanctuary (Adults-only retreat)
- Lotus Spa® & Fitness Center
- Casino gaming
- Top-headliner comedians
- Broadway-style production shows
- Alaska Enrichment programs
- Freshly prepared cuisine

For more information and itinerary highlights, please visit princess.com/learn/cruise-destinations/alaska-cruises/roundtrip/seattle/index.jsp. Please note that all shore excursions are at your own expense.

Schedule of Events

SUNDAY, JULY 22, 2018

Fiesta Deck 6 Conference Center

7:00 AM	Registration
7:45 AM	Welcome and Course Introduction <i>S. Lester</i>

AORTIC VALVE DISEASE

Moderator: S. Lester

8:00 AM	Echocardiographic Evaluation of Aortic Stenosis Severity <i>W. Zoghbi</i>
8:30 AM	Aortic Stenosis: How to Define Severity When There is Area Gradient Mismatch <i>S. Lester</i>
9:00 AM	TAVR: What Does the Imager Need to Know Pre-Implant, During Implant, and Post-Implant <i>S. Mankad</i>
9:30 AM	Aortic Regurgitation: Get with the Guidelines <i>T. Binder</i>

10:00 AM **Break**

MITRAL VALVE DISEASE

Moderator: S. Lester

10:15 AM	Echocardiographic Evaluation of Mitral Regurgitation: How to Characterize Both the “Anatomy” and Severity of Regurgitation <i>W. Zoghbi</i>
10:45 AM	Percutaneous Options to Treat Mitral Regurgitation: What Does the Imager Need to Know? <i>S. Mankad</i>

TRICUSPID REGURGITATION

Moderator: S. Lester

11:30 AM	No Longer the Forgotten Valve: How to Characterize Both the “Anatomy” and Severity of Regurgitation <i>S. Lester</i>
12:00 PM	Let’s Better Understand the New Frontier for Percutaneous Intervention <i>V. Rigolin</i>

12:30 PM **Lunch Break**

PROSTHETIC VALVES

Moderator: V. Rigolin

2:00 PM	Evaluation of Aortic Valve Prostheses: A Case-based Approach <i>V. Rigolin</i>
2:30 PM	Evaluation of Mitral Valve Prostheses: A Case-based Approach <i>T. Binder</i>
3:00 PM	Endocarditis: Evaluation and Management <i>R. Mankad</i>
3:30 PM	Break
3:45 PM	Read with the Experts: Review Interesting and Complex Valve Disease Cases <i>T. Binder, S. Lester, R. Mankad, V. Rigolin, W. Zoghbi</i>
5:00 PM	Adjourn

MONDAY, JULY 23, 2018

READ WITH THE EXPERTS: INTERESTING CASES INCLUDING CASES WHERE 3D IMAGES MADE A DIFFERENCE

Moderator: S. Mankad

8:00 AM	<i>T. Binder, S. Lester, R. Mankad, S. Mankad, V. Rigolin, W. Zoghbi</i>
10:30 AM	Adjourn

WEDNESDAY, JULY 25, 2018

DIASTOLOGY 101

Moderator: S. Lester

4:00 PM	Echocardiographic Evaluation of Diastolic Function <i>S. Lester</i>
4:30 PM	Pericardial Disease: Constriction and Tamponade <i>R. Mankad</i>
5:00 PM	Diastology: Cases and Practice Review <i>S. Lester</i>
6:00 PM	Adjourn



Schedule of Events

THURSDAY, JULY 26, 2018

LEFT VENTRICLE

Moderator: *T. Binder*

1:00 PM	How Should I Evaluate and Report Left Ventricle Size and Function? <i>T. Binder</i>
1:30 PM	Myocardial (Strain) Imaging: What Is This? Research Tool or Real Clinical Application? <i>S. Lester</i>
2:00 PM	3D Evaluation of Left Ventricular Volume and Ejection Fraction: Show Me How to Do This? <i>T. Binder</i>
2:30 PM	Contrast Echocardiography: What, When, and How to Use Ultrasonic Enhancing Agents? <i>V. Rigolin</i>
3:00 PM	Break

RIGHT VENTRICLE

Moderator: *R. Mankad*

3:30 PM	How Should I Evaluate and Report Right Ventricle Size and Function? <i>R. Mankad</i>
4:00 PM	Right Heart Hemodynamics: Echocardiographic Evaluation of Right Heart Hemodynamics <i>S. Mankad</i>
4:30 PM	Read with the Experts: Interesting and Complex Cases <i>R. Mankad, S. Mankad, V. Rigolin</i>
5:30 PM	Adjourn



FRIDAY, JULY 27, 2018

STRESS ECHOCARDIOGRAPHY

Moderator: *R. Mankad*

8:00 AM	Indications and Interpretation <i>W. Zoghbi</i>
8:30 AM	Beyond Coronary Artery Disease <i>V. Rigolin</i>
9:00 AM	Read with the Experts: Case Examples in Stress Echocardiography <i>V. Rigolin, W. Zoghbi</i>
9:30 AM	Strain: How to Acquire and Measure Strain <i>T. Binder, S. Mankad</i>
10:30 AM	Break

CARDIOMYOPATHIES AND SYSTEMIC DISEASE

Moderator: *S. Lester*

11:00 AM	Hypertrophic Cardiomyopathy: Evaluation and Management <i>W. Zoghbi</i>
11:30 AM	Hypertrophic Cardiomyopathy or Phenocopy? The Walls of the Left Ventricle are Thick. Why? <i>S. Lester</i>
12:00 PM	Echocardiography in Systemic Disease <i>S. Mankad</i>
12:30 PM	Lunch Break

ECHO EMERGENCIES

Moderator: *V. Rigolin*

2:00 PM	Acute Aortic Syndromes <i>V. Rigolin</i>
2:30 PM	Complications of Myocardial Infarction <i>R. Mankad</i>
3:00 PM	Break

ECHO POTPOURRI

Moderator: *V. Rigolin*

3:30 PM	Watchman Device: For Whom and What Does the Imager Need to Know? <i>S. Mankad</i>
4:00 PM	LVADs: Basic Approach to Imaging and What to Report <i>T. Binder</i>
4:30 PM	Imaging For Cardiovascular Risk Prediction <i>S. Lester</i>
5:00 PM	Adjourn

Faculty Disclosures

The following faculty members do not have any relationships with industry/commercial supporters to disclose:

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2018 Industry Roundtable Partners.



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