ROCKY XXVII
Rocky Mountain Valve Symposium

THE FUTURE OF MITRAL VALVE THERAPIES

JULY 20-21 2017
Missoula, MT

register at: rockymountainvalvesymposium.org

THE INTERNATIONAL HEART INSTITUTE OF MONTANA
The Future of Mitral Valve Therapies

Thursday, July 20

7:15  WELCOME  Stewart Long, MD
7:20  Point/Counter Point: Is Mitral Valve Surgery History?  Drs. Burkhard Mackensen, Thomas Gleason

SESSION I: MITRAL VALVE IMAGING:

7:45  State of the Art Echo Imaging of the Mitral Valve  Burkhard Mackensen, MD, PhD
8:15  CT Imaging and 3D Printing of the Mitral Valve  Dee Dee Wang, MD
8:45  Key Aspects of Cardiac MRI  Amit Patel, MD
9:15  Panel Discussion: 2D Echo, 3D Echo, 3D Printing, MRI: Where are the Synergies?  Faculty

9:45  BREAK

SESSION 2: MITRAL VALVE REPAIR CONCEPTS:

10:15  Approach to Abnormal Leaflet/Chordal Pathology  Leland Siwek, MD
10:45  Approaches to the Subvalvular Apparatus: Neo-chordae and Zones of Coaptation  Ottavio Alfieri, MD
11:15  What Constitutes a Successful Repair: Goals of a 2nd Pump Run  Thomas Gleason, MD
11:45  Functional Mitral Regurgitation: A Surgeon’s View  Gorav Ailawadi, MD

12:15  LUNCH

SESSION 3: MITRAL VALVE DIRTY LITTLE SECRETS:

1:30  Why Repairs Fail: Is Redo Re-repair a Thing?  Robert L. Smith, MD
2:00  AV Groove Separation; Dangers of Mitral Valve Calcium  Kevin Greason, MD

2:30  BREAK

SESSION 4: HANDS ON LAB AND WORKSHOP

3:00  Wet Lab & Workshop:
1. Leaflet and Annuloplasty Approaches  Drs. Ottavio Alfieri, Gorav Ailawadi
2. 3D Echocardiography Workshop  Drs. Bruce Bollen, Burkhard Mackensen, Feroze Mahmood

5:00  ADJOURN
## SESSION 5: ISCHEMIC MITRAL REGURGITATION: WHAT TO DO AND WHEN TO DO IT

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<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>7:30</td>
<td>The Left Ventricle and Mitral Regurgitation: Role of the LV in MR</td>
<td>Dee Dee Wang, MD</td>
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<tr>
<td>8:00</td>
<td>Results of Medical Management</td>
<td>David Rubenson, MD</td>
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<td>8:30</td>
<td>The Role of Surgery: Repair, Replace, Ignore</td>
<td>Gorav Ailawadi, MD</td>
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### BREAK

### SESSION 6: PERCUTANEOUS APPROACH TO MITRAL VALVE:

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>10:00</td>
<td>Present and Future State of Percutaneous Mitral Therapy</td>
<td>William O’Neill, MD</td>
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<td>10:20</td>
<td>Percutaneous Mitral Annuloplasty</td>
<td>Steven Goldberg, MD</td>
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<td>10:40</td>
<td>Percutaneous Valve in Valve/Ring</td>
<td>John Messenger, MD</td>
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<td>11:00</td>
<td>Percutaneous Valve in Native With and Without MAC</td>
<td>Robert L. Smith, MD</td>
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<td>11:30</td>
<td><strong>Duran Lecture: The Evolution of Novel Approaches to the Mitral Valve:</strong> How Has This Come About?</td>
<td>Ottavio Alfieri, MD</td>
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### BREAK

### SESSION 7: TRICUSPID VALVE INSUFFICIENCY:

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<thead>
<tr>
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<tbody>
<tr>
<td>1:15</td>
<td>Assessment of RV Function</td>
<td>Feroze Mahmood, MD</td>
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<td>1:45</td>
<td>Tricuspid Insufficiency: Repair, Replace, Ignore</td>
<td>Gene Parrino, MD</td>
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<td>2:15</td>
<td>Percutaneous Approaches to the Tricuspid Valve: Scout, Sapien, IVC, MitraClip</td>
<td>Burkhard Mackensen, MD, PhD</td>
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<td>2:30</td>
<td><strong>Panel Discussion:</strong> Perfect Surgical Tricuspid Replacement: Pacing, Exposure, Valve Choice and Placement</td>
<td>Faculty</td>
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### BREAK

### SESSION 8: HANDS ON LAB AND WORKSHOP

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<th>Speakers</th>
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<tr>
<td>3:15</td>
<td><strong>Wet Lab &amp; Workshop:</strong></td>
<td>Drs. Thomas Gleason, Robert L. Smith</td>
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<td></td>
<td>1. Surgical Lab: Neo-chords</td>
<td>Drs. Bruce Bollen, Burkhard Mackensen, Feroze Mahmood</td>
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<td>2. 3D Echocardiography Workshop</td>
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### ADJOURN
Great Location!

Legend
- Trail
- Road
- Park

St. Patrick Hospital
Rocky Mtn Valve Symposium

Holiday Inn Parkside

DoubleTree

Footbridge

Jacobs Island

'M' trailhead

University of Montana

Fifth Street

John Toole Park

River Bowl

Arthur Avenue

Beckwith Avenue

Legend

N E W S
FACULTY

PROGRAM DIRECTORS
Stewart Long, MD
G. Burkhard Mackensen, MD, PhD
Tod Maddux, MD

CARDIAC SURGERY
Gorav Ailawadi, MD
University of Virginia
Ottavio Alfieri, MD
Ospedale San Raffaele
Thomas Gleason, MD
University of Pittsburgh
Kevin Greason, MD
Mayo Clinic
Stewart Long, MD
International Heart Institute
Gene Parrino, MD
Ochsner Clinic
Leland Siwek, MD
Sacred Heart Spokane
Robert L. Smith, MD
Heart Hospital Baylor Plano

CARDIOLOGY
Steven Goldberg, MD
Tyler Heart Institute
Alex Jehle, MD
International Heart Institute
Tod Maddux, MD
International Heart Institute
John Messenger, MD
University of Colorado
William O’Neill, MD
Henry Ford Hospital
Amit Patel, MD
University of Chicago
Michael Reed, MD
International Heart Institute
David Rubenson, MD
Scripps Clinic
Daniel Spoon, MD
International Heart Institute
Dee Dee Wang, MD
Henry Ford Hospital

CARDIAC ANESTHESIOLOGY
Bruce Bollen, MD
Missoula Anesthesiology
G. Burkhard Mackensen, MD, PhD
University of Washington
Feroze Mahmood, MD
Beth Israel Deaconess Medical Center

PROGRAM OVERVIEW

COURSE DESCRIPTION
This is the twenty-seventh in a series of symposia sponsored by the International Heart Institute of Montana Foundation. The two (2) day conference will address surgical techniques, imaging, minimally invasive approaches, and interventional therapies in complex mitral valve disease management. An interactive didactic lecture format will be utilized in combination with case studies, panel discussions and debates.

The course is designed to engage participants in discussions, debates and potential controversies combined with practical hands-on workshop sessions demonstrating mitral valve repair and imaging techniques.

This course is intended for cardiac surgeons, interventional cardiologists, echo-cardiologists, anesthesiologists, internists, nurses, physician assistants and all health care professionals involved in the evaluation, diagnosis and/or management of patients with mitral valve disease.

COURSE OBJECTIVES
Upon completion of this activity, attendees should be able to:
• Discuss the issues and limitations in the evaluation and treatment of mitral valve disease.
• Evaluate the usefulness and limitations of advanced imaging techniques in assessing and treating mitral valve disease.
• Describe surgical repair techniques of mitral valve disease.
• Discuss percutaneous intervention therapy in the treatment of mitral valve disease.
• Discuss controversial issues, emerging techniques and future directions.
• Demonstrate advanced mitral valve repair techniques utilizing an isolated porcine heart.
• Demonstrate the application of advanced imaging techniques in an imaging station.

CME ACCREDITATION
The International Heart Institute of Montana Foundation is affiliated with the University of Washington School of Medicine.

The University of Washington School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Washington School of Medicine designates this live activity for a maximum of 15.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
LOCATION
The Symposium is held at the Broadway Conference Center at Providence St. Patrick Hospital in Missoula, Montana. The conference center is within walking distance of the main conference hotel and downtown Missoula.

REGISTRATION
SPACE IS LIMITED, REGISTER EARLY!
Included: course tuition, breakfasts, breaks, lunches, shuttle transportation to and from the airport, and digital course materials via the website. Not Included: Travel Costs & Lodging.

Physician ........................ $795
Fellow ............................ $395
Resident ........................ $395
Nurse ......................... $395
Industry Professional ..... $795

REFUNDS
All cancellations must be submitted in writing and refunds are subject to a $100 administrative charge. Cancellations will not be accepted over the phone. No refunds will be given after Tuesday, July 18, 2017.

HOTEL RESERVATIONS
The main conference hotel is the Doubletree Hotel Edgewater in Missoula, which offers a special Symposium rate. Reservations must be made directly with the hotel online at rockymountainvalvesymposium.org or call (406) 728-3100. Please state that you are attending The Rocky Symposium. The hotel room block is scheduled to be held until Wednesday July 5, 2017.

PAYMENT
Registration fees may be paid by credit card using Visa, Master Card or American Express. Fees may also be paid by check, payable to IHIMF in US dollars drawn on a US bank. Your credit card will be charged when received. You will receive e-mail or written confirmation of your payment.

TRANSPORTATION
The conference hotel provides shuttle service to and from the airport. We provide transportation to and from the hotel and symposium activities daily.

SOCIAL EVENT
The following event has been arranged for participants and their companions:

Welcome Reception and Registration
Wednesday, July 19, 2017 6:00-9:00 p.m. at The Doubletree Hotel Edgewater, Missoula, Montana

Rocky Mountain Valve Symposium XXVII
Missoula, Montana July 20-21, 2017
(406) 329-2676 - rocky@ihimontana.org

Register Online rockymountainvalvesymposium.org

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<th>PHYSICIAN/ INDUSTRY</th>
<th>$795</th>
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<tr>
<td>RESIDENT/ FELLOW/ NURSE</td>
<td>$395</td>
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Last Name: ___________________________  First Name: ___________________________
Institution: ___________________________  Title: ___________________________
Business Address: ___________________________  Specialty: ___________________________
Phone: ___________________________  City/State/Zip: ___________________________
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Fax: ___________________________

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Card #: ___________________________
Expiration Date: ___________________________
Visa / Mastercard / American Express

Please fax form to (406) 542-3235 or mail to: IHIMF, 500 W. Broadway, Suite 350, Missoula, MT 59802
“Fantastic Conference – Excellent Faculty and Presentations, all lectures were high standard”
- 2016 Attendee