— 22ND ANNUAL —
CARDIOVASCULAR CONFERENCE

February 10-13, 2013
America’s Premier Meeting on Innovations in Cardiovascular Medicine

PARK HYATT BEAVER CREEK
BEAVER CREEK, CO

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Beaumont® HEALTH SYSTEM

in collaboration with
Duke University School of Medicine
University of Colorado School of Medicine

CLICK TO REGISTER:
http://heart.beaumont.edu/classes-and-events
INTRODUCTION

We are delighted to invite you to the 22nd Annual Cardiovascular Conference at Beaver Creek, Colorado! This course is designed to provide you with a comprehensive review of the latest advances and breakthroughs in cardiovascular medicine. New to the program this year is a special emphasis on case-based learning with national leaders in the field addressing challenges in the diagnosis and management of common cardiovascular conditions such as heart failure, atrial fibrillation and valve disease. The course will also feature focus sessions on Hypertension, Innovations and Healthcare Reform, and the 6th annual EP @BC designed for electrophysiologists and clinicians with an interest in heart rhythm management.

OBJECTIVES

By attending this conference, attendees should improve their ability to:

- Discuss the role of patent foramen ovale in stroke and migraine
- Describe the current role of transcatheter therapy in aortic stenosis
- Review current strategies in evaluation and management of diastolic heart failure
- Discuss new recommendations for the management of systemic hypertension
- Discuss how to manage a patient with lone atrial fibrillation
- Summarize new advances in the management of pulmonary embolism
- Describe when to intervene in a patient with mitral regurgitation
- Discuss the role of circulatory support in cardiogenic shock

FELLOWS PROGRAM - CALL FOR CASES

We invite fellows to submit interesting or unique cases for the “Nightmares in the Cath Lab” session. Cases requiring strategic planning, complex anatomic cases, or unusual complications will be considered.

Submit cases in PowerPoint format with no more than 10 slides and without movies to jtrivax@beaumont.edu by December 7, 2012 at 12:00pm EST. Late submissions will not be accepted.
**COURSE DIRECTORS**

Simon R. Dixon, MBChB  
Chair, Cardiovascular Medicine  
Beaumont Health System, Royal Oak, MI  
Professor of Medicine, Oakland University  
William Beaumont (OUWB) School of Medicine  

Christopher B. Granger, M.D.  
Professor of Medicine  
Director, Cardiac Care Unit  
Duke Clinical Research Institute  
Durham, NC  

John Messenger, M.D.  
Associate Professor of Medicine  
Director, Cardiac Catheterization Labs  
Division of Cardiology  
University of Colorado School of Medicine  
Aurora, CO  

**COURSE CO-DIRECTORS**

John D. Carroll, M.D.  
Professor of Medicine  
Director, Interventional Cardiology  
Co-Director, Cardiac and Vascular Center  
Division of Cardiology  
University of Colorado School of Medicine  
Aurora, CO  

Bernard J. Gersh, MBChB, Dphil  
Professor of Medicine  
Consultant, Division of Cardiovascular Diseases  
Mayo Clinic  
Rochester, MN  

Renato G. Ramos, M.D.  
Emeritus Director, Cardiac Catheterization Laboratories  
Beaumont Hospital, Royal Oak, MI  
Assistant Professor of Medicine  
OUWB School of Medicine  

**FACULTY**

Amr E. Abbas, M.D.  
Interventional Cardiologist  
Director, Interventional Cardiology Research  
Co-Director, Echocardiography Laboratory  
Beaumont Hospital, Royal Oak, MI  
Associate Professor of Medicine  
OUWB School of Medicine  

Larry A. Allen, M.D., MHS  
Assistant Professor of Medicine  
Heart Failure/Cardiac Transplantation  
Division of Cardiology  
University of Colorado School of Medicine  
Aurora, CO  

Steven L. Almany, M.D.  
Director, Anticoagulation Management Service  
Beaumont Health System, Royal Oak, MI  
Associate Professor of Medicine  
OUWB School of Medicine  

Terry R. Bowers, M.D.  
Director, Vascular Medicine  
Beaumont Hospital, Royal Oak, MI  
Assistant Professor of Medicine  
OUWB School of Medicine  

Robert M. Califf, M.D.  
Vice Chancellor for Clinical Research  
Duke University Medical Center  
Director, Duke Translational Medicine Institute  
Durham, NC  

Joseph C. Cleveland, Jr., M.D.  
Professor of Surgery  
Surgical Director, Cardiac Transplantation/ Mechanical Support  
Division of Cardiothoracic Surgery  
University of Colorado School of Medicine  
Aurora, CO  

Robert Eckel, M.D.  
Professor of Medicine  
Division of Endocrinology, Diabetes and Metabolism  
Division of Cardiology  
University of Colorado School of Medicine  
Aurora, CO  

Barry A. Franklin, PhD  
Director, Preventive Cardiology and Rehabilitation  
Beaumont Hospital, Royal Oak, MI  
Professor of Medicine, OUWB School of Medicine  

Michael J. Gallagher, M.D.  
Director, Advanced Cardiac Imaging  
Associate Director, Clinical Cardiology Fellowship Program  
Beaumont Health System, Royal Oak, MI  
Associate Professor of Medicine  
OUWB School of Medicine  

Michael J. Gold, M.D.  
Chief of Cardiology  
Michael E. Assey Professor of Medicine  
Medical University of South Carolina  
Charleston, SC  

Rajan Gupta, M.D.  
Assistant Professor of Radiology  
Interventional Radiology/Neurointervention  
Division of Interventional Radiology  
University of Colorado School of Medicine  
Aurora, CO  

David E. Haines, M.D.  
Director, Heart Rhythm Center  
Beaumont Hospital, Royal Oak, MI  
Professor of Medicine, OUWB School of Medicine  

George S. Hanzel, M.D.  
Director, Catheterization Laboratory  
Director, Valvular & Congenital Heart Disease  
Beaumont Hospital, Royal Oak, MI  
Associate Professor of Medicine  
OUWB School of Medicine  

Adrian F. Hernandez, M.D.  
Associate Faculty Director  
Health Services Research  
Associate Professor of Medicine  
Duke University School of Medicine  
Durham, NC  

James G. Jollis, M.D.  
Professor of Medicine and Radiology  
Duke University School of Medicine  
Durham, NC  

William H. Kuchman  
Senior Advisor  
Boston Scientific Corporation  
Natick, MA  

Graham Long, M.D.  
Vascular Surgeon  
Director of Surgical Clinical Trials  
Beaumont Health System, Royal Oak, MI  
Associate Professor of Surgery  
OUWB School of Medicine  

Clive A. Meanwell, M.D., PhD  
Chairman and Chief Executive Officer  
The Medicines Company  
New York, NY  

Peter A. McCullough, M.D., MPH  
Consultant Cardiologist  
Chief Academic and Scientific Officer  
St. John Providence Health System  
Providencia Park Health Institute  
Novi, MI  

E. Magnus Ohman, M.D.  
Professor of Medicine  
Associate Director, Duke Heart Center  
Duke University Medical Center  
Durham, NC  

Andrea Natale, M.D., FACC, FHRS, FESC  
Executive Medical Director  
Texas Cardiac Arrhythmia Institute  
St. David’s Medical Center  
Austin, TX  

Eric D. Peterson, M.D.  
Professor of Medicine  
Division of Cardiology  
Duke University Medical Center  
Durham, NC  

R. Kevin Rogers, M.D.  
Assistant Professor of Medicine  
Interventional Cardiology/Vascular Medicine  
Division of Cardiology  
University of Colorado School of Medicine  
Aurora, CO  

John S. Rumsfeld, M.D., PhD  
Professor of Medicine  
National Director, Cardiology  
Veteran’s Health Administration  
Division of Cardiology  
University of Colorado School of Medicine  
Denver, CO  

Charles Simonton, M.D.  
Chief Medical Officer  
Cardiac Therapies Group  
Abbott Vascular  
Santa Clara, CA  

Bruce Wilkoff, M.D.  
Director of Cardiac Pacing and Tachyarrhythmia Devices  
Associate Section Head of the Pacing and Electrophysiology  
Cleveland Clinic  
Cleveland, OH  

James E. Tcheng, M.D.  
Professor of Medicine  
Division of Cardiology  
Duke University Medical Center  
Durham, NC  

Thomson Tsai, M.D., MSc  
Assistant Professor of Medicine  
Director, Interventional Cardiology  
Denver Veteran’s Administration Hospital  
University of Colorado School of Medicine  
Denver, CO
### SCHEDULE OF EVENTS

#### SATURDAY, FEBRUARY 9
- **16:00-18:00** Welcome Reception

#### SUNDAY, FEBRUARY 10
- **07:00-09:30** PLENARY SESSION
  - Moderator: Bernard Gersh, MBChB, Dphil
  - **07:00 – 07:05** Welcome
    - Renato Ramos, M.D.
  - **07:05 – 07:30** State-of-the-Art: Controversies Around PFO Closure
    - John Carroll, M.D.
  - **07:30 – 07:55** The Epidemic of Cardiovascular Disease in the Developing World
    - Bernard Gersh, MBChB, Dphil
  - **07:55 – 08:20** Case: Transcatheter Therapy for Aortic Stenosis: Lessons Learned & Future Directions
    - George Hanzel, M.D.
  - **08:20 – 08:45** Case: Completeness of Revascularization. Does it Matter?
    - Magnus Ohman, M.D.
  - **08:45 – 09:15** Debate: For AF Patients Stable on Warfarin: There is No Need to Switch to a Novel Agent
    - Pro: Stick with Warfarin
      - Christopher Granger, M.D.
    - Con: You Should Switch
      - David Haines, M.D.
  - **09:15 – 09:45** Break and Exhibits
  - **09:45 – 11:30** FOCUS SESSION: SYSTEMIC HYPERTENSION
    - Moderator: Eric Peterson, M.D.
    - **09:45 – 10:10** The Hypertension Epidemic: Are We Any Further Ahead?
      - Peter McCullough, M.D.
    - **10:10 – 10:35** New Recommendations in Hypertension: Digesting the JNC-8 Update
      - Eric Peterson, M.D.
    - **10:35 – 11:00** Is There Still a Role for Renal Artery Stenting?
      - Terry Bowers, M.D.
    - **11:00 – 11:30** Debate: Interventional Therapy for Hypertension
      - Pro: Ready for Primetime
        - James Jollis, M.D.
      - Con: Wait! Not Enough Data...
        - Steven Almany, M.D.
    - **11:30 – 13:00** Lunch
  - **13:00 – 15:30** FOCUS SESSION: INDUSTRY, INNOVATION AND HEALTHCARE REFORM
    - Moderator: Robert Califf, M.D.
    - **13:00 – 13:20** Healthcare in the New Administration
      - Robert Califf, M.D.
    - **13:20 – 13:40** How Should We Evaluate the Cost Effectiveness of New Technologies?
      - Hank Kucheman
    - **13:40 – 14:00** Pull Up Your Pants and Make a Difference: Physicians as System Leaders
      - Clive Meanwell, M.D., PhD

#### MONDAY, FEBRUARY 11
- **07:00 – 09:30** 6TH ANNUAL EP @BC
  - Moderator: David Haines, M.D.
  - **07:00 – 07:25** Anti-Arrhythmic Effects of Non-Anti-Arrhythmic Drugs
    - David Haines, M.D.
  - **07:25 – 07:50** What is the Contribution of AF to Cryptogenic Stroke and Dementia?
    - Andrea Natale, M.D.
  - **07:50 – 08:15** Clinical Approach to Atrial Flutters
    - Michael Gold, M.D.
  - **08:15 – 08:40** Mega Database Insights From Remote Monitoring of ICDs
    - Bruce Wilkoff, M.D.
  - **08:40 – 09:05** Besides Patients with Wide LBBBs and CHF, Who Should get a CRT Device?
    - Michael Gold, M.D.
  - **09:05 – 09:30** New Approaches in Ablation for VT
    - Andrea Natale, M.D.
  - **09:30 – 10:00** Break and Exhibits
  - **07:30 – 09:30** FELLOWS PROGRAM: NIGHTMARE COMPLICATIONS IN THE CATH LAB
    - Moderators: Justin Trivax, M.D. and Panel
    - **07:30 – 07:50** Case 1
      - Fellow
    - **07:50 – 08:10** Case 2
      - Fellow
    - **08:10 – 08:30** Case 3
      - Fellow
## SCHEDULE OF EVENTS

### MONDAY, FEBRUARY 11 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 08:50</td>
<td>Case 4 Fellow</td>
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<tr>
<td>08:50 - 09:10</td>
<td>Case 5 Fellow</td>
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<tr>
<td>09:10 - 09:30</td>
<td>Case 6 Fellow</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Break and Exhibits</td>
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<tr>
<td>10:00 - 11:30</td>
<td>MEET THE EXPERTS: ECG AND EP CASES</td>
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<tr>
<td></td>
<td>Moderators: David Haines, M.D. and Panel</td>
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<tr>
<td></td>
<td>Case review with panel</td>
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<tr>
<td>11:30 - 13:00</td>
<td>Lunch</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Break and Exhibits</td>
</tr>
<tr>
<td>16:00 - 18:00</td>
<td>ACUTE MI AND CARDIOGENIC SHOCK</td>
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<tr>
<td></td>
<td>Moderator: Simon Dixon, MBChB</td>
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<tr>
<td>16:00 - 16:25</td>
<td>State-of-the-Art: Innovations in STEMI Care</td>
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<td></td>
<td>Christopher Granger, M.D.</td>
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<tr>
<td>16:25 - 16:50</td>
<td>Case: What is the Ideal Approach for Early Anterior MI at a Non-PCI Center?</td>
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<td></td>
<td>John Messenger, M.D. and Panel</td>
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<tr>
<td>16:50 - 17:15</td>
<td>Case: Anti-Platelet Therapy Before and After STEMI Intervention</td>
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<tr>
<td></td>
<td>James Tcheng, M.D. and Panel</td>
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<tr>
<td>17:15 - 17:40</td>
<td>Case: Cardiogenic Shock: What is the Role of Drugs and Circulatory Support?</td>
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<tr>
<td></td>
<td>Magnus Ohman, M.D. and Panel</td>
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<tr>
<td>17:40 - 18:00</td>
<td>Case: Approach with Multivessel Disease</td>
</tr>
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<td></td>
<td>Simon Dixon, MBChB and Panel</td>
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<tr>
<td>18:00 - 19:00</td>
<td>IMAGING WORKSHOP: 3D-ECHOCARDIOGRAPHY</td>
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<tr>
<td></td>
<td>Moderator: Michael Gallagher, M.D.</td>
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<tr>
<td>18:00 - 19:00</td>
<td>IMPELLA WORKSHOP: CIRCULATORY SUPPORT IN PCI</td>
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<td>Moderator: George Hanzel, M.D.</td>
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</tbody>
</table>

### TUESDAY, FEBRUARY 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>06:30 - 07:30</td>
<td>Registration, Continental Breakfast and Exhibits</td>
</tr>
<tr>
<td>07:00 – 09:30</td>
<td>ADVANCES IN HEART FAILURE</td>
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<tr>
<td></td>
<td>Moderator: Larry Allen, M.D.</td>
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<tr>
<td>07:00 - 07:25</td>
<td>State-of-the-Art: Advances in the Management of Acute Decompensated Heart Failure</td>
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<td></td>
<td>Robert Califf, M.D.</td>
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<tr>
<td>07:25 - 07:50</td>
<td>Case: Rehospitalization: Challenges, Frustrations and Uncertainties</td>
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<td></td>
<td>Adrian Hernandez, M.D.</td>
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<tr>
<td>07:50 - 08:15</td>
<td>Case: HF with Preserved EF: Is this Really a Benign Entity?</td>
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<td></td>
<td>Larry Allen, M.D.</td>
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<tr>
<td>08:15 - 08:40</td>
<td>Case: Myocardial Viability Assessment in Cardiomyopathy</td>
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<td></td>
<td>Michael Gallagher, M.D.</td>
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<tr>
<td>08:40 - 09:05</td>
<td>Case: Selection for Mechanical Support</td>
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<td></td>
<td>Joseph Cleveland, M.D.</td>
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<tr>
<td>09:05 - 09:30</td>
<td>Q &amp; A</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Break</td>
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<tr>
<td>10:00 - 11:30</td>
<td>FOCUS SESSION: VASCULAR DISEASE AND INTERVENTIONS</td>
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<td>Moderator: Terry Bowers, M.D.</td>
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</tbody>
</table>

### WEDNESDAY, FEBRUARY 13

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>06:30 - 07:30</td>
<td>Registration, Continental Breakfast and Exhibits</td>
</tr>
<tr>
<td>07:00 – 09:30</td>
<td>VALVE AND STRUCTURAL HEART DISEASE SUMMIT</td>
</tr>
<tr>
<td></td>
<td>Moderator: George Hanzel, M.D.</td>
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<tr>
<td>07:00 - 07:25</td>
<td>State-of-the-Art: Management of Hypertrophic Cardiomyopathy</td>
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<td></td>
<td>Bernard Gersh, MBChB and Dphil</td>
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<tr>
<td>07:25 - 07:50</td>
<td>Case: Diagnosis and Management of Low Gradient Aortic Stenosis</td>
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<td></td>
<td>Michael Gallagher, M.D.</td>
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<tr>
<td>07:50 - 08:15</td>
<td>Case: Patient-Prosthetic Mismatch: Is it Really a Problem?</td>
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<tr>
<td></td>
<td>Adrian Hernandez, M.D.</td>
</tr>
<tr>
<td>08:15 - 08:40</td>
<td>Case: How to Approach Functional Mitral Regurgitation</td>
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<td></td>
<td>John Carroll, M.D.</td>
</tr>
<tr>
<td>08:40 - 09:05</td>
<td>Case: Left Atrial Appendage Occlusion: Which Device for Which Patient?</td>
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<tr>
<td></td>
<td>George Hanzel, M.D.</td>
</tr>
<tr>
<td>09:05 - 09:30</td>
<td>New Technologies in the Pipeline</td>
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<td></td>
<td>Steven Almany, M.D.</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Conclusion</td>
</tr>
</tbody>
</table>

CME CREDITS SUBJECT TO CHANGE.
ACCOMMODATIONS

HOST HOTEL
The Park Hyatt Beaver Creek is located next door to Gerald R. Ford Hall and is the host hotel for the conference. The Park Hyatt’s location at the base of the mountain, ski-in/ski-out convenience, along with unparalleled attention to detail, service and comfort make it an excellent choice.

RESERVE YOUR SLEEPING ROOM NOW ON OR BEFORE DECEMBER 7, 2012 AT THE EARLY BIRD GROUP RATE OF $429 + tax.

<table>
<thead>
<tr>
<th>Occupancy</th>
<th>On or Before 12/7/2013</th>
<th>After 12/7/2013</th>
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</thead>
<tbody>
<tr>
<td>Single/Double/King</td>
<td>$429 + tax</td>
<td>$449 + tax</td>
</tr>
</tbody>
</table>

After December 7th, group rates are $449 + tax. The group rate is on a first-come, first-served, based on availability. Reserve your room at the Park Hyatt by calling 1-970-949-1234. Identify yourself as being with 22nd Annual Cardiovascular Conference.

To reserve online, please visit https://resweb.passkey.com/go/22ndCardioConf

ROOM UPGRADES are available for an additional cost.

Reservation cut-off is January 10, 2013.

Check in: 4:00 p.m.
Check out: 12:00 p.m.

TRANSPORTATION

AIRPORT SHUTTLE
Colorado Mountain Express offers a scheduled transfer service 7 days a week from the Denver International Airport and Vail/ Eagle Airport to Beaver Creek. For reservations call 1-800-525-6363 or log on to www.ridecme.com. Be sure to use group code BEAUMONT for discounted rates.

LIFT TICKET AND RENTAL INFORMATION
Discounted Lift tickets will be valid February 8 - 17, 2013 and can be used at Beaver Creek (including Bachelor Gulch and Arrowhead), Vail, Keystone, Breckenridge and Arapahoe Basin. Deadline to pre-order discount lift tickets is Friday, January 18. Lift tickets can be purchased online when registering for the conference or you may download the form and fax the completed form to 248-898-9075.

ADDITIONAL INFORMATION
For information on attractions and the local area, please visit www.beavercreek.snow.com.

» CLICK TO REGISTER:
http://heart.beaumont.edu/classes-and-events

REGISTRATION INFORMATION

Registering for the 22nd Annual Cardiovascular Conference is easy. You may register online until February 1, 2013, by fax or phone. Only registrations with payment will be processed.

Internet:  http://heart.beaumont.edu/classes-and-events
Fax: 1-248-898-9075
Phone: 1-800-732-6368

Pre-registration rates are available until January 4, 2013. Online registration closes on February 1, 2013. After 2/1/13, please register on site at the Gerald R. Ford Hall.

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>On or before 1/4/13</th>
<th>After 1/4/13</th>
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<tbody>
<tr>
<td>Attending Physician</td>
<td>$825</td>
<td>$975</td>
</tr>
<tr>
<td>Resident, NP, PA-C, other healthcare providers</td>
<td>$434</td>
<td>$515</td>
</tr>
<tr>
<td>Adult Guest - Meal Package</td>
<td>$250</td>
<td>$350</td>
</tr>
</tbody>
</table>

Children are complimentary (up to 18 yrs. old)

The conference registration fee includes welcome reception, general sessions, course syllabus, and food and beverage functions Sunday – Wednesday for the registrant only. Guest fees include welcome reception and all food and beverage functions Sunday – Wednesday.

CANCELLATION POLICY

(All requests must be submitted in writing to Beaumont Health System.)
- A full refund less a $100 cancellation fee will be issued if written notification is received by January 1, 2013.
- No refunds will be issued after January 31, 2013.

The course directors reserve the right to cancel the conference due to unforeseen circumstances. In the unlikely event the conference is cancelled, a refund will be issued for the registration fee and any guest fees paid only. No refund or other compensation will be given for any related costs, charges, or expenses to participants, including fees assessed by airline / travel / lodging agencies.

“Thoroughly enjoyed the conference and would definitely attend in the future”
**REGISTRATION FORM**

Name  
Address  
City, State for name badge (if different from above)  
Telephone  
Fax  
Email  
Specialty  
Form of Payment  
Account Number:  
FAX to:  
ONLINE at:  
Registration Fees  
Pre-registration deadline is Friday, January 18, 2013.  
Please provide guest first and last names as you would like them to appear on badges.  
Children’s names and ages:  
Adult guests:  
*Children are complimentary (up to 18 yrs. old)*  
_Other:_  
Total # of Tickets  
PAYING BY CHECK?  
Expiration Date  
Total Amount Due  
**ADVANCED SKI TICKET ORDER FORM**

Name  
Address  
City, State for name badge (if different from above)  
Telephone  
Fax  
Email  
**LIFT TICKET AND RENTAL INFORMATION**

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For information on attractions and the local area, please visit: www.beavercreek.snow.com

**PAYING BY CHECK?**

Complete form and fax back to 248-898-9075.  
Check payable to Beaumont Hospital  
American Express  
Discover  
MasterCard  
Visa

**TOTAL # OF TICKETS**

| X | $ |

---
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CARDIOVASCULAR
CONFERENCE
BEAVER CREEK, CO

February 10-13, 2013

VISIT TO REGISTER: http://heart.beaumont.edu/classes-and-events

America’s Premier Meeting on Innovations in Cardiovascular Medicine

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Duke University School of Medicine
University of Colorado School of Medicine