9th Annual Comprehensive Review & Update of Perioperative Echo

Clinical Decision Making in the Cardiac Surgery Patient

Basic - February 13-15, 2006
Advanced - February 16-18, 2006

Sheraton San Diego Hotel & Marina
San Diego, CA

For Cardiologists, Cardiothoracic Surgeons, and Cardiovascular Anesthesiologists

Society of Cardiovascular Anesthesiologists
American Society of Echocardiography

Society of Cardiovascular Anesthesiologists
2209 Dickens Road
P.O. Box 11086
Richmond, VA 23230-1086
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Fax (804) 282-0090
Email sca@societyhq.com
www.scahq.org
Watch the website for meeting updates and online registration
9th Annual Comprehensive Review & Update of Perioperative Echo

Statement of Need

Perioperative echocardiography has become an integral tool in the management of patients undergoing various cardiac surgical procedures. However, the development of expertise demands an understanding of ultrasound technology and its utilization in the evaluation and guidance of the surgical management of cardiovascular dysfunction. The members of the Society of Cardiovascular Anesthesiologists and the American Society of Echocardiography have demanded interdisciplinary, patient-oriented educational programs to teach the requisite skills necessary for this diagnostic and monitoring to impact patient care. This interdisciplinary program sponsored by the SCA and offered in cooperation with ASE has been developed to meet the growing demand for such educational needs.

Target Audience

This course is designed for anesthesiologists, cardiologists, cardiac surgeons, and sonographers as a comprehensive review of perioperative echo.

PROGRAM DIRECTORS

Gregg S. Hartman, MD
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Dartmouth Hitchcock Medical Center

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Department of Cardiothoracic Anesthesia & Cardiology
Cleveland Clinic Foundation

PROGRAM COMMITTEE

Bruce A. Bollen, MD
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FACULTY

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Professor of Medicine
Adjunct Professor of Anesthesiology
Director, Cardiology Fellowship Programs
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Scott T. Reeves, MD
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Mt. Sinai School of Medicine

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Section of Cardiovascular Imaging
The Cleveland Clinic Foundation
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Cleveland Clinic Lerner College of Medicine

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Moore Chair in Cardiovascular Medicine
Director, Cardiovascular Imaging
Cleveland Clinic Foundation

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Columbia University College of Physicians and Surgeons

Daniel Vezina, MD
Assistant Professor of Anesthesiology & Cardiology
University of Utah

Lee K. Wallace, MD
Associate Staff Anesthesiologist
Department of Cardiothoracic Anesthesia
Cleveland Clinic Foundation
**Basic (February 13-15)**
**Monday, February 13, 2006**

**Cardiac Anatomy - Image Plane Correlation**
Moderator: GS Hartman

- 7:15 - 7:45 am Continental Breakfast
- 7:45 - 8:00 am Introduction and Overview of the Week
  - GS Hartman, SK Shernan
- 8:00 - 8:30 am Probe Placement and Manipulation
  - GS Hartman
- 8:30 - 9:00 am Comprehensive Exam
  - JS Shanewise
- 9:00 - 9:30 am Principles of Ultrasound
  - AC Perrino, Jr
- 9:30 - 10:00 am Knobology for Image Optimization
  - ST Reeves
- 10:00 - 10:30 am Coffee Break

**Anatomic Workshop – Part 1**
10:30 am - 12:15 pm Anatomic Imaging Plane Workshop
Moderator: GS Hartman
Faculty: J Fox, KE Glas, KP Grichnik, LB Heller, AC Perrino Jr, ST Reeves, RM Savage, JS Shanewise, SK Sherman, D Shook, L Shore-Lesserson, NJ Skubas

**Luncheon Series**
12:15 - 1:45 pm Update on Perioperative Certification
- DM Thys

**Anatomic Workshop – Part 2**
1:45 - 3:00 pm Anatomic Imaging Plane Workshop
Moderator: GS Hartman
Faculty: J Fox, KE Glas, KP Grichnik, LB Heller, AC Perrino Jr, ST Reeves, RM Savage, JS Shanewise, SK Sherman, D Shook, L Shore-Lesserson, NJ Skubas

**Basic Principles of TEE**
Moderator: KP Grichnik

- 3:30 - 4:00 pm Artifacts
  - LB Heller
- 4:00 - 4:30 pm Anatomic Pitfalls
  - KP Grichnik
- 4:30 - 5:00 pm Basic Hemodynamics
  - AC Perrino Jr
- 5:00 - 7:00 pm Dinner on Own

**Demonstration of Imaging Principles/Basic Exam/Measurements**
Moderator: SK Sherman

- 7:00 - 9:00 pm Performing an Exam: Structure directed vs. Esophageal level
  - GS Hartman, BC Spence
  - Basic Measurements and Values
  - NJ Skubas
  - Live Knobology Workshop: Demonstration of Echo Principles
  - KP Grichnik, D Shook, ST Reeves
  (all registrants will rotate through each station)

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**Tuesday, February 14, 2006**

**Basic Transesophageal Echocardiography I**
Moderator: LB Heller

- 6:45 - 7:15 am Continental Breakfast with Exhibitors
- 7:15 - 7:30 am Announcements
  - SK Shernan
- 7:30 - 8:00 am Left Ventricular Global Systolic Function
  - MJ London
- 8:00 - 8:30 am Right Ventricular Global Systolic Function
  - JB Mark
- 8:30 - 9:00 am Diastolic Function
  - SK Shernan
- 9:00 - 9:30 am Cases with Faculty and Q & A
  - MJ London, JB Mark, SK Shernan
- 9:30 - 10:00 am Coffee Break with Exhibitors
- 10:00 - 10:30 am Aortic Regurgitation
  - CA Trojanos
- 10:30 - 11:00 am Aortic Stenosis
  - L Shore-Lesserson
- 11:00 - 11:30 am Evaluation of the Aorta
  - KE Glas
- 11:30 am - 12:00 n Cases with faculty and Q & A
  - CA Trojanos, L Shore-Lesserson, KE Glas

**Luncheon Series**
12:00 n - 1:30 pm Nuts & Bolts of an Intraoperative Echo Service
- CA Trojanos

**Basic Transesophageal Echocardiography II**
Moderator: CA Trojanos

- 1:30 - 2:00 pm Mitral Regurgitation
  - SA Lambert
- 2:00 - 2:30 pm Mitral Stenosis
  - LB Heller
- 2:30 - 3:00 pm Tricuspid Valve & Pulmonic Valve
  - KE Glas
- 3:00 - 3:30 pm Cases with Faculty and Q & A
  - DJ Mark, LB Heller, KE Glas
- 3:30 - 4:00 pm Coffee Break with Exhibitors
- 4:00 - 4:30 pm Prosthetic Valves
  - ATW Cheung
- 4:30 - 5:00 pm Basic Congenital
  - K Rouine-Rapp
- 5:00 - 5:30 pm Cardiac Masses
  - L Shore-Lesserson
- 5:30 - 7:00 pm Dinner on Own

**Regional Wall Motion Workshop**
Moderator: D Vezina

- 7:00 - 7:30 pm Regional Wall Motion Evaluation
  - D Vezina
- 7:30 - 9:00 pm RWMA Unknown Case Presentations
  - D Vezina, AS Lambert, MJ London
### Cardiac Anatomy Wet Lab
**Moderators:** BA Bollen, GS Hartman  
**Faculty:** J Fox, KE Glas, KP Grichnik, RM Savage, SK Sherman, D Shook, NG Smedira

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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>6:45 - 7:15 am</td>
<td>Continental Breakfast with Exhibitors</td>
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<tr>
<td>7:15 - 7:30 am</td>
<td>Overview and Announcements</td>
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<tr>
<td>7:30 - 10:30 am</td>
<td>Cardiac Anatomy</td>
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<tr>
<td>10:30 - 11:00 am</td>
<td>TEE Correlations of Cardiac Anatomy</td>
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<td>11:00 am - 1:30 pm</td>
<td>Lunch on own</td>
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### Non-Cardiac Surgical Applications of Echocardiography
**Moderator:** LK Wallace

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:30 - 2:00 pm</td>
<td>Echocardiography in the ER/Trauma ST Reeves</td>
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<td>2:00 - 2:30 pm</td>
<td>Echo in the ICU &amp; Cath Lab JG Ramsay</td>
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<td>2:30 - 3:00 pm</td>
<td>Echocardiography for Vascular Cannulation BC Spence</td>
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<td>3:00 - 3:30 pm</td>
<td>Coffee Break with Exhibitors</td>
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### Echocardiography for Aortic Aneurysms & Dissections
**Moderator:** LK Wallace

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<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>3:30 - 4:00 pm</td>
<td>Aortic Aneurysms &amp; Dissections DA Zvara</td>
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### Echocardiography for Off-Pump CABG
**Moderator:** LK Wallace

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<th>Time</th>
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<tr>
<td>4:00 - 4:30 pm</td>
<td>Echocardiography for Off-Pump CABG JS Shanewise</td>
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### Emerging Applications of Perioperative Ultrasound

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<th>Time</th>
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<tr>
<td>4:30 - 5:00 pm</td>
<td>Hand-held Echo for Transthoracic Echocardiography D Oxorn</td>
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<td>5:00 - 5:30 pm</td>
<td>Perioperative Ultrasonography for Peripheral Nerve Block BC Spence</td>
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<td>5:30 - 6:00 pm</td>
<td>Break (on own)</td>
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### New Echocardiography Technology Reception

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<th>Time</th>
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<tr>
<td>6:00 - 7:30 pm</td>
<td>Reception with Industry: New Echocardiography Technology (no CME hours awarded) SK Sherman, GS Hartman, RM Savage</td>
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### Advanced (February 16-18)

#### Thursday, February 16, 2006

**Advanced Echocardiography I**

**Ventricular Function**  
**Moderator:** S Aronson

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 - 7:45 am</td>
<td>Announcements GS Hartman, SK Sherman</td>
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<tr>
<td>7:45 - 8:00 am</td>
<td>Announcements GS Hartman, SK Sherman</td>
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<tr>
<td>8:00 - 8:30 am</td>
<td>Advanced Systolic Function ATW Cheung</td>
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<td>8:30 - 9:00 am</td>
<td>Advanced Diastolic Function: “Beyond the E- and A-Wave” JD Thomas</td>
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<td>9:00 - 9:30 am</td>
<td>Echocardiographic Assessment of Myocardial Viability S Aronson</td>
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<td>9:30 - 10:00 am</td>
<td>Coffee Break with Exhibitors</td>
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**Echocardiography for Heart Failure & Pericardial Disease**  
**Moderator:** S Aronson

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<th>Time</th>
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<tr>
<td>10:00 - 10:30 am</td>
<td>Echocardiographic Evaluation of Cardiomyopathies A Maslow</td>
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<td>10:30 - 11:00 am</td>
<td>Intraoperative Echo for Ventricular Assist Devices and Heart Transplant D Oxorn</td>
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<tr>
<td>11:00 - 11:30 am</td>
<td>Echocardiographic Evaluation of Pericardial Disease EG Avery</td>
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**Aortic Atheromatous Disease & Neurocognitive Outcome**

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<tr>
<td>11:30 - 12:00 n</td>
<td>Aortic Atheromatous Disease &amp; Neurocognitive Outcome I Kronzon</td>
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**Luncheon Series**

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<th>Time</th>
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<tr>
<td>12:00 n - 1:30 pm</td>
<td>Future of Echocardiography CM Otto</td>
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**Advanced Echocardiography II**

**New Technologies**  
**Moderator:** D Shook

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<th>Time</th>
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<tr>
<td>1:30 - 2:00 pm</td>
<td>3D/4D Echocardiography D Shook</td>
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<td>2:00 - 2:30 pm</td>
<td>Tissue Doppler/Strain TBD</td>
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<td>2:30 - 3:00 pm</td>
<td>Coffee Break with Exhibitors</td>
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Aortic Valve - Advanced
Moderator: D Shook
3:00 - 3:30 pm  Timing of Surgery/Intervention for Asymptomatic Valve Disease
C Otto
3:30 - 4:00 pm  Intraoperative Echocardiographic Assessment of the Aortic Valve
I Kronzon
4:00 - 4:30 pm  Surgical Options for the Dysfunctional Aortic Valve
N Smedira
4:30 - 5:00 pm  Cases with Faculty and Q & A
CM Otto, I Kronzon, NG Smedira
5:00 - 7:00 pm  Dinner on Own

Hemodynamic Workshop
Moderator: SK Shernan
7:00 - 7:30 pm  Review of Hemodynamic Principles & Quantitative Doppler
JS Shanewise
7:30 - 9:30 pm  Case Discussions
SN Konstadt, MG Licina, JS Shanewise, SK Sherman, LK Wallace

Luncheon Series
12:15 - 1:30 pm  Future of Cardiac Surgery
SF Bolling

Advanced Mitral Valve
Moderator: RM Savage
1:30 - 2:00 pm  Intraoperative Assessment of the Mitral Valve
SN Konstadt
2:00 - 2:30 pm  Ischemic Mitral Regurgitation
WJ Stewart
2:30 - 3:00 pm  Surgical Repair of the Mitral Valve
SF Bolling
3:00 - 3:30 pm  Cases with Faculty and Q & A
SN Konstadt, WJ Stewart, SF Bolling
3:30 - 4:00 pm  Coffee Break

“Test Yourself”
Moderator: DA Zvara
4:00 - 5:30 pm  Mock Video Case & Written Exam
DA Zvara, RF Brooker, LK Wallace, D Oxorn, BC Spence, EG Avery
5:30 - 7:30 pm  Test Review
DA Zvara, RF Brooker, LK Wallace, D Oxorn, BC Spence, EG Avery

Friday, February 17, 2006
Role of Echocardiography in Perioperative Clinical Decision-Making
Moderator: RM Savage
7:00 - 7:45 am  Continental Breakfast
7:45 - 8:00 am  Announcements
SK Sherman, GS Hartman
8:00 - 8:30 am  What to do about Pre-CPB 2+ MR?
RM Savage
8:30 - 9:00 am  MS/MR Post Repair of MV
MG Licina
9:00 - 9:30 am  Echocardiography to Facilitate Weaning from CPB
RF Brooker
9:30 - 10:00 am  Coffee Break
10:00 - 10:30 am  Unanticipated Ascending Aortic Dilatation: How Big is Too Big?
ATW Cheung
10:30 - 11:00 am  Echocardiography for Adult Congenital Heart Disease
IA Russell
11:00 - 11:30 am  Echocardiographic Options when TEE is Contraindicated
KE Glas
11:30 am - 12:15 pm  Faculty’s Favorite Cases: Decision Dilemmas and Unknowns
RM Savage, MG Licina, RF Brooker, ATW Cheung, IA Russell, KE Glas

Saturday, February 18, 2006
Moderators: SK Sherman, GS Hartman
6:45 - 7:30 am  Continental Breakfast
7:30 - 10:30 am  You’re the Intraoperative Echocardiography Consultant
SK Sherman, GS Hartman, RF Brooker, A Maslow, MG Licina, IA Russell

Society of Cardiovascular Anesthesiologists
American Society of Echocardiography

The Society of Cardiovascular Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.
### Scientific Program Registration

**9th Annual Comprehensive Review & Update of Perioperative Echocardiography**

February 13-18, 2006

(Please print or type)

| Name ______________________________________________________________________ | MD | PhD | Other ___________ |
| Address ____________________________________________________________________________________________ |     |     |                  |
| City, State, Zip ____________________________________________________________________________________ |     |     |                  |
| Office Phone ( ) ____________________________ | Home Phone ( ) ____________________________ | Fax ( ) ____________________________ | Email ____________________________ |
| ☐ Anesthesiologist ☐ Cardiologist ☐ Surgeon ☐ Resident (CA 1, CA 2, CA 3) ☐ Other ___________ |
| ☐ Member (SCA) ☐ Member (ASE) ☐ Non-Member (MD, DO, PhD) ☐ Resident/Fellow* ☐ Allied Health |

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<thead>
<tr>
<th>Basic (February 13-15)</th>
<th>Advanced (February 16-18)</th>
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<tr>
<td>(Thru Dec. 12, 2005)</td>
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If attending both the basic and advanced sessions, please add both registration fees and place a total here. $ ____________ + $ ____________ = $ ____________

*When accompanied by a letter from Department Chairperson, verifying Resident/Fellow Status.

Included in the registration fee are:
- **Basic:** Continental Breakfasts, Coffee Breaks, Lunches, Course Syllabus and Wet Lab.
- **Advanced:** Continental Breakfasts, Coffee Breaks, Lunches, and Course Syllabus.
- Optional Evening Sessions: Beverages and Snacks.

Do you require ☐ vegetarian or ☐ kosher meals?

If paying by check, make payable to SCA and mail to P.O. Box 11086, Richmond, VA 23230-1086.

☐ Check ☐ VISA ☐ MasterCard ☐ Discover ☐ American Express

Card No. ____________________________ Exp. Date ____________________________

Signature ____________________________ Printed Name on Card ____________________________

Refund Policy: A full refund through December 12, 2005; 80% refund from December 13, 2005 through December 27, 2005; no refunds after December 27, 2005. Refunds will be determined by date written cancellation is received.

Americans with Disabilities Act: The Society of Cardiovascular Anesthesiologists has fully complied with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accommodations, please contact SCA at (804) 282-0084 by January 12, 2006 in order to receive service.

Mail or Fax to:
SCA, P.O. Box 11086, 2209 Dickens Road, Richmond, VA 23230-1086
Phone (804) 282-0084 • Fax (804) 282-0090

If you do not receive a confirmation letter from the SCA office within 30 days of submitting your registration form, please call the office to confirm that your registration material has been received.
Hotel Reservation Form

9th Annual Comprehensive Review & Update of Perioperative Echocardiography
February 13-18, 2006

The Sheraton San Diego Hotel and Marina Welcomes the Society of Cardiovascular Anesthesiologists

Sheraton San Diego Hotel and Marina

Reservations Department
1380 Harbor Island Drive
San Diego, CA 92101-1092
Reservations: Phone (877) 734-2726 • Fax (619) 692-2312
Guest: Phone (619) 291-2900 • Fax (619) 692-2337

Send Reservations to

Please Reserve:

_______ Rooms My Arrival Date is: ________________
Arrival Time: _______________ My Departure Date is: _______________
Check in time is 3:00 pm, but we try to accommodate early arrivals, check out time is 12 noon. For suites, please contact hotel directly.

Name ______________________________________________________________________________________________________
Last  First   MI
Preferred Mailing Address _____________________________________________________________________________________
City, State, Zip _____________________________________________
Email Address  ____________________________________
Office Phone _________________________
Home Phone ____________________________
Fax # ___________________________
Accompanying Person(s) Name(s) __________________________________________________
#Adults_______ #Children_______
Extra Adults in a room are $20 per night. There is no additional charge for children under the age of eighteen.

Standard Room
□ $245 Single  □ $265 Double
Premium Room
□ $255 Single  □ $275 Double (Guaranteed Views)
Club Room
□ $275 Single  □ $295 Double
Suites
□ $500 Lanai Suites  □ $750 Executive Suites
(Club Rooms and Suites include: Continental Breakfast for 2, Health Club Access, Local Phone Calls, and Self Parking)
(If your requested room and bedding type is not available, an alternate will be assigned.)

□ Non Smoking  □ Smoking  □ King  □ 2 Double Beds  □ Request Crib  □ (Based on availability)

Special Requests: ____________________________________________ Starwood Preferred Guest # __________________________

All reservations must be accompanied by a deposit for the first night room and 10.545% tax. There is no penalty for cancellations 7 days prior to the date of arrival. The deposit will be non refundable if the reservation is not cancelled 7 days prior to arrival.

Reservations include complimentary use of the Health Club and a high-speed internet connection.

□ Enclosed is my Check/Money Order in the amount of $____________ (Please make payable to Sheraton San Diego Hotel & Marina)

Please charge first night’s deposit to my: □ VISA  □ MasterCard  □ Discover  □ American Express
□ Enroute  □ JBC  □ Diners Club

Card No. ____________________________________________ Exp. Date ____________________________________
Signature ____________________________________________ Printed Name on Card ____________________________________

Cut-off date: Thursday, January 12, 2006
All rooms are subject to availability
Basic (February 13-15)

Course Objectives
The program will focus on the physical principles of ultrasound technology and their intraoperative application. This will include the anesthetic management and surgical decision-making process of patients undergoing cardiac and non-cardiac surgical procedures utilizing interactive case presentations. A “wet lab” experience with pig hearts will be available to demonstrate surgical cardiac anatomy and highlight the technical issues which must be addressed by the intraoperative echo.

Upon completion of this course, the participant will be capable of understanding the application of advanced echocardiographic diagnostic principles in the surgical patient including cardiac anatomy and the technical considerations involved in mitral valve repair, aortic valve/root repair or replacement, obstructive hypertrophic cardiomyopathy, and surgical management of congestive heart failure.

After attending the Basic Transesophageal Echo educational activity the participant will:
- understand the basic principles of 2D echo, spectral and color Doppler echocardiography
- learn to recognize basic cardiac anatomy, conduct a basic TEE examination, and evaluate basic function of the left ventricle and heart valves
- be aware of common errors and misinterpretations of cardiac anatomy
- have the basic knowledge necessary to establish an Echo Service that incorporates quality assurance as part of an intraoperative TEE program and enhances patient care.

Accreditation & Designation
The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 28 credits in category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those credits that he/she actually spent in the educational activity.

Advanced (February 16-18)

Course Objectives
The program will focus on the physical principles of ultrasound technology and their intraoperative application. This will include the anesthetic management and surgical decision-making process of adult and pediatric patients undergoing cardiac and non-cardiac surgical procedures.

Upon completion of this course, the participant will be capable of understanding the application of advanced echocardiographic diagnostic principles in the surgical patient including:
- the physics of ultrasound and its incorporation into current echocardiographic technology
- the components of the comprehensive intraoperative echo examination
- ventricular function and regional wall motion assessment and its correlation with other diagnostic studies such as coronary angiography
- the pathophysiology of valvular heart disease and its intraoperative assessment
- the principles guiding the surgical decision making process in cardiac surgery involving myocardial revascularization, valve repair or replacement, myectomy for LVOT obstruction, congenital heart disease, and thoracic aorta repair.

Accreditation & Designation
The Society of Cardiovascular Anesthesiologists designates this educational activity for a maximum of 24 credits in category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those credits that he/she actually spent in the educational activity.