CURRENT CONCEPTS IN JOINT REPLACEMENT™

Spring 2011
The ARIA at CityCenter
Las Vegas, Nevada

May 22 - 25, 2011

A Continuing Medical Education Program
jointly sponsored by

Course Director:
A. SETH GREENWALD, D.PHIL.(OXON)
COURSE DESCRIPTION
The course is open to orthopaedic surgeons, residents, nurses, and members of the orthopaedic and allied health industries.

- Hemi and total shoulder arthroplasty use has dramatically increased and is attributed to improvements in instrumentation, design modularity, and surgical technique.
- Both hip and knee reconstruction have evolved into mature sciences and are seen to be dependent on a triad of design, patient factors, and technical proficiency to achieve clinical longevity.
- This meeting will focus on both primary and revision outcomes, surgical approaches, new materials, and design as well as address problems of fixation, bone deficiency, instability, trauma, and infection for hip, knee, and shoulder replacement.
- An assemblage of contemporary thought leaders will probe the boundaries of these problems and offer solutions for joint pathologies where arthroplasty is indicated.
- Plenary commentary, didactic clinical reports, technique videos, debate, case challenges, and live surgery define the formats of presentation, which provide an optimal learning opportunity for orthopaedic surgeons and other allied professionals involved in joint reconstruction.

LEARNING OBJECTIVES
As a result of attending this symposium, the participant will be able to:

- Appraise evolving surgical techniques and implant technologies through didactic and interactive live presentation as well as evaluate early and long-term clinical outcomes.
- Identify problems and concerns relevant to hip, knee, and shoulder arthroplasty including polyethylene wear, inter-component failure, peri-prosthetic fracture, and long-term tissue response.
- Discuss optimal clinical application of current and evolving fixation techniques in primary and revision procedures including cement, hydroxyapatite, porous coating, press fit, impaction grafting, and evolving porous metal technologies.
- Identify solutions to difficult hip, knee, and shoulder reconstruction problems.
- Describe contemporary solutions to problems of bone loss in hip, knee, and shoulder reconstruction.

DISCLAIMER
The information in this educational activity is provided for general medical education purposes only and is not meant to substitute for the independent medical judgment of a physician relative to diagnostic and treatment options of a specific patient’s medical condition. The viewpoints expressed in this CME activity are those of the author/faculty. They do not represent an endorsement by the Current Concepts Institute. In no event will the Current Concepts Institute be liable for any decision made or action taken in reliance upon information provided through this CME activity.

ACCREDITATION STATEMENT
This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Case Western Reserve University School of Medicine and Current Concepts Institute. Case Western Reserve University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Case Western Reserve University School of Medicine designates this live activity for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity are eligible for American Osteopathic Association Category 2 CME credit.

AMERICANS WITH DISABILITIES ACT
Current Concepts Institute fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please call 216-295-1900 at least two weeks prior to the activity.

DISCLOSURE STATEMENT
The policy of the Case Western Reserve University School of Medicine CME Program requires that the Activity Director, planning committee members and all activity faculty (that is, anyone in a position to control the content of the education activity) disclose to the activity participants all relevant financial relationships with commercial interests. Disclosure will be made to activity participants prior to the commencement of the activity. The Case Western Reserve University School of Medicine also requires that faculty make clinical recommendations based on the best available scientific evidence and that faculty identify any discussion of “off-label” or investigational use of pharmaceutical products or medical devices.

TRAVEL ARRANGEMENTS
Avis is designated the car rental service:
Tel: 1-800-331-1600
Internet: http://www.CCLR.com
Continental Airlines, Inc. is designated the Official Airline:
Tel: 1-800-468-7022
Z Code: ZK8E
Internet: www.continental.com
Agreement Code: 377634

COURSE LOCATION
The ARIA at CityCenter is a fusion of energy, inspiration, and vision located on 67 acres on the iconic Las Vegas Strip. Forming the core of CityCenter, the dazzling urban resort destination destined to refine and redefine the Las Vegas Strip. The ARIA at CityCenter features an unprecedented combination of striking architecture, sustainable design, high-end service, world class cuisine, and spectacular amenities. Guests are swept away by its breathtaking beauty, stunning innovation, and the refreshing level of consciousness found in every detail. Its extraordinary history of dynamic cutting-edge developments, The ARIA at CityCenter introduces a new generation of resort experiences, unlike anything Las Vegas, and more remarkably the world, has ever seen.

HOTEL RESERVATIONS
The ARIA at CityCenter has reserved rooms for the CCJR meeting at $159.00/night + Tax during the meeting. HOTEL RESERVATIONS must be made directly with the hotel by Telephone 702-590-7757 or 866-359-7757. The DEADLINE for the room rate is April 22, 2011, based on availability. All reservations must be guaranteed by April 22, 2011 with a credit card.

The ARIA at CityCenter
3730 Las Vegas Boulevard South
Las Vegas, Nevada 89109 - USA
Tel: 866-359-7757
Online Reservations: www.arianlasvegas.com
Single & Double Room $159.00/night+Tax

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E-Mail: Info@CCJR.com
<table>
<thead>
<tr>
<th>FACULTY</th>
</tr>
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| **B. Sonny Bal, M.D., J.D., M.B.A.**  
University of Missouri School of Medicine  
Columbia, Missouri |
| **Robert L. Barrack, M.D.**  
Washington University Medical School  
St. Louis, Missouri |
| **Michael E. Berend, M.D.**  
Center for Hip & Knee Surgery  
Mooresville, Indiana |
| **Daniel J. Berry, M.D.**  
Mayo Clinic  
Rochester, Minnesota |
| **Louis U. Bigliani, M.D.**  
Columbia Presbyterian Medical Center  
New York, New York |
| **J. David Blaha, M.D.**  
University of Michigan  
Ann Arbor, Michigan |
| **Wayne Z. Burkhead, Jr., M.D.**  
University of Texas  
Dallas, Texas |
| **John Callaghan, M.D.**  
University of Iowa  
Iowa City, Iowa |
| **Hugh U. Cameron, M.B., F.R.C.S.(C)**  
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Toronto, Ontario, Canada |
| **John M. Cuckler, M.D.**  
Alabama Medical Consultants  
Naples, Florida |
| **Craig J. Della Valle, M.D.**  
Rush Orthopaedic Institute  
Chicago, Illinois |
| **David M. Dines, M.D.**  
Hospital for Special Surgery  
New York, New York |
| **Lawrence D. Dorr, M.D.**  
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Los Angeles, California |
| **Michael J. Dunbar, M.B., F.R.C.S.(C), Ph.D.**  
Dalhousie University  
Halifax, Nova Scotia, Canada |
| **C. Anderson Engh, Jr., M.D.**  
Anderson Orthopaedic Research Institute  
Alexandria, Virginia |
| **Gerard A. Engh, M.D.**  
Anderson Orthopaedic Research Institute  
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| **Evan L. Flatow, M.D.**  
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| **Reuben Gobeze, M.D.**  
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| **George J. Haidukewych, M.D.**  
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Orlando, Florida |
| **Aaron A. Hofmann, M.D.**  
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| **David S. Hungerford, M.D.**  
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| **Jay R. Lieberman, M.D.**  
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| **Adolph V. Lombardi, Jr., M.D.**  
Mt. Carmel New Albany Surgical Hospital  
New Albany, Ohio |
| **Steven J. MacDonald, M.D., F.R.C.S.(C)**  
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London, Ontario, Canada |
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Collierville, Tennessee |
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Philadelphia, Pennsylvania |
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Cleveland, Ohio |
| **John W. Sperling, M.D.**  
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Rochester, Minnesota |
| **S. David Stulberg, M.D.**  
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Boston, Massachusetts |
| **Robert T. Trousdale, M.D.**  
Mayo Clinic  
Rochester, Minnesota |
| **Kelly G. Vince, M.D., F.R.C.S.(C)**  
Whangarei Hospital  
Whangarei, New Zealand |
| **Leo A. Whiteside, M.D.**  
Missouri Bone & Joint Center  
St. Louis, Missouri |
REGISTRATION: Ironwood Ballroom
6:00p.m. - 8:00p.m. Sunday, May 22
6:30a.m. - 1:00p.m. Monday-Wednesday, May 23-25

WELCOME RECEPTION: Ironwood Ballroom
6:00p.m. - 8:00p.m. Sunday, May 22

MONDAY, MAY 23, 2011
6:30a.m. Buffet Breakfast

Opening Remarks:
7:30 A. Seth Greenwald, D.Phil.(Oxon)

SESSION I – Thomas S. Thornhill, M.D.
Orthopaedic Crossfire® I: Controversies in Shoulder Reconstruction
7:35 Reverse Arthroplasty: Best Option for 4-Part Fx’s in the Geriatric Patient
#1 Louis U. Bigliani, M.D. – Affirms
#2 Leesa M. Galatz, M.D. – Opposes
7:55 Subscapularis Tenotomy: Optimal Approach to Shoulder Replacement
#3 John W. Sperling, M.D. – Affirms
#4 Evan L. Flatow, M.D. – Opposes
8:15 Ream & Run: Best Management Solution for the Young Arthritic
#5 William H. Seitz, Jr., M.D. – Affirms
#6 Wayne Z. Burkhead, Jr., M.D. – Opposes

SESSION II – Evan L. Flatow, M.D.
Shoulder Replacement: Intra-Operative Issues Dictated by Diagnosis
8:35 #7 Arthritis of Dislocation: Recapturing Rotation
Reuben Gobezie, M.D.
8:40 #8 Avascular Necrosis: Hemi-Cap, Cap or Stemmed Solution?
William H. Seitz, Jr., M.D.
8:45 #9 Glenoid Deficiency: Makin’ Somethin’ Outa’ Nothin’
Wayne Z. Burkhead, Jr., M.D.
8:50 #10 Cuff Deficiency: Allograft, Transfer or Advance?
Louis U. Bigliani, M.D.
8:55 #11 Shoulder Fx’s: Pin, Plate or Replace?
Leesa M. Galatz, M.D.
9:00 Discussion

SESSION III – John W. Sperling, M.D.
“Live in Las Vegas”: Reverse Shoulder Reconstruction from The Hospital for Special Surgery, New York, New York
9:20 #12 Reverse Shoulder Arthroplasty: Restoring Function
David M. Dines, M.D. – Surgeon
10:20 Refreshments in the Exhibit Area

SESSION IV – Wayne Z. Burkhead, Jr., M.D.
Shoulder Arthroplasty: “Deal’in’ with Difficulties”
10:40 #13 Glenoid Fixation: Odds On Favorite?
Evan L. Flatow, M.D.
10:45 #14 Humeral Fixation, Impaction Grafting or Cement: Dealer’s Choice?
Reuben Gobezie, M.D.
10:50 #15 P. Acnes: Our Infection “Friend”
John W. Sperling, M.D.
10:55 #16 Post-Operative Infections: The Great Escape
Leesa M. Galatz, M.D.
11:00 #17 Post-Operative Instability: A Question of Balance
William H. Seitz, Jr., M.D.
11:05 Discussion

SESSION V – Louis U. Bigliani, M.D.
Evan L. Flatow, M.D.
Leesa M. Galatz, M.D.
Reuben Gobezie, M.D.
William H. Seitz, Jr., M.D.
John W. Sperling, M.D.

SESSION VI – Leesa M. Galatz, M.D.
Tips, Tidbits & Surgical Pearls: How I Do It!
12:00 #19 Rehabilitation Following Shoulder Replacement: Be All You Can Be!
William H. Seitz, Jr., M.D.
12:06 #20 Glenoid Exposure: Tricks of the Trade
Reuben Gobezie, M.D.
12:12 #21 Metaglen Placement in Reverse TSR: Practice Makes Perfect
Evan L. Flatow, M.D.
12:18 #22 Implant Removal in Revision Arthroplasty: A Tour de Force
Louis U. Bigliani, M.D.
12:24 #23 Lesser Tuberosity Fixation Following Arthroplasty: Texas Hold’Em
Wayne Z. Burkhead, Jr., M.D.
12:30 Lunch

SESSION VII – Kelly G. Vince, M.D., F.R.C.S.(C)
1:30 #24 The Advent of Biologic Intervention for Adult Knee Problems
Richard D. Parker, M.D.
The Enigma of Early Knee Disease
1:40 #25 The Role of Arthroscopy: Is There One?
Richard E. Jones, M.D.
1:46 #26 The Role of Osteotomy: Unloading the Compartments
Mark W. Pagnano, M.D.
1:52 #27 The Spectrum of Compartmental Replacement: From Focal to Uni
Richard D. Parker, M.D.
1:58 #28 Patello-Femoral Replacement: Is One Compartment Enough?
Gerard A. Engh, M.D.
2:04 #29 The Tri-Compartment Fixed Plateau: Why Bother With Less
Thomas P. Sculco, M.D.
2:10 Discussion

SESSION VIII – William J. Maloney III, M.D.
Orthopaedic Crossfire® II: Controversial Issues in Knee Arthroplasty
2:30 Cementless TKA: A Worthwhile Resuscitation
#30 Leo A. Whiteside, M.D. – Affirms
#31 Thomas S. Thornhill, M.D. – Opposes
2:50 Patient Specific Cutting Blocks: No Added Value
#32 Robert L. Barrack, M.D. – Affirms
#33 S. David Stulberg, M.D. – Opposes
3:10 Neutral Mechanical Alignment: Required For Long-Term TKA
#34 Adolph V. Lombardi, Jr., M.D. – Affirms
#35 Mark W. Pagnano, M.D. – Opposes
3:30 Refreshments in the Exhibit Area

SESSION IX – Michael J. Dunbar, M.D., F.R.C.S.(C), Ph.D.
Management Factorials in Primary TKA: Ensuring a Winner!
3:50 #36 Top "10" Ways to Ruin a Perfectly Good TKA
John M. Cuckler, M.D.
3:56 #37 Which Implant Should I Pick: Thoughtful Considerations
William M. Mihalko, M.D., Ph.D.
SESSION X – Kelly G. Vince, M.D., F.R.C.S.(C)
4:46 #42 What Would YOU do? Challenges in Knee Surgery
J. David Blaha, M.D.
Gerard A. Engh, M.D.
Richard E. Jones, M.D.
Matthew J. Kraay, M.D.
Javad Parvizi, M.D., F.R.C.S.

SESSION XI – Thomas P. Schmalzried, M.D.
Tips, Tidbits & Surgical Pearls in Knee Arthroplasty
5:26 #43 What the Registries Don't Tell Us: A Cautionary Tale
Robert L. Barrack, M.D.
5:32 #44 Tissue Guided TKA: A Paradigm Shift
Gerard A. Engh, M.D.
5:38 #45 Alignment & Ligament Balancing in TKA: You Can Have it All
Lea A. Whiteside, M.D.
5:44 #46 Reverse Hybrid Fixation in TKA: A Twist in Time
Matthew J. Kraay, M.D.
5:50 #47 Advancing Suture Technology in TKA: A Stitch in Time
Craig J. Della Valle, M.D.
5:56 #48 AP Instability: A Cause of Anterior Knee Pain
J. David Blaha, M.D.
6:02 #49 Iatrogenic MCL Injury During TKA: What To Do, What To Do?
Kenneth A. Krackow, M.D.
6:08 #50 UKA to TKA Conversion: Assuring a Primary Outcome
Adolph V. Lombardi, Jr., M.D.
6:14 #51 Getting Out the Well-Fixed Knee: All Hands On Deck
John M. Cuckler, M.D.
6:20 Adjournment

EXHIBITORS’ RECEPTION: Ironwood Ballroom
6:20p.m. – 8:00p.m.

TUESDAY, MAY 24, 2011
6:30a.m. Buffet Breakfast

SESSION XII – Robert T. Trousdale, M.D.
7:30 #52 Why Knees Fail in 2011: Patient, Surgeon or Device?
David S. Hungerford, M.D.
Revision Knee Arthroplasty: Doin’ the Right Thing
7:40 #53 Pre-Operative Planning: Avoiding Chaos
Kenneth A. Gustke, M.D.
7:46 #54 Peri-Prosthetic Ex’s After TKA: Hold ‘Em or Fold ‘Em
Craig J. Della Valle, M.D.
7:52 #55 The Unstable Knee: Causes & Cures
Kelly G. Vince, M.D., F.R.C.S.(C)
7:58 #56 Extensor Mechanism Disruption: When the Unthinkable Happens
Aaron G. Rosenberg, M.D.
8:04 #57 Contemporary Bone Loss Options: Rebuild, Reinforce & Augment
George J. Haidukewych, M.D.
8:10 Discussion

SESSION XIII – Aaron G. Rosenberg, M.D.
8:30 #58 Hip & Knee Arthroplasty 2011: What’s New, What’s True, Does it Matter?
Evidence Based Issues
Joshua J. Jacobs, M.D.
William J. Maloney III, M.D.
Michael A. Mont, M.D.
Mark W. Pagnano, M.D.
Michael D. Ries, M.D.

SESSION XIV – Thomas S. Thornhill, M.D.
Orthopaedic Crossfire® III: Re-Examining Hip & Knee Arthroplasty Technologies
9:05 Rethinking Patella Replacement: It Really Isn’t Necessary
#59 Michael J. Dunbar, M.D., F.R.C.S.(C), Ph.D. – Affirms
#60 Steven J. MacDonald, M.D., F.R.C.S.(C) – Opposes
9:25 Computer Navigation in TJA: More Bother Than It’s Worth
#61 Robert T. Trousdale, M.D. – Affirms
#62 Arun Mullaji, F.R.C.S.(Ed), M.S. – Opposes
9:45 Metal-Metal Articulation: Cease & Desist
#63 William J. Maloney III, M.D. – Affirms
#64 Thomas P. Schmalzried, M.D. – Opposes
10:05 Refreshments in the Exhibit Area

SESSION XV – John J. Callaghan, M.D.
Primary Hip Replacement: What Works & for Whom?
10:25 #65 Cross-Linked Polyethylene: Standard of Care?
Michael D. Ries, M.D.
10:31 #66 Cemented Femoral Fixation: Back to the Future?
Michael J. Dunbar, M.D., F.R.C.S.(C), Ph.D.
10:37 #67 Cementless Stems: Is There an Optimum?
C. Anderson Engh, Jr., M.D.
10:43 #68 Stubby Stems: The Napoleonic Solution
Kenneth A. Gustke, M.D.
10:49 #69 Femoral Neck Modularity: A Time & a Place
Stephen B. Murphy, M.D.
10:55 #70 Acetabular Options: Notes From the Other Side
Matthew J. Kraay, M.D.
11:01 Discussion

SESSION XVI – Daniel J. Berry, M.D.
11:20 #71 Performing a Primary Hip Arthroplasty
Michael J. Dunbar, M.D., F.R.C.S.(C), Ph.D.
C. Anderson Engh, Jr., M.D.
William M. Mihalko, M.D., Ph.D.
Arun Mullaji, F.R.C.S.(Ed), M.S.
Joshua J. Jacobs, M.D.
Evidence Based Issues
11:45 #72 OREF/CCJR Clinical Award Paper
To Be Announced
12:00 Lunch

SESSION XVII – Thomas P. Sculco, M.D.
“Live in Las Vegas”: Hip & Knee Arthroplasty Procedures from
The Hospital for Special Surgery, New York, New York; Thomas
Jefferson University Hospital, Philadelphia, Pennsylvania; & Good
Samaritan Hospital, Los Angeles, California
1:00 #73 Metal-Metal Hip Resurfacing: For the Right Indications
Joshua J. Jacobs, M.D. – Moderator
Edwin P. Su, M.D. – Surgeon
1:45 #74 A Universal Hip: A Solution For All Seasons
Javad Parvizi, M.D., F.R.C.S. – Moderator
Richard H. Rothman, M.D., Ph.D. – Surgeon
Continuous Refreshments in the Exhibit Area

WEDNESDAY, MAY 25, 2011

SESSION XVIII – Jay R. Lieberman, M.D.
Hip Arthroplasty: Avoiding Pitfalls & Managing Problems
7:30 #79 Pre-Operative Planning: It's More Than Just Templating
Thomas P. Schmalzried, M.D.
7:36 #80 Heterotopic Bone: An Ongoing Dilemma in THA
William M. Mihalko, M.D., Ph.D.
7:42 #81 The Infected Hip: Avoidance & Treatment
Craig J. Della Valle, M.D.
7:48 #82 The Dysplastic Hip: Not For the Shallow Surgeon
Allan E. Gross, M.D., F.R.C.S.(C)
7:54 #83 The Down Syndrome Patient: Not a Downer
Michael A. Mont, M.D.
8:00 #84 Acetabular Protrusio: A Problem in Depth
Michael D. Ries, M.D.
8:06 Discussion

SESSION XIX – Daniel J. Berry, M.D.
8:26 #85 The Case For Hip Resurfacing: A Bigger Picture
Robert L. Barrack, M.D.

SESSION XX – Adolph V. Lombardi, Jr., M.D.
9:36 #92 What Would YOU do? Challenges in Hip Surgery
Hugh U. Cameron, M.B., B.S., F.R.C.S.(C)
George J. Haidukewych, M.D.
Kenneth A. Krackow, M.D.
Wayne G. Paprosky, M.D.
Robert T. Trousdale, M.D.
10:16 Refreshments in the Exhibit Area

MEETING PROCEEDINGS
A COMPLETE SET OF AUDIO MP3'S WILL BE GIVEN TO EACH PARTICIPANT DURING THE CLOSING RECEPTION.

AN INTERACTIVE DVD-ROM OF THIS CCJR MEETING AND A DVD OF THE LIVE SURGERIES WILL BE SUBSEQUENTLY MAILED.

PRESENT AND PAST PROGRAMS CAN BE VIEWED AT www.CCJR.com.
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Aesculap Implant Systems
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SPRING 2011
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Course Fee: $850
Participant Information: (Circle) Surgeon - Resident - Nurse - Other
First/Given Name: ________________________________________________
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PLEASE SUBMIT THE COURSE REGISTRATION FORM TO
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Current Concepts Institute
PMB 295, 14837 Detroit Avenue, Lakewood, Ohio 44107 - USA
Tel: 216-295-1900 • Fax: 216-295-9955 • E-Mail: Info@CCJR.com

Current Concepts in Joint Replacement™ - Spring 2011
• ENROLLMENT IS LIMITED •
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• Abstract Book, Audio MP3’s, and an Interactive DVD-ROM,
  and a DVD of the Live Surgeries •
• Three Receptions • Three Buffet Breakfasts & Two Lunches •

REGISTRATION SIGN-IN
Exhibitors Only: Sunday, May 22, 2011 from 2:00p.m. - 4:00p.m.
All Participants: Sunday, May 22, 2011 from 6:00p.m. - 8:00p.m.
Monday, May 23, 2011 - Wednesday, May 25, 2011 from 6:30a.m. - 1:00p.m.

WELCOME RECEPTION
Sunday, May 22, 2011 from 6:00p.m. - 8:00p.m.

COURSE PRE-REGISTRATION DEADLINE: April 22, 2011 • No
registration will be held without payment • Registration can be transferred to
another individual wishing to attend CCJR-S11 only • Registration received
after April 22, 2011 is subject to a $50 late fee • Cancellation must be received in
writing • Cancellation after April 22, 2011 is subject to a $100 penalty • No refund
will be granted after May 2, 2011 • Walk-in and late registrations will only be
accepted if space is available • Confirmation is sent by mail or e-mail •
• Room Reservations Must Be Made Directly With the Hotel •