American Brachytherapy Society 2009 Annual Meeting Final Program
May 31 - June 2, 2009 | Westin Harbour Castle | Toronto, Ontario, Canada
2009 Annual Meeting Learning Objectives:

At the conclusion of this educational activity, the participant should be able to:

1. Describe refresher courses in prostate, breast, and gynecologic brachytherapy with a focus on improving the therapeutic ratio
2. Evaluate clinical updates from leading world experts in the field of brachytherapy
3. Compare innovative methods of prostate and breast brachytherapy with interactive workshops
4. Compare treatment options for high-risk prostate cancer
5. Review focal, targeted therapies for early stage prostate and breast cancers
6. Debate the various methods of partial breast irradiation for treatment of early stage disease
7. Demonstrate brachytherapy techniques in less common disease sites with an interactive video-based show and tell session
8. Explain the latest research in brachytherapy physics
9. Review advances in imaging and current brachytherapy techniques
10. Address current topics in brachytherapy-specific treatment planning systems and quality assurance measures
11. Explore the role of advanced technology and physics in the development of future brachytherapy approaches
12. Discuss the role of heterogeneity corrections in brachytherapy systems
13. Highlight current controversies in hypofractionated external beam radiation versus brachytherapy
Acknowledgment of 2009 Annual Meeting Commercial Support

The American Brachytherapy Society would like to acknowledge the special support, through an unrestricted educational grant, of the following organizations, who contribute not only to the Annual Meeting but to other ABS programs and events throughout the year:

Best Medical International
Nucletron
Oncura
Theragenics Corporation
Varian BrachyTherapy

ABS Monday Night Gala Event at The Hart House

The Gala Event Monday night is for paid attendees and paid guests. Exhibitors must register at the ABS registration desk at $125 per person. Enjoy, light food, drinks and music while networking and talking with fellow attendees and guests. Dress is business casual and attendees should meet in the hotel lobby between 6:00 and 6:15 for bus transportation to the event. Return transportation is also provided, however attendees are free to see surrounding sites, restaurants, etc. at the conclusion of the Gala Event and return later to the hotel via taxicab.

ABS Past Presidents

2009 Brian J. Davis, MD, PhD
2008 Gregory S. Merrick, MD
2007 W. Robert Lee, MD
2006 Douglas W. Arthur, MD
2005 Frank A. Vicini, MD
2004 Michael J. Zelefsky, MD
2003 Beth A. Erickson, MD
2002 Colin Orton, PhD
2001 David Beyer, MD
2000 James Fontanesi, MD
1999 Subir Nag, MD
1998 Kent Wallner, MD
1996-97 Burton L. Speiser, MD
1995 Arthur T. Porter, MD
1994 John C. Blasko, MD
1993 Louis B. Harrison, MD
1992 Alvaro A. Martinez, MD
1991 Kenneth H. Luk, MD
1990 Peter A. Fleming, MD
1989 Dattatreyudu Nori, MD
1988 Karen K. Fu, MD
1987 Luis DeClos, MD
1986 Basil S. Hilaris, MD
1985 Don R. Goffinet, MD
1984 A.M. Nisar Syed, MD
1983 Thomas C. Gates, MD
1982 Ajmel A. Puthawala, MD
1981 Paul Y. M. Chan, MD
1980 Aaron G. Fingerhut, MD
1979 David L. Neblett, MS
1978 Harvey S. Frey, MD, PhD
Annual Meeting Faculty

Douglas Arthur, MD
Professor and Vice Chairman
VCU Medical Center/Massey Cancer Center
Richmond, VA

Mostafa Atri, MD
University of Toronto
Toronto, Ontario, Canada

Luc Beaulieu, PhD
Associate Professor and Head of Physics Research
Centre Hospitalier de Quebec
Quebec, PQ, Canada

Peter D. Beitsch, MD, FACS
Dallas Surgical Group
Dallas, TX

Sushil Beriwal, MD
Residency Program Director & Medical Director
Magee Women’s Hospital
Pittsburgh, PA

Ashwini Budrukkar, MD
Assistant Professor
Tata Memorial Hospital
Mumbai, India

Wayne Butler, PhD
Medical Physicist
Schiffler Cancer Center/Wheeling Jesuit University
Wheeling, WV

Asa Carlesson, MD
Research Fellow
Linköping University
Linköping, Sweden

Jamie Cesaretti, MD
Florida Radiation Oncology Group
Jacksonville, FL

Joe Chin, MD
Chair, Division of Surgical Oncology
University of Western Ontario
Ontario, Canada

Gilad Cohen, MS
Memorial Sloan-Kettering Cancer Center
New York, NY

Juanita Crook, MD
Professor of Radiation Oncology
Princess Margaret Hospital
Toronto, Ontario, Canada

Laurie Cuttino, MD
Assistant Professor
Virginia Commonwealth University, Medical College Of Virginia
Richmond, VA

Brian Davis, MD
Mayo Clinic
Rochester, MN

Phillip Devlin, MD
Director of Brachytherapy
Harvard Medical School
Boston, MA

Adam Dickler, MD
Little Company of Mary
Evergreen Park, IL

David D’Souza, MD
Radiation Oncologist
London Health Sciences Center
London, Ontario, Canada

Patricia Eifel, MD
Professor of Radiation Oncology
MD Anderson Cancer Center
Houston, TX

Michael Evans, MD
Montreal General Hospital
Montreal, QC, Canada

Don Fuller, MD
Radiation Medical Group
San Diego, CA

Keith Furutani, PhD
Assistant Professor
Mayo Clinic
Rochester, MN

David Jaffney, PhD
Ontario Cancer Institute
Toronto, Ontario, Canada

Gary Gustafson, MD
William Beaumont Hospital
Troy, MI

Mason Haider, MD
University of Toronto
Toronto, Ontario, Canada

Jorgen Hansen, PhD
Chief of Brachytherapy Physics
Brigham and Women’s Hospital
Boston, MA

John Hayes MD, MS
Gamma West Brachytherapy
Salt Lake City, UT

Caroline Holloway, MD
BC Cancer Agency, Vancouver Island Cancer Center
Vancouver, BC, Canada

Eric Horwitz, MD
Chairman
Fox Chase Cancer Center
Philadelphia, PA

I-Chow “Joe” Hsu, MD
Associate Professor of Radiation Oncology
University of California at San Francisco
San Francisco, CA

Kenneth Hu, MD
Assistant Professor
Memorial Sloan-Kettering Cancer Center
New York, NY

Martin E. Keisch, MD
Cedars Medical Center
Miami, FL

Mira Keyes, MD, FRCPc
Head, Provincial Prostate Brachytherapy Program
BC Cancer Agency
Vancouver, BC, Canada

Deepak Khuntia, MD
Assistant Professor
University Of Wisconsin
Madison, WI

Adam Kibel, MD
Washington University School of medicine
St. Louis, MO

Christian Kirisits, PhD, ScD
Associate Professor
Medical University of Vienna
Vienna, Austria

Steve Kurtzman, MD
Director of Prostate Brachytherapy
Western Radiation Oncology
San Mateo, CA

Robert R. Kuske, Jr., MD
Arizona Breast Cancer Services
Scottsdale, AZ

W. Robert Lee, MD
Professor, Department of Radiation Oncology
Duke University School of Medicine
Durham, NC
Cynthia Menard, MD  
Princess Margaret Hospital  
Toronto, Ontario, Canada

Gregory Merrick, MD  
Director/Urologic Research Institute  
Schiffler Cancer Center  
Wheeling Jesuit University  
Wheeling, WV

Michael Milosevic, MD  
Clinician Scientist and  
Radiation Oncologist  
Princess Margaret Hospital  
Toronto, Ontario, Canada

Gerald Morton, MD  
Sunnybrook Regional Cancer Center  
Toronto, Ontario, Canada

Firas Mourtada, PhD  
Assistant Professor, Radiation Physics Department  
MD Anderson Cancer Center  
Houston, TX

Subhakar Mutyala, MD  
Montefiore Medical Center  
New York, NY

Vrinda Narayana, PhD  
Associate Professor, Chief Physicist  
Providence Cancer Institute  
Southfield, MI

Rakesh Patel, MD  
Director Of Breast Cancer Services  
Western Radiation Oncology, Inc  
Mount View, CA

Jean-Phillippe Pignol, MD, PhD  
Sunnybrook Health Sciences Centre  
Toronto, Ontario, Canada

Jean Pouliot, PhD  
Professor and Vice Chair  
UCSF Comprehensive Cancer Center  
San Francisco, CA

Bradley Prestidge, MD  
Medical Director  
Texas Cancer Clinic  
San Antonio, TX

Mark Rivard, PhD  
Professor and Chief Medical Physicist  
Tufts-New England Medical Center  
Boston, MA

Jason Rownd, MS  
Senior Medical Physicist  
Medical College Of Wisconsin  
Milwaukee, WI

Raxa Sankreacha, PhD  
Medical Physicist  
Carlo Fidani Peel Regional Cancer Centre/  
Credit Valley Hospital  
Mississauga, Ontario, Canada

Thomas Shanahan, MD  
University Radiologists  
Springfield, IL

Anil Sharma, PhD, DRP  
Long Beach Memorial Medical Center  
Long Beach, CA

Frank-Andre Siebert, PhD  
Chief Medical Physicist  
UKSH Campus Kiel  
Kiel, Germany

Ron Sloboda, PhD  
Senior Medical Physicist  
Cross Cancer Institute  
Edmonton, Alberta, Canada

Ingrid Spadinger, PhD  
BC Cancer Research  
Vancouver, BC, Canada

Nelson Stone, MD  
Professor of Urology and  
Radiation Oncology  
Mount Sinai School of Medicine  
New York, NY

Alphans Taghian, MD  
Harvard Medical School  
Boston, MA

Bruce Thomadsen, PhD  
University Of Wisconsin  
Madison, WI

Dorin Todor, PhD  
Assistant Professor  
Virginia Commonwealth University  
Richmond, VA

Jack Venselaar, PhD  
Medical Physicist  
Dr. B. Verbeeten Institute  
Tilburg, Netherlands

Frank Vicini, MD  
William Beaumont Hospital  
Royal Oak, MI

Eric Vigneault, MD, MsC  
CHUQ, Hotel-Dieu De Quebec  
Quebec, PQ Canada

Akila Viswanathan, MD, MPH  
Assistant Professor of Radiation Oncology  
Harvard Medical School  
Chief, Gynecologic Radiation Oncology  
Brigham and Women's Hospital /  
Dana-Farber Cancer Institute  
Boston, MA

Te Vuong, MD  
Research Institute of the McGill University Health Center  
Montreal, QC, Canada

Kent Walliner, MD  
Department of Veterans Affairs  
Puget Sound Health Care System  
Seattle, WA

David Wazer, MD  
Professor and Chairman  
Department of Radiation Oncology,  
Tufts University School of Medicine  
Boston, MA

Josh Yamada, MD  
Assistant Attending  
Memorial Sloan-Kettering Cancer Center  
New York, NY

Catheryn Yashar, MD  
The University Of California,  
San Diego  
San Diego, CA

Ivan Yeung, PhD  
Princess Margaret Hospital  
Toronto, Ontario, Canada

Marco Zaiden, PhD  
Memorial Sloan-Kettering Cancer Center  
New York, NY

Michael J. Zelefsky, MD  
Memorial Sloan-Kettering Cancer Center  
New York, NY
Saturday, May 30
1:00 – 6:00 pm  
Registration and Commercial Exhibit Set-Up

Sunday, May 31
7:00 am – 4:30 pm  
Commercial Exhibits
7:00 am – 5:00 pm  
Registration
7:00 – 7:30 am  
Continental Breakfast
7:30 – 7:35 am  
Welcome: Rakesh Patel, MD, Scientific Program Chair
7:35 – 8:30 am  
Prostate Brachytherapy: Improving the Therapeutic Ratio  
Co-Moderators:  
Mira Keyes, MD  
British Columbia Cancer Agency, Vancouver, BC, Canada  
Gerard Morton, MD  
Toronto-Sunnybrook Regional Cancer Center, Toronto, Ont., Canada
8:30 – 10:10 am  
High-Risk Prostate Cancer (Audience Response System)  
Moderator:  
Michael J. Zelefsky, MD  
Memorial Sloan-Kettering Cancer Center, New York, NY
Panelists:  
Pro: Radical Prostatectomy  
Adam S. Kibel, MD  
Washington University School of Medicine, St. Louis, MO
Pro: Brachytherapy +/- EBRT  
Gregory S. Merrick, MD  
Schiffler Cancer Center, Wheeling Jesuit University, Wheeling, WV
Pro: IMRT Alone +/- AA  
Eric Horwitz, MD  
Fox Chase Cancer Center, Philadelphia, PA
10:10 – 10:30 am  
Refreshment Break
10:30 – 11:30 am  
Prostate Proffered Papers I  
Co-Moderators:  
Juanita M. Crook, MD, FRCPC  
Princess Margaret Hospital, Toronto, Ont., Canada
John Hayes, MS, MD  
Gamma West Brachytherapy, Salt Lake City, UT
10:30 – 11:30 am  
Breast Proffered Papers I  
(Parallel Session)  
Co-Moderators:  
Robert R. Kuske, Jr., MD  
Arizona Breast Cancer Specialists, Scottsdale, AZ
Ashwini Budrukkar, MD  
Tata Memorial Hospital, Mumbai, India
11:30 am – 12:00 pm  
ABS Presidential Address:  
Brian J. Davis, MD, PhD  
ABS President
12:00 noon – 1:00 pm  Lunch (attendees on their own)

12:00 noon – 1:00 pm  Resident Luncheon
Sponsored by Oncura

Speaker:
Kent E. Wallner, MD
Puget Sound Health Care System, Seattle, WA

MOC & SAM’s
W. Robert Lee, MD
Duke University Medical Center, Durham, NC

1:00 – 1:45 pm  Ulrich Henschke Award
Sponsored by Best Medical International, Inc.

Ulrich Henschke Memorial Lecture
Michael J. Zelefsky, MD
Memorial Sloan-Kettering Cancer Center
New York, NY

1:45 – 3:00 pm  Advances in Brachytherapy for Cervical Cancer
(Audience Response System)

Moderator:
Nina A. Mayr, MD
Arthur G. James Cancer Hospital at Ohio State, Columbus, OH

Panelists:
3D Image-Guided Brachytherapy in the U.S.
Akila N. Viswanathan, MD, MPH
Brigham and Women’s Hospital/Dana-Farber Cancer Institute, Boston, MA

Uncertainties in MR Image-Guided Cervical Cancer Brachytherapy
Christian Kirisits, ScD
Medical University of Vienna, Vienna, Austria

Optimization in HDR Brachytherapy: Protocols and Pitfalls
Jason Rownd, MS
Medical College of Wisconsin, Milwaukee, WI

1:45 – 3:00 pm  Physics: Advanced Technology
(Parallel Session)

Co-Moderators:
Keith Furutani, PhD
Mayo Clinic, Rochester, MN

Ivan Yeung, PhD
Princess Margaret Hospital, Toronto, Ont., Canada

Panelists:
The Future of Imaging in Brachytherapy
David A. Jaffray, PhD
Ontario Cancer Institute / Princess Margaret Hospital, Toronto, Ont., Canada

The Future of Brachytherapy Physics in North America
Mark J. Rivard, PhD
Tufts-New England Medical Center, Boston, MA
## Agenda

**3:00 – 3:20 pm**  
**Refreshment Break**

**3:20 – 4:30 pm**  
**GYN Proffered Papers I**  
**Co-Moderators:**  
Caroline Holloway, MD  
BC Cancer Agency, Vancouver Island Cancer Centre  
Vancouver, BC, Canada  
Sushil Beriwal, MD  
University of Pittsburgh Medical Center, Pittsburgh, PA

**3:20 – 4:30 pm**  
**Physics Proffered Papers I**  
**Co-Moderators:**  
Ingrid Spadinger, PhD  
BC Cancer Research Center, Vancouver, BC, Canada  
Marco Zaider, PhD  
Memorial Sloan-Kettering Cancer Center, New York, NY

**4:30 – 5:30 pm**  
**Adjuvant Treatment for Endometrial Cancer. What to do Now?**  
Patricia J. Eifel, MD  
MD Anderson Cancer Center, Houston, TX

**6:30 pm – 7:30 pm**  
**Welcome Reception, Poster Review and Exhibits in Exhibit Hall**

**Monday, June 1**

**7:00 am – 5:00 pm**  
**Registration**

**7:00 am – 5:00 pm**  
**Commercial Exhibits**

**7:00 – 7:30 am**  
**Continental Breakfast**

**7:15 – 8:00 am**  
**Breast Brachytherapy: Improving the Therapeutic Ratio**  
David E. Wazer, MD  
Tufts New England Medical Center, Boston, MA

**8:00 – 9:30 am**  
**Debates in Breast Brachytherapy (Audience Response System)**  
**Moderator:**  
Rakesh Patel, MD  
Western Radiation Oncology, Mountain View, CA

**Panelists:**  
*Should APBI Be Offered Off-clinical Trial?*  
**PRO: APBI Is Ready For Prime-Time**  
Robert R. Kuske, Jr., MD  
Arizona Breast Cancer Specialists, Scottsdale, AZ

**PRO: Whole Breast Radiation Is the Standard of Care**  
*To be determined*

**Discussant:**  
Frank Vicini, MD  
William Beaumont Hospital, Royal Oak, MI
Optimal Technique of Accelerated Partial Breast Irradiation
PRO: Brachytherapy
David E. Wazer, MD
Tufts New England Medical Center, Boston, MA

PRO: External Beam RT
Alphonse Taghian, MD
Harvard Medical School, Boston, MA

Discussant: Doug Arthur, MD
Virginia Commonwealth University, Richmond, VA

9:30 – 9:55 am
Refreshment Break

9:55 – 10:55 am
Breast Proffered Papers II
Co-Moderators:
Laurie Cuttino, MD
Virginia Commonwealth University, Richmond, VA

Jean-Philippe Pignol, MD
Sunnybrook Health Sciences Centre, Toronto, Canada

9:55 – 10:55 am
(Parallel Session)
Prostate Proffered Papers II
Co-Moderators:
Eric Vigneault, MD
Hôtel-Dieu de Québec, Quebec City, Quebec, Canada

Thomas G. Shanahan, MD, FACRO
University Radiology
Springfield, IL

11:00 – 12:10 pm
Plenary Session
Co-Moderators:
Brian J. Davis, PhD, MD
Mayo Clinic, Rochester, MN

Rakesh R. Patel, MD
Western Radiation Oncology, Mountain View, CA

12:15 – 1:40 pm
ABS Member Lunch and ABS Annual Business Meeting
(event for ABS members-only)
Sponsored by Theragenics

1:40 – 2:40 pm
Prostate Proffered Papers III
Co-Moderators:
Josh Yamada, MD
Memorial Sloan-Kettering Cancer Center, New York, NY

Bradley Prestige, MD
Texas Cancer Clinic
San Antonio, TX

1:40 – 2:40 pm
(Parallel Session)
Physics Proferred Papers II
Co-Moderators:
Vrinda Narayana, PhD
Providence Cancer Institute, Southfield, MI

Raxa Sankreacha, MSc
Carlo Fidani Peel Regional Cancer Centre/Credit Valley Hospital,
Mississauga, Ont., Canada
2:40 – 4:00 pm
Prostate: Targeting Prostate Cancer (Audience Response System)
Co-Moderators:
Brian J. Davis, MD, PhD
Mayo Clinic, Rochester, MN
Gregory S. Merrick, MD
Schiffler Cancer Center, Wheeling Jesuit University, Wheeling, WV
Panelists:
Imaging Perspective
Masoom Haider, MD
University of Toronto, Toronto, Ont., Canada
Pathologic Perspective and Surveillance
Gregory S. Merrick, MD
Schiffler Cancer Center, Wheeling Jesuit University, Wheeling, WV
Targeted Therapy: Focal Brachytherapy
I-Chow “Joe” Hsu, MD
University of California at San Francisco, San Francisco, CA
Targeted Therapy: Cryotherapy and HIFU
Joseph L Chin, MD, FRCSC
London Health Sciences Center/University of Western Ontario,
Ont., Canada

2:40 – 4:00 pm (Parallel Session)
Physics: Heterogeneity Corrections in Brachytherapy
Co-Moderators:
Dorin Todor, PhD
Virginia Commonwealth University, Richmond, VA
Ron S. Sloboda, PhD, FCCM
Cross Cancer Institute, Edmonton, Alberta, Canada
Panelists:
Monte Carlo in Brachytherapy Planning Systems
Luc Beaulieu, PhD
Hôtel-Dieu de Québec, Quebec City, Quebec, Canada
Accuracy of Collapsed Cone Convolution Calculations
Asa Carlesson, PhD
Linköping University, Linköping, Sweden
Feasibility of Deterministic Transport Calculations
Firas Mourtada, PhD
MD Anderson Cancer Center, Houston, Texas

4:00 – 5:30 pm
Imaging the Radiation Response: Implications for Treatment
(Audience Response System)
Moderator:
Patricia J. Eifel, MD
MD Anderson Cancer Center, Houston, TX
Panelists:
Imaging of Cervical Cancer - Impact on Treatment Planning
Mostafa Atri, MD
University of Toronto, Toronto, Ont., Canada
Adapting to Change: A Template for Improved Treatment of Cervix Cancer
Michael Milosevic, MD
Princess Margaret Hospital, Toronto, Ont., Canada

3D Evaluation of Pelvic Anatomy and Movement
Catheryn Yashar, MD
University of California, San Diego, CA

4:00 – 5:30 pm   Prostate Hands-On Workshops
(Parallel Session)
(concurrent sessions, registration is limited and will be on a first-come, first-served basis; registration is included in your registration fee)

1) HDR Prostate Implants I
a) I-Chow “Joe” Hsu, MD
University of California at San Francisco, San Francisco, CA
b) Gerard C. Morton, MD
Toronto-Sunnybrook Regional Cancer Center, Toronto, Ont., Canada

2) HDR Prostate Implants II (Beyond CT: US or MRI)
a) Cynthia Menard, MD
Princess Margaret Hospital, Toronto, Canada
b) Gary Gustafson, MD
William Beaumont Hospital, Royal Oak, MI

3) LDR Real-Time Implants I
a) Thomas G. Shanahan, MD, FACRO
University Radiologists, Springfield, IL
b) Jamie A. Cesaretti, MD
Florida Radiation Oncology Group, Jacksonville, FL

4) LDR Real-Time Implants II
a) Steve Kurtzman, MD
Western Radiation Oncology, Mountain View, CA
b) Nelson Stone, MD
Mount Sinai School of Medicine, New York, NY

5) LDR Physics
a) Wayne M. Butler, PhD
Schiffler Cancer Center/Wheeling Jesuit University, Wheeling, WV

6) HDR Physics
a) Frank-André Siebert, PhD
UKSH Campus Kiel, Kiel, Germany

6:30 – 8:30 pm   Gala Event at the Hart House
(meet in hotel lobby from 6:00-6:15 pm)

Tuesday, June 2
7:00 am – 12:30 pm   Registration
7:00 am – 12:00 pm   Commercial Exhibits
7:00 – 7:30 am        Continental Breakfast
7:30 – 9:00 am        Brachytherapy Show and Tell
Co-Moderators:
Bradley R. Prestidge, MD
Texas Cancer Center, San Antonio, TX
Phillip Devlin, MD
Brigham and Women’s Hospital/Dana-Farber Cancer Institute,
Boston, MA

Panelists:
Penile Brachytherapy
Juanita M. Crook, MD, FRCPC
Princess Margaret Hospital, Toronto, Ont., Canada

Rectal Brachytherapy
T. Young, MD
Research Institute of the McGill University Health Centre,
Montreal, Que., Canada

Head and Neck Brachytherapy
Ken Hu, MD
Beth Israel Medical Center, New York, NY

Lung Brachytherapy
Deepak Khuntia, MD
University of Wisconsin, Madison, WI

7:30 – 9:00 am
(Parallel Session)
Physics: Achieving Quality in Brachytherapy
Co-Moderators:
Anil Sharma, PhD, DRP
Long Beach Memorial Medical Center, Long Beach, CA
Gilad Cohen, MS
Memorial Sloan-Kettering Cancer Center, New York, NY

Panelists:
The Challenges of Commissioning Brachytherapy Equipment
Jack L.M. Venselaar, PhD
Dr. B. Verbeeten Institute, Tilburg, The Netherlands

The Challenges of Quality Assurance for Advance Techniques
Bruce R. Thomadsen, PhD
University of Wisconsin/Medical Physics and Human Oncology,
Madison, WI

9:00 – 10:00 am
Accelerated Partial Breast Irradiation Hands-On Workshops (two 30 minute sessions)
Concurrent sessions, registration is limited and will be on a first-come,
first-served basis; registration is included in your registration fee

1. Multi-Catheter Interstitial Technique
   Robert R. Kuske, Jr., MD
   Arizona Breast Cancer Services
   Scottsdale, AZ

2. MammoSite Balloon Brachytherapy
   Martin E. Keisch, MD
   Cedars Medical Center
   Miami, FL

3. Contura Multi-lumen Balloon
   Douglas Arthur, MD
   VCU Medical Center / Massey Cancer Center
   Richmond, VA
4. ClearPath  
   Peter D. Beisch, MD, FACS  
   Dallas Surgical Group  
   Dallas, TX

5. XOFT  
   Adam Dickler, MD  
   Little Company of Mary  
   Evergreen Park, IL

5. SAVI  
   Catheran Yashar, MD  
   University of California, San Diego  
   San Diego, CA

9:00 – 10:00 am  GYN Proferred Papers II  
(Parallel Session)  
Co-Moderators:  
   David P. D’Souza, MD  
   London Regional Cancer Center, London, Ont., Canada  
   Jorgen L. Hansen, MS  
   Brigham and Women’s Hospital/Dana-Farber Cancer Institute Boston, MA

10:00 – 10:20 am  Refreshment Break

10:20 – 11:20 am  Physics Proffered Papers III  
Co-Moderators:  
   Jean Pouliot, PhD  
   University of California-SF, San Francisco, CA  
   Michael Evans, MD  
   Montreal General Hospital, Montreal, Que., Canada

10:20 – 11:20 am  Miscellaneous Proffered Papers  
(Parallel Session)  
Co-Moderators:  
   Phillip Devlin, MD  
   Brigham and Women’s Hospital/Dana-Farber Cancer Institute, Boston, MA  
   Subhakar Mutyala, MD  
   Montefiore Medical Center, New York, NY

11:20 am – 12:30 pm  Extreme Hypofractionation versus Brachytherapy  
Moderator:  
   Kent E. Wallner, MD  
   Puget Sound Health Care System, Seattle, WA

Panelists:  
   External Radiation  
   Don Fuller, MD  
   Cyberknife Center of San Diego, San Diego, CA

   HDR Monotherapy  
   Gary Gustafson, MD  
   William Beaumont Hospital, Royal Oak, MI

   Informed Consent  
   Kent E. Wallner, MD  
   Puget Sound Health Care System, Seattle, WA

12:30 pm  Meeting Adjourns
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<tr>
<th>Day / Time</th>
<th>Event</th>
<th>Function Room / Location</th>
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<tr>
<td>Saturday to Tuesday</td>
<td>1:00-6:00 pm Registration</td>
<td>Metro Ballroom Foyer / Conference Centre</td>
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<tr>
<td>Sunday</td>
<td>7:00 am-4:30 pm Exhibits / Breakfast / Breaks / Posters</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<td><strong>General Sessions</strong></td>
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<td>7:30 am Prostate Brachytherapy</td>
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<td>8:30 am High-Risk Prostate Cancer</td>
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<td>10:10 am Break</td>
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<td>10:30 am Prostate Proffered Papers Session 1</td>
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<td>11:30 am ABS Presidential Address</td>
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<td>1:00 pm ABS Ulrich Henschke Award and Henschke Memorial Lecture</td>
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<td>1:45 pm Advances for Cervical Cancer</td>
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<td>3:00 pm Break</td>
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<td>3:20 pm GYN Proffered Papers Session 1</td>
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<td>4:30 pm Endometrial Cancer</td>
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<td><strong>Parallel Sessions</strong></td>
<td><strong>Pier 4 Room / Hotel Convention Level</strong></td>
</tr>
<tr>
<td></td>
<td>10:30 am Breast Proffered Papers Session 1</td>
<td>Pier 4 Room / Hotel Convention Level</td>
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<tr>
<td></td>
<td>1:45 pm Physics: Advanced Technology</td>
<td>Yonge Room / Conference Centre</td>
</tr>
<tr>
<td></td>
<td>3:20 pm Physics Proffered Paper Session 1</td>
<td>Bay Room / Conference Centre</td>
</tr>
<tr>
<td>Noon-1:00 pm (for Residents only)</td>
<td>Residents’ Luncheon</td>
<td>Pier 5 Room / Hotel Convention Level</td>
</tr>
<tr>
<td>Noon-1:00 pm</td>
<td>AAPM Brachytherapy Subcommittee</td>
<td>Quay Room / Conference Centre</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>ABS Board Meeting</td>
<td>Pier 9 Room / Hotel Convention Level</td>
</tr>
<tr>
<td>6:30-7:30 pm</td>
<td>Welcome Reception</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
</tr>
<tr>
<td>Monday</td>
<td>7:00 am-5:00 pm Exhibits / Breakfast / Breaks / Posters</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td><strong>General Sessions</strong></td>
<td><strong>Metro Ballroom East / Conference Centre</strong></td>
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<tr>
<td></td>
<td>7:15 am Breast Brachytherapy</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<td></td>
<td>8:00 am Breast Brachytherapy Debate</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td>9:30 am Break</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td>9:55 am Breast Proffered Papers 2</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td>11:00 am Plenary Session</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td>1:40 pm Prostate Proffered Papers Session 3</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
</tr>
<tr>
<td></td>
<td>2:40 pm Targeting Prostate Cancer</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td></td>
<td>4:00 pm Imaging the Radiation Response</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
</tr>
<tr>
<td>Day / Time</td>
<td>Event</td>
<td>Function Room / Location</td>
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<tr>
<td>9:55 am</td>
<td><strong>Parallel Sessions</strong></td>
<td><strong>Pier 4 Room / Hotel Convention Level</strong></td>
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<tr>
<td></td>
<td>Prostate Proffered Papers 2</td>
<td></td>
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<tr>
<td>1:40 pm</td>
<td>Physics Proffered Papers Session 2</td>
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<tr>
<td>2:40 pm</td>
<td>Physics: Heterogeneity Corrections</td>
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<tr>
<td></td>
<td>Speaker Ready Room</td>
<td>Yonge Room / Hotel Convention Level</td>
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<td></td>
<td>Faculty Room</td>
<td>Bay Room / Conference Centre</td>
</tr>
<tr>
<td>12:15-1:40 pm</td>
<td>ABS Annual Business Meeting and ABS Membership Lunch</td>
<td>Regatta Room / Hotel Lobby Level</td>
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<tr>
<td></td>
<td>(ABS members only)</td>
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<tr>
<td>4:00-5:30 pm</td>
<td><strong>Prostate Hands-On Workshops:</strong></td>
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<tr>
<td></td>
<td>1) HDR Prostate Implants 1</td>
<td>Queens Quay 1 / Hotel Lobby Level</td>
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<tr>
<td></td>
<td>2) HDR Prostate Implants 2</td>
<td>Queens Quay 2 / Hotel Lobby Level</td>
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<tr>
<td></td>
<td>3) LDR Real-Time Implants 1</td>
<td>Pier 2 Room / Hotel Convention Level</td>
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<tr>
<td></td>
<td>4) LDR Real-Time Implants 2</td>
<td>Pier 3 Room / Hotel Convention Level</td>
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<tr>
<td></td>
<td>5) LDR Physics</td>
<td>Pier 5 Room / Hotel Convention Level</td>
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<td></td>
<td>6) HDR Physics</td>
<td>Pier 6 Room / Hotel Convention Level</td>
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<tr>
<td>4:30-6:00 pm</td>
<td>ABS Physics Committee</td>
<td>Pier 7 Room / Hotel Convention Level</td>
</tr>
<tr>
<td>6:30-8:30 pm</td>
<td>Gala Event</td>
<td>At The Hart House; meet in hotel lobby from 6:00 to 6:15 pm for bus service</td>
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<tr>
<td><strong>Tuesday</strong></td>
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<tr>
<td>7:00 am-12:00 pm</td>
<td>Exhibits / Breakfast / Breaks / Posters</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td>7:30 am</td>
<td><strong>General Sessions</strong></td>
<td><strong>Metro Ballroom East / Conference Centre</strong></td>
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<tr>
<td>10:00 am</td>
<td>Brachytherapy Show and Tell</td>
<td>Metro Ballroom West &amp; Centre / Conference Centre</td>
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<tr>
<td>10:20 am</td>
<td>Break</td>
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<tr>
<td>11:20 am</td>
<td>Physics Proffered Papers 3</td>
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<tr>
<td>7:30 am</td>
<td>Physics: Achieving Quality</td>
<td><strong>Pier 4 Room / Hotel Convention Level</strong></td>
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<tr>
<td>9:00 am</td>
<td>GYN Proffered Papers 2</td>
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<tr>
<td>10:20 am</td>
<td>Miscellaneous Proffered Papers</td>
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<tr>
<td>9:00-10:00 am</td>
<td><strong>Accelerated PBI Hands-On Workshops:</strong></td>
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<tr>
<td></td>
<td>1) Multi-Catheter Interstitial</td>
<td>Queens Quay 1 / Hotel Lobby Level</td>
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<tr>
<td></td>
<td>2) MammoSite Balloon</td>
<td>Queens Quay 2 / Hotel Lobby Level</td>
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<td></td>
<td>3) Contura Multi-Lumen Balloon</td>
<td>Pier 2 Room / Hotel Convention Level</td>
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<td>4) ClearPath</td>
<td>Pier 6 Room / Hotel Convention Level</td>
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<tr>
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<td>5) Xoft</td>
<td>Pier 3 Room / Hotel Convention Level</td>
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<td>6) SAVI</td>
<td>Pier 7 Room / Hotel Convention Level</td>
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<tr>
<td></td>
<td>Speaker Ready Room</td>
<td>Yonge Room / Hotel Convention Level</td>
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<tr>
<td></td>
<td>Faculty Room</td>
<td>Bay Room / Conference Centre</td>
</tr>
</tbody>
</table>
Oncura 2009 Seattle Prostate Brachytherapy Fellowship Recipients

Christopher J. Anker, MD  
Huntsman Cancer Hospital  
Salt Lake City, UT  

Thomas P. Boike, MD  
University of Texas Southwestern  
Dallas, TX  

Felix Yi-Chung Feng, MD  
University of Michigan Medical Center  
Ypsilanti, MI  

Siavash Jabbari, MD  
University of California  
San Francisco  
San Francisco, CA  

Baoqing Li, MD, PhD  
University of California Davis  
UC Davis Cancer Center  
Sacramento, CA  

Akash Nanda, MD, PhD  
Harvard Radiation Oncology Program  
Boston, MA  

Thomas Pugh, MD  
University of Colorado  
Denver, CO  

Daniel C. Schiffrin, MD  
University of California Irvine  
Marina Del Rey, CA  

Kevin L. Stephens, MD  
Cleveland Clinic Foundation  
Cleveland, OH  

Tiffany Tam, MD  
Juravinski Cancer Centre  
Burlington, Ontario, Canada  

Houman Vaghefi, MD  
University of Southern California  
Los Angeles, CA  

Ruijie Yang, PhD  
Peking University Third Hospital  
Beijing, China  

James Yu, MD  
Yale University School of Medicine  
New Haven, CT

Nucletron 2009 Texas Cancer Clinic HDR Brachytherapy Fellowship Recipients

Siddhartha Baxi, MD  
Princess Alexandra Hospital  
Queensland, Australia  

John Christodoulou, MD, MPH  
Johns Hopkins Hospital  
Baltimore, MD  

Karen H. Cohen, MD  
Baylor College of Medicine  
Houston, TX  

Megan DeHaan, MD  
Kaiser Permanente  
Los Angeles, CA  

Felix Yi-Chung Feng, MD  
University of Michigan  
Ypsilanti, MI  

Vimoj Nair, J. MD  
Pandit B.D. Sharma Post Graduate Institute of Medical Sciences  
Rohtak, Haryana, India  

Brandon Patton, MD  
University of Miami  
Miller School of Medicine  
Miami Beach, FL  

Leonardo Vieira Poli, MD  
Santa Casa de Misericordia de Porto Alegre  
Brazil  

Eswaran Prasad  
Christian Medical College  
Vellore, India  

Andrew Owen Wahl, MD  
Nebraska Medical Center  
Omaha, NE
Oncura 2009 Resident Travel Grant Award Recipients

Jarrod Adkison, MD
Five-Year Results Of Accelerated Partial Breast Irradiation For Ductal Carcinoma In Situ Treated By Interstitial Multi-Catheter HDR Brachytherapy Or Mammosite

J. Adam Cunha, PhD
Inverse-Planned Image-Guided Robotic Brachytherapy: Pre-Clinical Proofs Of Principle

Ramez Eskander, MD
Comparison Of CT And MRI Cervical Cancer Brachytherapy Target And Normal Tissue Volumes

Nataliya Kovalchuk, PhD
Dosimetric Effect Of Interfractional Catheter Displacement In Prostate High-Dose-Rate (HDR) Brachytherapy

Sayan Kundu, MBBS
High Dose Rate Intracavitary Brachytherapy In Locally Advanced Uterine Cervix Cancer Using Three Different Fractionation Schedules: An Indian Experience

Robert Markelweitz, MD, MMSc
A Comparison Of The Biological Effective Dose (Bed) Of 50kv Electronic Brachytherapy To Iridium-192 High-Dose Rate Brachytherapy For Vaginal Cuff Irradiation

Jyoti Mayadev, MD
Permanent Prostate Brachytherapy In Prostate Glands Less Than 20 Cm³

Priti Patel, MD
Seroma Is An Expected Consequence And Not A Complication Of MammoSite Brachytherapy

Andrea Rottenfusser, MD
Treatment Of Locally Advanced Vaginal Cancer With Radio-Chemotherapy And MRI-Guided Brachytherapy: Clinical Feasibility And First Results

Shirin Sioshansi, MD
A Dosimetric Comparison Of Accuboost Non-Invasive Partial Breast Brachytherapy To Electron Beam Tumor Bed Boost And 3-D Conformal APBI

Kevin Stephans, MD
Evaluation Of Long-Term Bowel And Urinary Toxicity After Permanent Prostate Brachytherapy

Alina Sturdza, MD
Clinical Impact Of Dose Volume Adaptation And Dose Escalation In MRI-Guided HDR Brachytherapy Including The Use Of Combined Intracavitary/Interstitial Techniques For Patients With Poor Response Cervical Cancer Figo Stage IIB Or IIIB

Jamema Swamidas, MSc, Dip. RP
Loading Pattern Calculated By Inverse Optimization Vs. Traditional Dosimetry Systems Of Intracavitary Brachytherapy Of Cervical Cancer - A Dosimetric Study

Manpreet Tiwana, MD
Spatial Distribution And Dvh Parameters Correlation Of Additional Rectal/Sigmoid Mucosal Points, In High Dose Rate Intracavitary Brachytherapy (ICA-HDR) For Carcinoma Cervix - A Dosimetric Study

Robyn Vera, DO
Does Treatment Time Or Source Strength Affect Late Toxicity In Accelerated Partial Breast Irradiation (APBI) Brachytherapy?
It is a pleasure to honor Dr. Zelefsky with the 2009 ABS Ulrich Henschke Award. The Henschke Award is the most prestigious award presented by the ABS in recognition of contributions made to the profession.

Dr. Michael Zelefsky received his M.D. degree from the Albert Einstein College of Medicine in New York in 1986. He completed his Residency at Memorial Sloan-Kettering Cancer Center (MSKCC) in New York where he was the Chief Resident between 1989 and 1990. He was then subsequently appointed to the faculty of the Department of Radiation Oncology, where he has devoted most of his clinical research to the area of prostate and head and neck cancer.

Dr. Zelefsky was appointed Chief of the Brachytherapy Service at MSKCC in 1997. He helped develop and pioneer intraoperative conformal planning for prostate brachytherapy at that time, which incorporated sophisticated inverse-planning algorithms and intraoperative dose-volume histogram tools for enhancing the quality of low-dose-rate prostate brachytherapy. These innovations were then adapted into commercially available systems to allow for real-time planning. These innovations have further enhanced the ability of the brachytherapist throughout the world to perform more consistently higher quality brachytherapy procedures, which has in turn led to improved clinical outcomes. Dr. Zelefsky has also made important contributions to the field exploring uses of brachytherapy and its integration with functional imaging such as magnetic resonance imaging spectroscopy, as well as the role of dose escalation and intensity-modulated radiation therapy in the management of prostate cancer. He continues to explore with his colleagues the use of enhanced real-time high-precision methods of seed implantation and high-dose rate brachytherapy.

Dr. Zelefsky is currently Professor of Radiation Oncology and remains a prolific, internationally recognized and respected clinician and clinical researcher. Dr. Zelefsky is the author of well over 200 peer-reviewed papers, mostly in the area of genitourinary oncology. He has served the American Brachytherapy Society (ABS) for many years with great distinction. In addition to being a Board Member and the Society’s Secretary and Treasurer (2000-2002), Dr. Zelefsky served as the Society’s President and Chairman of the Board between 2003 and 2005. He was the Scientific Program Coordinator for the highly successful International Meeting for ABS and Groupe Européen de Curiethérapie-European Society for Therapeutic Radiology and Oncology (GEC ESTRO), which took place in Barcelona in 2004. This meeting served as a critical milestone for establishing strong ties that continue to exist between the two societies.

Dr. Zelefsky is currently the Editor-in-Chief of Brachytherapy, the official journal of the ABS. Now in its 8th extraordinarily successful year, the journal is the only one of its kind devoted to brachytherapy and recognized for its high-quality, peer-reviewed publications. It achieved Medline status early on and has brought further recognition to the ABS as the pre-eminent society in the world for representing brachytherapy in oncology.

Dr. Zelefsky lives with his wife and four children in Manhattan. He is an accomplished musician who enjoys playing the piano for relaxation.
2009 Annual Meeting Exhibitors

The American Brachytherapy Society and participating societies extend a sincere thank you to all of our corporate supporters and we encourage all attendees to visit with our exhibitors over the course of the meeting.

Company | Booth Number | Tabletop
--------- |--------------|-------
Advanced Radiation Therapay / AccuBoost | | C
Bard Urological Division | 208 | 
Best Medical International | 217 | 
B-K Medical Systems, Inc. | 212 | 
Brachysciences | 210 | 
BrachySolutions / PDS | 215 | 
Calypso Medical Technologies | | B
Cianna Medical | 213 | 
Civco Medical Systems | | A
Core Oncology | 111 | 
Diacor, Inc. | 314 | 
Elsevier Publishing | 206 | 
Envisioneering Medical | | H
EUSA Pharma (USA), Inc. | | F
Harvard Medical School | | E
Hitachi Medical Systems America | 109 | 
Hologic | | D
IBt-BEBIG | | L
IsoAid LLC | 203 | 
IsoDose Control | 103 | 
IsoRay Medical, Inc. | 207 | 
Lippincott William & Wilkins | | G
Mick Radio Nuclear Instruments, Inc. | 211 | 
MUCHeck, Oncology Data Systems | | I
Nucletron | 306 | 
Oncura | 202 | 
Revenue Cycle | | J
SenoRX | 302 | 
Sirtex Medical Inc. | | K
Theragenics Corporation | 310 | 
Varian BrachyTherapy | 115 | 
Xoft, Inc. | 209 |
Future ABS Annual Meetings

2010: April 29 - May 1 | Hyatt Regency Atlanta
2011: April 14 - 16 | Manchester Grand Hyatt, San Diego
2012: World Congress of Brachytherapy

Future ABS Educational Schools

2009 GYN School: June 28-29 | Knickerbocker Hotel, Chicago, IL
Floor Plan | Weston Harbor Castle | Toronto