2017 Scientific Program Committee

Daniel G. Petereit, MD, FASTRO | Chair
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Rapid City, SD

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Houston, TX

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21st Century Oncology
Chandler, AZ

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University of Wisconsin
Madison, WI

Mira Keyes, MD, FRCPC
BC Cancer Agency
Vancouver, BC

Firas Mourtada, PhD, DABR, FAAPM
Christiana Care Health System
Newark, DE

Peter F. Orio, III, DO, MS | Consulting Chair
Dana-Farber/Brigham and
Women’s Cancer Center
Boston, MA

Peter J. Rossi, MD
Emory University School of Medicine
Winship Cancer Institute
Atlanta, GA

Simona F. Shaitelman, MD, Ed.M
MD Anderson Cancer Center
Houston, TX

Past Presidents

2016 David K. Gaffney, MD, PhD
2015 David E. Wazer, MD, FCR, FASTRO
2014 Akila N. Viswanathan, MD, MPH
2013 Bradley R. Prestidge, MD, MS
2012 Juanita M. Crook, MD, FRCPC
2011 Rakesh R. Patel, MD
2010 Eric M. Horwitz, MD
2009 Brian J. Davis, MD, PhD
2008 Gregory S. Merrick, MD
2007 W. Robert Lee, MD, MS, MEd
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
1996-1997 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 Delclos, 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
2017 Annual Meeting Learning Objectives

1. Understand the current American Brachytherapy Society’s guidelines for brachytherapy and the literature supporting these modalities, controversies, available methods and toxicities.

2. Learn about the current capabilities of brachytherapy treatment planning.

3. Understand the indications and proper techniques for brachytherapy.

4. Describe the changes and potential future changes in health policy and the impact on brachytherapy practices.

5. Obtain knowledge and hands-on experience in anatomy and organ segmentation in both prostate and gynecologic carcinoma as well as application of brachytherapy for skin cancers.

6. Understand the current data regarding different fractionation schedules and clinical implications of different approaches.

7. Understand new treatment devices and how these can impact patient care.

8. Understand new imaging modalities and how this can impact brachytherapy.

Accreditation and Credit Statement: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of PeerPoint Medical Education Institute and the American Brachytherapy Society. The PeerPoint Medical Education Institute is accredited by the ACCME to provide continuing medical education for physicians.

PeerPoint Medical Education Institute designates the live format for this educational activity for a maximum of 19.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Course is approved by the Commission on Accreditation of Medical Physicists Education programs (CAMPEP) of 45.25 Category A continuing education credits. Course is pending approval by the Medical Dosimetrist Certification Board (MDCB) for continuing education credit.

Upon request, a record of attendance (certificate) will be provided on-site at the registration desk to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

Conflict of Interest and Off-Label/Disclosure Statement: Presenters at this meeting will disclose any conflict of interest or their intention to discuss off-label use, if applicable, in accordance with ACCME Standards and FDA requirements.
Dr. Crook completed her training in Radiation Oncology at the Princess Margaret Hospital in 1985. Brachytherapy was not a big part of Radiotherapy training programs in the 1980’s; in fact, apart from gynecologic sites, it was almost non-existent. Following her Canadian Royal College Exams, she sought to diversify her training with a Fellowship and believed that a European experience, particularly one in France, would offer a different spectrum of techniques and approaches. Six months with Professor Jean Claude Horiot in Dijon, and 6 months with Professor Bernard Pierquin in Creteil determined the path of the rest of her career. Brachytherapy was integral to the treatment of many tumour sites in France, not just cervical and endometrial cancer, but also head and neck sites including oral tongue, base of tongue, and floor of mouth. She visited Mme Monique Pernot and learned her technique for tonsil and soft palate brachytherapy, and Professor Jean Papillon for his expertise in anal canal treatment. She saw her first penile brachytherapy and breast brachytherapy. She was bitten with the brachy bug and determined to bring these techniques home with her.

She returned to Canada to the Ottawa Regional Cancer Center, which luckily had its own Special Procedures Unit, perfect for a Brachytherapy Suite. With the support of a keen physics staff led by Dr. Joanna Cygler, programs were commenced in head and neck, skin, and penile brachytherapy, all using manually afterloaded Iridium wire. This was a good start but prostate cancer was on the rise due to screening, and it was time to develop a brachytherapy program for prostate cancer.

So she moved to Toronto in 1998 to start an LDR Prostate Brachytherapy program at her old alma mater, Princess Margaret Hospital. Mentored from Seattle by Drs John Blasko, Peter Grimm and John Sylvester, the program took off. Her focus was on Quality Assurance and teaching, but 10 years and 1000 implants later, it was time to branch out again. She left her Professorship at University of Toronto and moved to British Columbia.

Now a Professor at UBC and practicing in Kelowna in the Okanagan Valley, she is again blessed with keen and supportive physicists. With their help, Kelowna now has wide ranging programs in both LDR and HDR brachytherapy. Mentoring and quality remain her foremost goals. Teaching Fellows, ABS Scholars, ABS Workshops and Schools all compete with her time in the OR, which is of course the reason the rest exists! Along the way she attracted the attention of the ABS, serving for 6 years on the Board of Directors, culminating in her Presidency in 2011, and receiving the Thom Shanahan Distinguished Brachytherapy Educator Award in 2015.

On the personal level, she is very proud of her 2 children, Martin, an engineering physicist, and Eleanor who is studying Clinical Psychology. With her husband Dr Robert MacMillan, she enjoys running, road biking, cycle touring, cross country skiing, canoe tripping and hiking, and occasionally she finds time to paint.
# 2017 Annual Meeting Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michele Albert, MD</td>
<td>Dana-Farber/Brigham and Women’s Cancer Center Boston, MA</td>
<td></td>
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<tr>
<td>Bethany M. Anderson, MD</td>
<td>University of Wisconsin</td>
<td>Madison, WI</td>
</tr>
<tr>
<td>Facundo Ballester, PhD</td>
<td>University of Valencia</td>
<td>Burjassot, Valencia</td>
</tr>
<tr>
<td>Luc Beaulieu, PhD</td>
<td>CHU De Québec – Ulaval</td>
<td>Quebec City, Quebec</td>
</tr>
<tr>
<td>Sushil Beriwal, MD</td>
<td>University of Pittsburgh</td>
<td>Pittsburgh, PA</td>
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<tr>
<td>Mandar Bhagwat, PhD</td>
<td>Dana-Farber/Brigham and Women’s Cancer Center Boston, MA</td>
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<tr>
<td>Ajay Bhatnagar, MD, MBA</td>
<td>21st Century Oncology</td>
<td>Scottsdale, AZ</td>
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<tr>
<td>Pierre Blanchard, MD, PhD</td>
<td>MD Anderson Cancer Center</td>
<td>Houston, TX</td>
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<tr>
<td>Elizabeth S. Bloom, MD</td>
<td>MD Anderson Cancer Center</td>
<td>Houston, TX</td>
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<tr>
<td>Kristin A. Bradley, MD</td>
<td>University of Wisconsin</td>
<td>Madison, WI</td>
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<tr>
<td>Ivan Buzurovic, PhD</td>
<td>Dana-Farber/Brigham and Women’s Cancer Center Boston, MA</td>
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<tr>
<td>Donald Cannon, MD</td>
<td>University of Utah School of Medicine</td>
<td>Salt Lake City, UT</td>
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<tr>
<td>Albert J. Chang, MD, PhD</td>
<td>University of California San Francisco</td>
<td>San Francisco, CA</td>
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<tr>
<td>Peter Y. Chen, MD, FACR</td>
<td>Beaumont Health System</td>
<td>Bloomfield Hills, MI</td>
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<tr>
<td>Junzo P. Chino, MD</td>
<td>Duke University Medical Center</td>
<td>Durham, NC</td>
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<tr>
<td>Robert A. Cormack, PhD</td>
<td>Brigham and Women's Hospital</td>
<td>Boston, MA</td>
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<tr>
<td>Brett W. Cox, MD</td>
<td>Northwell Health</td>
<td>New Hyde Park, NY</td>
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<tr>
<td>Juanita M. Crook, MD, FRCPC</td>
<td>BC Cancer Agency</td>
<td>Kelowna, British Columbia</td>
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<tr>
<td>Adam M. Cunha, PhD</td>
<td>UCSF Comprehensive Cancer Center</td>
<td>San Francisco, CA</td>
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<tr>
<td>Laurie W. Cuttino, MD</td>
<td>Virginia Commonwealth University</td>
<td>Medical College of Virginia</td>
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<tr>
<td>Antonio Damato, PhD</td>
<td>Memorial Sloan-Kettering Cancer Center</td>
<td>Boston, MA</td>
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<tr>
<td>Brian J. Davis, MD, PhD</td>
<td>Mayo Clinic</td>
<td>Rochester, NY</td>
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<tr>
<td>Rupak Das, PhD</td>
<td>University of Wisconsin</td>
<td>Madison, WI</td>
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<tr>
<td>Thomas DeLaney, MD</td>
<td>Massachusetts General Hospital</td>
<td>Boston, MA</td>
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<tr>
<td>D. Jeffrey Demanes, MD</td>
<td>UCLA Radiation Oncology</td>
<td>Los Angeles, CA</td>
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<tr>
<td>Mohamed A. Elshaikh, MD</td>
<td>Henry Ford Hospital</td>
<td>Detroit, MI</td>
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<tr>
<td>Beth Erickson, MD, FACR, FASTRO</td>
<td>Medical College of Wisconsin</td>
<td>Milwaukee, WI</td>
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<tr>
<td>Jonathan Feddock, MD</td>
<td>University of Kentucky Chandler</td>
<td>Lexington, KY</td>
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<tr>
<td>Christine M. Fisher, MD, MPH</td>
<td>University of Colorado Denver</td>
<td>Aurora, CO</td>
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<tr>
<td>Steven J. Frank, MD</td>
<td>MD Anderson Cancer Center</td>
<td>Houston, TX</td>
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<tr>
<td>Jennifer S. Gass, MD</td>
<td>Women &amp; Infants Hospital</td>
<td>Providence, RI</td>
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<tr>
<td>Matt Giles, MSc</td>
<td>Winship Cancer Institute/Emory University</td>
<td>Atlanta, GA</td>
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<tr>
<td>Chandan Guha, MD, PhD</td>
<td>Montefiore Medical Center</td>
<td>Bronx, NY</td>
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<tr>
<td>Thomas Harris, PhD</td>
<td>Brigham and Women's Hospital</td>
<td>Boston, MA</td>
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<tr>
<td>Louis Harrison, MD, FASTRO</td>
<td>Moffitt Cancer Center</td>
<td>Tampa, FL</td>
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<tr>
<td>William Hartsell, MD, FACR, FACRO</td>
<td>Northwestern Medicine</td>
<td>Chicago Proton Center</td>
</tr>
<tr>
<td>Jaroslaw T. Hapel, MD</td>
<td>Rhode Island Hospital/Brown University</td>
<td>Providence, RI</td>
</tr>
</tbody>
</table>
2017 Annual Meeting Faculty

I-Chow Hsu, MD  
UCSF Comprehensive Cancer Center  
San Francisco, CA

Ashesh B. Jani, MD, MSEE  
Emory University  
Atlanta, GA

Anuja Jhingran, MD  
MD Anderson Cancer Center  
Houston, TX

Shruti Jolly, MD  
University of Michigan Medical Center  
Ann Arbor, MI

Mitch Kamrava, MD  
Cedars-Sinai Medical Center  
Los Angeles, CA

Robert S. Kaplan  
Harvard Business School  
Boston, MA

Mira Keyes, MD,FRCPC  
BC Cancer Agency  
Vancouver, British Columbia | Canada

Atif Khan, MD  
Rutgers Cancer Institute of New Jersey  
New Brunswick, NY

Adam F. Kibel, MD  
Brigham and Women’s Hospital  
Boston, MA

Elizabeth A. Kidd, MD  
Stanford Cancer Center  
Stanford, CA

Martin King, MD, PhD  
Brigham and Women’s Hospital  
Boston, MA

Ann Klopp, MD, PhD  
MD Anderson Cancer Center  
Dallas, TX

Michael Kuettel, MD, PhD, MBA  
Roswell Park Cancer Institute  
Buffalo, NY

Larissa J. Lee, MD  
Dana-Farber/Brigham and Women’s Cancer Center  
Boston, MA

W. Robert Lee, MD,MS,MEd  
Duke University Medical Center  
Durham, NC

Kara L. Leonard, MD  
Rhode Island Hospital  
Providence, RI

Stefan Machtens, MD  
MarienKrankenhaus Bergisch-Gladbach | Germany

Stephanie Markovina, MD, PhD  
Washington University in St Louis  
Saint Louis, MO

Jyoti S. Mayadev, MD  
University of California Davis  
Sacramento, CA

Andrea B. McKee, MD  
Lahey Clinic  
Amesbury, MA

Patrick W. McLaughlin, MD  
University of Michigan/Providence Cancer Center  
Novi, MI

Christopher Melhus, PhD  
Tufts Medical Center  
Boston, MA

Loren K. Mell, MD  
UCSD Moores Cancer Center  
La Jolla, CA

Cynthia Menard, MD  
CHUM - Hôpital Notre-Dame - Pavillon Lachapelle  
Montreal, Quebec | Canada

Pranshu Mohindra, MD, MBBS, DABR  
University of Maryland  
Baltimore, MD

Kathleen N. Moore, MD  
Peggy and Charles Stephenson Cancer Center  
Oklahoma City, OK

Zach Morris, MD, PhD  
University of Wisconsin  
Madison, WI

Gerard C. Morton, MD  
Sunnybrook Odette Cancer Centre  
Toronto, Ontario | Canada

Firas Mourtada, PhD, DABR, FAAPM  
Christiana Care Health System  
Newark, DE

Herb Niemeiow  
Elsevier  
New York City, NY

Desmond O’Farrell, MSc  
Dana-Farber/Brigham and Women’s Cancer Center  
Boston, MA

Peter F. Orio, III, DO, MS  
Dana-Farber/Brigham and Women’s Cancer Center  
Boston, MA

Zoubir Ouhib, MS, FACR, DABR  
Lynn Cancer Institute  
Delray Beach, FL

Sean Park, MD, PhD  
Mayo Clinic  
Rochester, NY

Pretesh Patel, MD  
Emory University  
Atlanta, GA

Daniel G. Петюрет, MD, FASTRO  
Rapid City Regional Hospital  
Rapid City, SD

Louis Potters, MD, FACR  
North Shore - Long Island Jewish Health System  
Lake Success, NY
2017 Annual Meeting Faculty

Allison Powers, MSc
Mount Sinai Hospital
New York City, NY

Ivy A. Petersen, MD
Mayo Clinic
Rochester, MN

Bradley R. Prestidge, MD, MS
Bon Secours Cancer Institute
Norfolk, VA

Thomas J. Pugh, MD
University of Colorado Denver
Aurora, CO

Sara Rahnema, MS
Emory Saint Joseph’s Hospital
Atlanta, GA

Abram Recht, MD, FASTRO
Beth Israel Deaconess Medical Center
Boston, MA

Mark J. Rivard, PhD, FAAPM
Tufts University School of Medicine
Boston, MA

Mack Roach, MD, FACR
UCSF Comprehensive Cancer Center
San Francisco, CA

Jessica B. Robbins, MD
University of Wisconsin
Madison, WI

Peter J. Rossi, MD
Emory University School of Medicine
Winship Cancer Institute
Atlanta, GA

Jason Rownd, MS
Medical College of Wisconsin
Milwaukee, WI

Marty G. Sanda, MD
Emory University School of Medicine
Atlanta, GA

Parag R. Sanghvi, MD, MSPH
University of California San Diego
La Jolla, CA

Daniel J. Scanderbeg, PhD
University of California San Diego Medical Center
La Jolla, CA

Chirag S. Shah, MD
Cleveland Clinic
Cleveland, OH

Simona Shaitelman, MD, Ed.M
MD Anderson Cancer Center
Houston, TX

Timothy Showalter, MD, MPH
The University of Virginia
Charlottesville, VA

Richard G. Stock, MD
Mount Sinai Medical Center
New York City, NY

Clare C. Tempany, MD
Harvard Medical School
Boston, MA

Bruce Thomadsen, PhD
University of Wisconsin
Madison, WI

Dorin Todor, PhD
Virginia Commonwealth University Health System
Richmond, VA

Aradhana M. Venkatesan, MD
MD Anderson Cancer Center
Houston, TX

Javier Vijande, PhD
University of Valencia
Burjassot | Spain

Akila N. Viswanathan, MD, MPH
Johns Hopkins Medicine
Baltimore, MD

David E. Wazer, MD, FCR, FACRO
Tufts and Brown University
Boston, MA

Jessica L. Wobb, MD
The Ohio State University
Columbus, OH

Cate Yashar, MD, FACRO
University of California, San Diego
La Jolla, CA

Anamaria Yeung, MD
University of Florida
Gainesville, FL

Michael Zelefsky, MD
Memorial Sloan-Kettering Cancer Center
New York City, NY

Jacqueline E. Zoberi, PhD
Washington University School of Medicine
Saint Louis, MO
ABS Inaugural Class of Fellows

The Board of Directors of the American Brachytherapy Society congratulates the inaugural Class of ABS Fellows (FABS). This is a significant designation bestowed by the ABS, and is a tribute to the following recipients for their contributions and accomplishments in the field of brachytherapy.

Douglas W. Arthur, MD
Juanita M. Crook, MD, FRCPC
Brian J. Davis, MD, PhD
Beth A. Erickson, FACP, FASTRO
Basil S. Hilaris, MD, FACRO, FACP
Erick M. Horwitz, MD
W. Robert Lee, MD, MS, MEd
Alvaro A. Martinez, MD, FACP
Gregory S. Merrick, MD
Subir Nag, MD, FACP, FACRO
Bradley R. Prestidge, MD, MS
Frank A. Vicini, MD, FACP
David E. Wazer, MD, FACP

ABS Resident Travel Grant Recipients

Sponsored by:

Theragenics Corporation

Prashant Gabani, MD
Washington University School of Medicine
Long-Term Outcomes of Accelerated Partial Breast Irradiation via Multi-Catheter Interstitial HDR Brachytherapy

Scott M. Glaser, MD
University of Pittsburgh
Image Based Brachytherapy with MRI-Based Planning in the Treatment of Cervical Cancer: A Single Institution Outcome Analysis of 220 Patients

John V. Hedge, MD
UCLA Medical Center
Pre-Treatment MRI Staging Predicts for Biochemical Failure in High-Risk Prostate Cancer Treated with Combination High-Dose-Rate Brachytherapy and External Beam Radiotherapy

Raymond Mailhot, MD, MPH
New York University Langone Medical Center
Factors Associated with Willingness to Invest in a New HDR Isotope

Neil K. Taunk, MD
Memorial Sloan-Kettering Cancer Center
Preliminary Clinical Experience from a Phase I Feasibility Study of a Novel Permanent Unidirectional Intraoperative Brachytherapy Device

Speaker Ready Room

For uploading your presentations, Federal Complex will serve as the Speaker Ready Room. You must upload your presentation at least two hours prior to presenting.
2017 Annual Meeting Mobile App

Get conference updates, schedules, abstracts, maps, and more conveniently on your smartphone or tablet!

**Download Instructions**

- Scan the QR code above to snap the ABS Conference App onto your smartphone or tablet.

- If you haven’t done so already, download a QR code reader or Barcode Scanner app for free from the iTunes App Store, the Google Play Android store, or Blackberry’s App World. We really like the “i-nigma” reader from 3GVision: just search for “i-nigma” in any of the stores to access the free download.

- Next, open the app and center the camera on the QR code (below). The ABS app will launch automatically in your browser.

- To install the app on your phone, use “Add to home screen” on iPhone and Blackberry; for Android, use the “bookmark” function and save the bookmark to the home screen.

Alternatively, type [https://crowd.cc/s/zvvm](https://crowd.cc/s/zvvm) into the browser on your smartphone to access.
# ABS 2017 Annual Meeting Agenda

## THURSDAY  
**APRIL 20, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00 am – 5:30 pm</td>
<td><strong>Registration</strong></td>
<td>Atrium Lobby</td>
</tr>
<tr>
<td>7:30 am – 8:00 am</td>
<td><strong>Continental Breakfast</strong></td>
<td>Salon A/B/C</td>
</tr>
<tr>
<td>7:30 am – 7:00 pm</td>
<td><strong>Commercial Exhibits</strong></td>
<td>Salon A/B/C</td>
</tr>
<tr>
<td>7:55 am – 8:00 am</td>
<td><strong>Welcome</strong></td>
<td>Salon D/E</td>
</tr>
</tbody>
</table>
| 8:00 am – 9:00 am  | **SELF-ASSESSMENT MODULE CREDIT COURSE**  
**Prostate Session I: Efficacy of LDR & HDR Prostate Brachytherapy: Low to High Risk Disease** | Salon D/E |
| **Moderator:**     | Steven J. Frank, MD            | MD Anderson Cancer Center | Houston, TX |
| **Speakers:**      | **Summary of Phase II/III Data**  
Thomas J. Pugh, MD  
UC Denver | Aurora, CO |
|                    | **Minimization of Toxicities & Advance Imaging & Targeting**  
Steven J. Frank, MD  
MD Anderson Cancer Center | Houston, TX |
|                    | **The Role of PB & ADT in 2017**  
Mira Keyes, MD, FRCPC  
BC Cancer Agency | Vancouver, BC |
<p>| 8:00 am – 9:00 am  | <strong>Scientific Session: GYN Proffered Papers</strong>  | Amphitheater |
| <strong>Moderators:</strong>    | Mohamed A. Elshaikh, MD        | Henry Ford Hospital | Detroit, MI |
|                    | Anamaria Yeung, MD             | University of Florida College of Medicine | Gainesville, FL |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00 am – 10:00 am</td>
<td><strong>Scientific Session: Prostate Proffered Papers I</strong></td>
<td>Salon D/E</td>
</tr>
</tbody>
</table>
| Moderators:  | Gerard C. Morton, MD  
Sunnybrook Odette Cancer Centre | Toronto, ON       |
|              | Bradley R. Prestidge, MD, MS  
Bon Secours Cancer Institute | Virginia Beach, VA |
| 9:00 am – 10:00 am | **SELF-ASSESSMENT MODULE CREDIT COURSE**                              | Amphitheater      |
|              | **GYN Session I: Vaginal Brachytherapy in Endometrial Cancer:**  
Refrining the Indications & Defining the Target |                  |
| Moderator:   | Anuja Jhingran, MD  
MD Anderson Cancer Center | Houston, TX       |
| Speakers:    | **Combinations with Chemotherapy**  
Jonathan Feddock, MD  
University of Kentucky | Lexington, KY     |
|              | **Dose and Technique**  
Larissa J. Lee, MD  
Dana-Farber/Brigham and Women's Cancer Center | Boston, MA        |
|              | **Guidelines on Recurrent Endometrial Cancer**  
Mitch Kamrava, MD  
Cedars-Sinai Medical Center | Los Angeles, CA   |
| 10:00 am – 10:30 am | **Refreshment Break**                                                | Salon A/B/C       |
| 10:30 am – 11:30 am | **SELF-ASSESSMENT MODULE CREDIT COURSE**                              | Salon D/E         |
|              | **Skin Session I: Multi-Disciplinary Care of Skin Cancer**            |                  |
| Moderator:   | Ajay Bhatnagar, MD, MBA  
21st Century Oncology | Chandler, AZ      |
| Speakers:    | Zoubir Ouhib, MS, DABR  
Lynn Cancer Institute | Boca Raton, FL    |
|              | Parag R. Sanghvi, MD, MSPH  
University of California San Diego | La Jolla, CA    |
| 10:30 am – 11:30 am | **SELF-ASSESSMENT MODULE CREDIT COURSE**                              | Amphitheater      |
|              | **Breast Session I: Novel Applications of Breast Brachytherapy**     |                  |
| Moderator:   | Jaroslaw T. Hepel, MD  
Rhode Island Hospital/Brown University | Providence, RI    |
| Speakers:    | **New Catheters**  
Bethany M. Anderson, MD  
University of Wisconsin Hospitals & Clinics | Madison, WI       |
|              | **Intraoperative Usage of Catheters**  
Sean Park, MD, PhD  
Mayo Clinic | Rochester, MN         |
### 2017 Annual Meeting Agenda | Thursday, April 20th | Breast Session I (SAM)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:30 am-12:30 pm</td>
<td>Resident Luncheon (Residents Only)</td>
<td>Skyline</td>
</tr>
<tr>
<td>11:30 am-12:30 pm</td>
<td>Lunch Symposium: Brachytherapy in the Era of Value-Based Care</td>
<td>Lighthouse</td>
</tr>
<tr>
<td>11:30 am-12:30 pm</td>
<td>Lunch Symposium: Advances in Radiation Therapy (ART)</td>
<td>Cityview 2</td>
</tr>
<tr>
<td>12:30 pm – 1:30 pm</td>
<td>Physics Session I: Workflow Optimization to Increase The Value of Brachytherapy</td>
<td>Amphitheater</td>
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</tbody>
</table>

**Speakers:**

**Non-invasive Image-guided Breast Brachytherapy (NIBB)**  
Kara L. Leonard, MD  
Rhode Island Hospital | Providence, RI

**Hypofractionated APBI**  
Atif Khan, MD  
Rutgers Cancer Institute of New Jersey | New Brunswick, NJ

**Residents:**

**Physics Session I: Workflow Optimization to Increase The Value of Brachytherapy**

**Moderators:**  
Adam M. Cunha, PhD  
UCSF Comprehensive Cancer Center | San Francisco, CA  
Daniel J. Scanderbeg, PhD  
University of California San Diego | San Diego, CA

**Speakers:**

**Executing an Efficient HDR Brachytherapy Workflow That Incorporates a Wide Range of Disease Sites**  
Albert J. Chang, MD, PhD  
University of California San Francisco | San Francisco, CA

**Making Brachytherapy Great Again: A Bipartisan Approach to Brachytherapy Workflow Optimization**  
Daniel J. Scanderbeg, PhD  
University of California San Diego | San Diego, CA

**Process Improvement for the Safe Delivery of Multidisciplinary-Executed Treatments: A Case in Y-90 Microspheres Therapy**  
Jacqueline E. Zoberi, PhD  
Washington University School of Medicine | Saint Louis, MO
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
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</table>
| 12:30 pm – 2:00 pm | SELF-ASSESSMENT MODULE CREDIT COURSE  
Miscellaneous Session I: Immunotherapy and Brachytherapy | Salon D/E         |
| Moderator:   | Chandan Guha, MD, PhD  
Montefiore Medical Center | Bronx, NY         |
| Speakers:    | Immunotherapy: Overview  
Sean Park, MD, PhD  
Mayo Clinic | Rochester, MN        |
|              | Immunotherapy and RT Clinical Trials  
Zach Morris, MD  
University of Wisconsin Madison | Madison, WI       |
|              | Immunotherapy and Brachytherapy: Opportunities Ahead in HDR/PDR/LDR  
Stephanie Markovina, MD, PhD  
Washington University in St. Louis | Saint Louis, MN   |
|              | Incorporating immune Responses into Radiobiology Models  
Firas Mourtada, PhD, DABR, FAAPM  
Christiana Care Health System | Newark, DE        |
| 1:30 pm – 2:30 pm | SELF-ASSESSMENT MODULE CREDIT COURSE  
Physics Session II: Image Verification During Treatment Delivery & Catheter Tracking for Dose Verification | Amphitheater      |
| Moderators:  | Luc Beaulieu, PhD  
Hotel-Dieu De Quebec, CHUQ | Quebec City, QC   |
|              | Antonio Damato, PhD  
Memorial Sloan-Kettering | New York, NY      |
| Speakers:    | Treatment Verification in Brachytherapy  
Antonio Damato, PhD  
Memorial Sloan Kettering | New York, NY      |
|              | Image Verification I: 2D Imaging, CBCT and CT at the Time of Treatment  
Dorin Todor, PhD  
Virginia Commonwealth University Health System | Richmond, VA      |
|              | Image Verification II: Use of MR in Conjunction with Brachytherapy Treatments  
Cynthia Menard, MD  
CHUM - Hôpital Notre-Dame - Pavillon Lachapelle | Montreal, QC      |
|              | Tracking for Treatment Verification  
Luc Beaulieu, PhD  
Hotel-Dieu De Quebec, CHUQ | Quebec City, QC   |
| 2:00 pm – 3:30 pm | Miscellaneous Session II: MRI Brachytherapy: GYN & Prostate | Salon D/E         |
| Moderator:   | Kristin A. Bradley, MD  
University of Wisconsin | Madison, WI       |
### Speakers:

(continued)

- **MRI Pelvic Anatomy: GYN**
  - Aradhana M. Venkatesan, MD
  - MD Anderson Cancer Center | Houston, TX

- **MRI Pelvic Anatomy: Prostate**
  - Clare C. Tempany, MD
  - Harvard Medical School | Boston, MA

- **MRI Functional Anatomy**
  - Patrick W. McLaughlin, MD
  - University of Michigan - Providence Cancer Center | Novi, MI

- **MRI Protocols and Sequences for Brachytherapy: Guidelines for Practitioners**
  - Rupak Das, PhD
  - University of Wisconsin | Madison, WI

- **Starting MRI-Based Brachytherapy**
  - Kristin A. Bradley, MD
  - University of Wisconsin | Madison, WI

- **Improvement in Outcomes with MRI-Based Brachytherapy**
  - Pranshu Mohindra, MD, MBBS, DABR
  - University of Maryland | Baltimore, MD

### Schedule

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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tr>
<td>2:30 pm – 3:30 pm</td>
<td><strong>Scientific Session: Physics Proffered Papers</strong></td>
<td>Amphitheater</td>
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<tr>
<td><strong>Moderators:</strong></td>
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<td></td>
<td>Mark J. Rivard, PhD, FAAPM</td>
<td>Tufts University School of Medicine</td>
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<td>Javier Vijande, MD</td>
<td>University of Valencia</td>
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<tr>
<td>3:30 pm – 4:00 pm</td>
<td><strong>Refreshment Break</strong></td>
<td>Salon A/B/C</td>
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<tr>
<td>4:00 pm – 5:00 pm</td>
<td><strong>Scientific Session: Miscellaneous Proffered Papers</strong></td>
<td>Salon D/E</td>
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<td><strong>Moderators:</strong></td>
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<td></td>
<td>Donald Cannon, MD</td>
<td>University of Utah</td>
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<td>Pranshu Mohindra, MD, MBBS, DABR</td>
<td>University of Maryland</td>
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<tr>
<td>4:00 pm – 6:00 pm</td>
<td><strong>Workshops</strong></td>
<td>GYN: Harborview 2</td>
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<tr>
<td><strong>GYN Contouring:</strong></td>
<td>Laptops provided by: Elekta</td>
<td>Workshop Moderators: Sushil Beriwal, MD</td>
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<tr>
<td><strong>Circulators:</strong></td>
<td>Sushil Beriwal, MD</td>
<td>Beth Erickson, MD</td>
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<tr>
<td><strong>Contouring (Vagina):</strong></td>
<td>Sushil Beriwal, MD</td>
<td>Catheryn Yashar, MD</td>
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workshops continued on following page
### Prostate Contouring:

**Laptops provided by:**

![VARIAN Medical Systems Logo]

**Workshop Moderator:** Juanita Crook, MD

**Circulators:**
- Brett Cox, MD
- Brian Davis, MD
- Matt Giles, MSc
- Mira Keyes, MD
- Peter Orio, III, DO
- Sara Rahnema, PhD
- Peter Rossi, MD

**Contouring:**
- TRUS: Gerard Morton, MD
- CT: Juanita Crook, MD
- MRI: Patrick McLaughlin, MD

### Skin Workshop:

**Workshop Moderator:** Phillip Devlin, MD

**Circulators:**
- Michele Albert, MD
- Ajay Bhatnagar, MD
- Mandar Bhagwat, PhD
- Ivan Buzurovic, PhD

**Contouring:**
- Thomas Harris, PhD
- Martin King, MD
- Desmond O’Farrell, MSc

### Scientific Session: Physics Snap Orals

**Moderators:**
- Facundo Ballester, PhD
- University of Valencia | Burjassot, Spain
- Christopher S. Melhus, PhD
- Tufts Medical Center | Boston, MA

### How to Publish a Paper: An Introductory Workshop

**Speakers:**
- Herb Niemirow
  - Elsevier | New York, NY
- Michael J. Zelefsky, MD
  - Memorial Sloan-Kettering Cancer Center | New York, NY

### Welcome Reception & Poster Walk with Exhibits

**Welcome Reception & Poster Walk with Exhibits**

**Salon A/B/C**

### Varian Educational Reception

**Varian Educational Reception**

**Plaza B/C Ballroom**

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**FRIDAY APRIL 21, 2017**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>7:00 am – 5:45 pm</td>
<td><strong>Registration</strong></td>
<td>Atrium Lobby</td>
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<td>7:30 am – 8:00 am</td>
<td><strong>Continental Breakfast</strong></td>
<td>Salon A/B/C</td>
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<td><strong>Sponsored by:</strong> BARD</td>
<td>MEDICAL</td>
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<td>7:30 am – 5:00 pm</td>
<td><strong>Commercial Exhibits</strong></td>
<td>Salon A/B/C</td>
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<tr>
<td>7:55 am – 8:00 am</td>
<td><strong>Daily Recap</strong></td>
<td>Salon D/E</td>
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### Prostate Session I: Comparing Outcomes Effectiveness Research (CER) in Prostate Cancer Care

**Moderator:** Peter F. Orio, III, DO, MS  
Dana-Farber/Brigham and Women's Cancer Center | Boston, MA

**Speakers:**
- **The Right Fit – Pros/Cons of Surgery and Brachytherapy: A Urologist's Perspective**  
  Adam S. Kibel, MD  
  Dana-Farber/Brigham and Women's Cancer Center | Boston, MA
- **Percentage of Surgical Patients Who Require Salvage RT, Cost and Toxicities**  
  Louis Potters, MD, FACR  
  North Shore – Long Island Jewish Health System | Lake Success, NY
- **Active Surveillance in 2017**  
  Martin G. Sanda, MD  
  Emory University School of Medicine | Atlanta, GA

### GYN Session I: The Next Generation of MR Guidance for Cervical Cancer Brachytherapy

**Moderators:**
- Sushil Beriwal, MD  
  University of Pittsburgh | Pittsburgh, PA
- Christine M. Fisher, MD, MPH  
  University of Colorado Denver | Aurora, CO

**Speakers:**
- **Novel Imaging Approaches**  
  Jessica B. Robbins, MD  
  University of Wisconsin | Madison, WI
- **Intraoperative Imaging**  
  Akila N. Viswanathan, MD, MPH  
  Johns Hopkins Medicine | Baltimore, MD
- **Dose Constraints**  
  Junzo P. Chino, MD  
  Duke University Medical Center | Durham, NC

### Scientific Session: GYN Proffered Papers II

**Moderators:**
- Ann Klopp, MD, PhD  
  MD Anderson Cancer Center | Houston, TX
- Stephanie Markovina, MD, PhD  
  Washington University in St. Louis | Saint Louis, MO

### Socioeconomic Session I: A Primer on Payment: Why Defining Value in Brachytherapy is All Relative

**Moderator:** Peter F. Orio, III, DO, MS  
Dana-Farber/Brigham and Women's Cancer Center | Boston, MA
### 2017 Annual Meeting Agenda | Friday, April 21st | Socioeconomic Session I (SAM)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>10:00 am – 10:15 am</td>
<td>Refreshment Break</td>
<td>Salon A/B/C</td>
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<tr>
<td>10:15 am – 10:45 am</td>
<td>Presidential Address</td>
<td>Salon D/E</td>
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<td>10:45 am – 11:00 am</td>
<td>ABS Induction of Inaugural Class of Fellows</td>
<td>Salon D/E</td>
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<tr>
<td>11:00 am – 12:00 pm</td>
<td>Keynote Address</td>
<td>Salon D/E</td>
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<tr>
<td>12:00 pm – 1:45 pm</td>
<td>ABS Members Lunch &amp; Annual Business Meeting</td>
<td>Cityview</td>
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<td>(Event for ABS Members Only)</td>
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<tr>
<td>1:45 pm – 3:00 pm</td>
<td>Plenary Session: Top Four Abstracts</td>
<td>Salon D/E</td>
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<tr>
<td>3:00 pm – 3:30 pm</td>
<td>ABS Henschke Award (No CME credit offered)</td>
<td>Salon D/E</td>
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<tr>
<td>3:30 pm – 4:30 pm</td>
<td>Scientific Session: Socioeconomic Proffered Papers</td>
<td>Amphitheater</td>
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#### Speakers: (continued)
- William Hartsell, MD, FACR, FACRO
  Northwestern Medicine, Chicago Proton Center | Chicago, IL
- Michael Kuettel, MD, PhD, MBA
  Rosewell Park Cancer Institute | Buffalo, NY
- Steven J. Frank, MD
  President, ABS
- Douglas W. Arthur, MD
- Juanita M. Crook, MD, FRCPC
- Brian J. Davis, MD, PhD
- Beth A. Erickson, FACP, FASTRO
- Basil S. Hilaris, MD, FACRO, FACR
- Erick M. Horwitz, MD
- W. Robert Lee, MD, MS, MEd
- Alvaro A. Martinez, MD, FACR
- Gregory S. Merrick, MD
- Subir Nag, MD, FACR, FACRO
- Bradley R. Prestidge, MD, MS
- Frank A. Vicini, MD, FACR
- David E. Wazer, MD, FACR
- Robert S. Kaplan
  Harvard Business School | Boston, MA
- Judith Stitt Awards

#### Sponsored by:
- Theragenics Corporation
- Elekta
- TeamBest
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<tr>
<th>Time</th>
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<th>Location</th>
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</table>
| 3:30 pm – 4:30 pm| **SELF-ASSESSMENT MODULE CREDIT COURSE**  
  Physics Session III: Value of MRI for Brachytherapy  
  – From Simulation to Delivery  
  **Moderators:**  
  Robert A. Cormack, PhD  
  Brigham & Women's Hospital | Salon D/E                      |
|                  | Firas Mourtada, PhD  
  DABR, FAAPM  
  Christiana Care Health System  
  **Speakers:**  
  Workflows for the Integration of MRI into Gynecologic HDR Brachytherapy: A Practical Guide  
  Antonio Darnato, PhD  
  Memorial Sloan-Kettering Cancer Center  
  New York, NY  
  Workflows for the Integration of MRI into Prostate HDR Brachytherapy: A Practical Guide  
  Deidre Batchelar, PhD, FCCPM  
  British Columbia Cancer Agency  
  Centre for Southern Interior  
  Kelowna, BC  
  A Pragmatic Approach to MRI Integration in the LDR Prostate Brachytherapy Workflow  
  Pierre Blanchard, MD  
  Proton Therapy Center  
  Houston, TX |                                  |
| 4:00 pm – 6:00 pm| **Workshops**  
  **GYN Contouring:**  
  Laptops provided by: Elekta  
  Workshop Moderators: Beth Erickson, MD  
  Akila Viswanathan, MD  
  Circulators:  
  Sushil Beriwal, MD  
  Mitchell Kamrava, MD  
  Joyti Mayadev, MD  
  Jason Rownd, MS  
  Catheryn Yashar, MD  
  Contouring (Cervix):  
  Beth Erickson, MD  
  Akila Viswanathan, MD  
  **Prostate Contouring:**  
  Laptops provided by: Varian Medical Systems  
  Workshop Moderator: Juanita Crook, MD  
  Circulators:  
  Brett Cox, MD  
  Brian Davis, MD  
  Matt Giles, MSc  
  Mira Keyes, MD  
  Peter Orio, III, DO  
  Sara Rahnema, PhD  
  Peter Rossi, MD  
  Contouring:  
  TRUS: Gerard Morton, MD  
  CT: Juanita Crook, MD  
  MRI: Patrick McLaughlin, MD  
  **Skin Workshop:**  
  Workshop Moderator: Phillip Devlin, MD  
  Circulators:  
  Michele Albert, MD  
  Ajay Bhatnagar, MD  
  Mandal Bhagwat, PhD  
  Ivan Buzurovic, PhD  
  Thomas Harris, PhD  
  Martin King, MD  
  Desmond O’Farrell, MSc | Harborview 2 | Harborview 1 | Harborview 3 |
| 4:30 pm – 4:45 pm| **Refreshment Break**  
  Saloon A/B/C |
4:45 pm – 5:45 pm  SELF-ASSESSMENT MODULE CREDIT COURSE
Medical Events and Patient Safety: Updates, Reporting, Prevention, & Lessons Learned

**Moderator:** Zoubir Ouhib, MS, FACP, DABR
Lynn Cancer Institute of Boca Raton Regional Hospital | Boca Raton, FL

**Speakers:**
- **NRC Updates on Proposed Rules for Medical Event**
  Katherine Tapp, PhD
  Nuclear Regulatory Commission | Bethesda, MD
- **Medical Event Reporting**
  Zoubir Ouhib, MS, FACP, DABR
  Lynn Cancer Institute of Boca Raton Regional Hospital | Boca Raton, FL
- **Prevention of a Medical Event: The TG100 Approach**
  Bruce Thomadsen, PhD
  University of Wisconsin – Madison | Madison, WI
- **Improving Safety by Learning From Medical Events**
  Timothy Showalter, MD
  University of Virginia | Charlottesville, VA

5:45 pm – 6:45 pm  Scientific Session: Breast Snap Orals

**Moderators:**
- Elizabeth S. Bloom, MD
  MD Anderson Cancer Center | Houston, TX
- Chirag S. Shah, MD
  Cleveland Clinic | Akron, OH

5:45 pm – 6:45 pm  Scientific Session: Miscellaneous Snap Orals

**Moderators:**
- Michele Albert, MD
  Dana-Farber/Brigham and Women's Cancer Care | Boston, MA
- Bethany M. Anderson, MD
  University of Wisconsin Hospitals & Clinics | Madison, WI

6:45 pm – 8:30 pm  Elekta Educational Reception

**Saturday, April 22, 2017**

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

**7:30 am – 8:00 am**  Continental Breakfast
Salon A/B/C

**7:30 am – 11:00 am**  Commercial Exhibits
Salon A/B/C

**7:50 am – 8:00 am**  Daily Recap
Salon D/E
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am – 9:00 am</td>
<td><strong>Miscellaneous Session III: Sarcoma and Head &amp; Neck Brachytherapy – Alive or Dead?</strong></td>
<td>Salon D/E</td>
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<tr>
<td><strong>Moderator:</strong></td>
<td>D. Jeffrey Demanes, MD&lt;br&gt;UCLA</td>
<td>Los Angeles, CA</td>
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<tr>
<td><strong>Speakers:</strong></td>
<td><strong>Clinical Aspects of HDR Brachytherapy for Sarcomas</strong>&lt;br&gt;Thomas F. DeLaney, MD&lt;br&gt;Massachusetts General Hospital</td>
<td>Boston, MA&lt;br&gt;<strong>Physics of HDR Brachytherapy for Sarcomas</strong>&lt;br&gt;Jacqueline E. Zoberi, PhD&lt;br&gt;Washington University School of Medicine</td>
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<tr>
<td>8:00 am – 9:00 am</td>
<td><strong>Breast Session II: Defining the Value of Breast Brachytherapy in 2017</strong></td>
<td>Amphitheater</td>
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<tr>
<td><strong>Moderators:</strong></td>
<td>Laurie W. Cuttino, MD&lt;br&gt;Virginia Commonwealth University Medical College of Virginia</td>
<td>Richmond, VA&lt;br&gt;Simona F. Shaitelman, MD, Ed.M&lt;br&gt;MD Anderson Cancer Center</td>
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<td><strong>Speakers:</strong></td>
<td>Jennifer S. Gass, MD&lt;br&gt;Brown University</td>
<td>Boston, MA&lt;br&gt;Andrea B. McKee, MD&lt;br&gt;Lahey Clinic</td>
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<tr>
<td>9:00 am – 10:00 am</td>
<td><strong>SELF-ASSESSMENT MODULE CREDIT COURSE</strong>&lt;br&gt;<strong>Prostate Session III: New Developments in Assessment and Treatment of Recurrence Prostate Cancer Following Brachytherapy</strong></td>
<td>Salon D/E</td>
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<tr>
<td><strong>Moderator:</strong></td>
<td>Peter J. Rossi, MD&lt;br&gt;Emory University School of Medicine</td>
<td>Atlanta, GA</td>
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<tr>
<td><strong>Speakers:</strong></td>
<td><strong>Results from the ProBrachyDatabase Project</strong>&lt;br&gt;Stefan Machtens, MD&lt;br&gt;MarienKrankenhaus</td>
<td>Bergisch-Gladbach, Germany&lt;br&gt;<strong>Novel Imaging for Recurrent Disease</strong>&lt;br&gt;Ashesh B. Jani, MD&lt;br&gt;Emory University</td>
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<td>Time</td>
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<td>9:00 am – 10:00 am</td>
<td>Scientific Session: Breast Proffered Papers</td>
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<td>Peter Y. Chen, MD, FACR</td>
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<td>Beaumont Health System</td>
<td>Bloomfield, MI</td>
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<td>Jessica L. Wobb, MD</td>
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<td></td>
<td>The Ohio State University</td>
<td>Columbus, OH</td>
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<tr>
<td>10:30 am – 11:30 am</td>
<td>Scientific Session: Prostate Proffered Papers II</td>
<td>Salon D/E</td>
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<td><strong>Moderators:</strong></td>
<td>Brett W. Cox, MD</td>
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<td>Northwell Health</td>
<td>New Hyde Park, NY</td>
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<td>I-Chow Hsu, MD</td>
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<td>UCSF Comprehensive Cancer Center</td>
<td>San Francisco, CA</td>
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<td>10:30 am – 11:30 am</td>
<td>SELF-ASSESSMENT MODULE CREDIT COURSE</td>
<td>Amphitheater</td>
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<tr>
<td><strong>GYN Session III:</strong></td>
<td>Improving Outcomes in Locally Advanced Cervical Cancer with Systemic Therapy</td>
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<tr>
<td><strong>Moderator:</strong></td>
<td>Elizabeth A. Kidd, MD</td>
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<td>Stanford University</td>
<td>Stanford, CA</td>
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<tr>
<td><strong>Speakers:</strong></td>
<td>Evidence for Neoadjuvant and Adjuvant Therapy</td>
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<td>Kathleen N. Moore, MD</td>
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<td>University of Oklahoma Health Sciences Center</td>
<td>Oklahoma City, OK</td>
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<td>Immunotherapy</td>
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<td>Jyoti S. Mayadev, MD</td>
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<td>University of California Davis</td>
<td>Sacramento, CA</td>
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<td>Chemotherapy</td>
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<td>Loren K. Mell, MD</td>
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<td>UCSD Moores Cancer Center</td>
<td>La Jolla, CA</td>
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<tr>
<td>II:30 am – 12:30 pm</td>
<td>Scientific Session: Prostate Snap Orals</td>
<td>Salon D/E</td>
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<tr>
<td><strong>Moderators:</strong></td>
<td>Mira Keyes, MD, FRCPC</td>
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<td>BC Cancer Agency</td>
<td>Vancouver, BC</td>
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<td>Pretesh Patel, MD</td>
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<td>Emory University</td>
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<tr>
<td>11:30 am – 12:30 pm</td>
<td><strong>Scientific Session: GYN Snap Orals</strong></td>
<td>Amphitheater</td>
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<td><strong>Moderators:</strong></td>
<td>Shruti Jolly, MD</td>
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<td>University of Michigan Medical Center</td>
<td>Ann Arbor, MI</td>
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<td>Larissa J. Lee, MD</td>
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<td>Dana-Farber/Brigham and Women's Cancer Care</td>
<td>Boston, MA</td>
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<tr>
<td>12:30 pm</td>
<td><strong>2017 Annual Meeting Adjourns</strong></td>
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<tr>
<td>12:30 pm – 1:00 pm</td>
<td><strong>Lunch</strong> (attendees on their own)</td>
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<td>1:00 pm – 5:00 pm</td>
<td><strong>Prostate Implant Simulation Workshop</strong></td>
<td>Cityview 1</td>
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<td>(separate registration fee is required)</td>
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<tr>
<td>1:00 pm – 1:15 pm</td>
<td><strong>US, CT, MR Anatomy: Practical Principles</strong></td>
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<td></td>
<td>Patrick William McLaughlin, MD</td>
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<td></td>
<td>University of Michigan/Providence Cancer Center</td>
<td>Novi, MI</td>
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<tr>
<td>1:15 pm – 1:30 pm</td>
<td><strong>US Volume Study, Post-Implant Dosimetry</strong></td>
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<td></td>
<td>Steven J. Frank, MD</td>
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<td></td>
<td>MD Anderson Cancer Center</td>
<td>Houston, TX</td>
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<tr>
<td>1:30 pm – 1:45 pm</td>
<td><strong>Principles of Planning and Plan Selection, DVH</strong></td>
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<td>Juanita M. Crook, MD</td>
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<td></td>
<td>BC Cancer Agency</td>
<td>Kelowna, BC</td>
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<td>1:45 pm – 2:00 pm</td>
<td><strong>Outcomes and Principles of Quality Assurance in PB</strong></td>
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<td>Mira Keyes, MD, FRCPC</td>
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<td></td>
<td>BC Cancer Agency</td>
<td>Vancouver, BC</td>
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<tr>
<td>2:00 pm – 4:15 pm</td>
<td><strong>Implant Phantom Workshop</strong></td>
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<tr>
<td>4:15 pm – 4:30 pm</td>
<td><strong>Break</strong></td>
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<tr>
<td>4:30 pm – 4:45 pm</td>
<td><strong>Principles of Intra-operative Planning</strong></td>
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<td>Richard G. Stock, MD</td>
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<td></td>
<td>Mount Sinai Medical Center</td>
<td>New York, NY</td>
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<tr>
<td>4:45 pm – 5:00 pm</td>
<td><strong>Basic Physics of Brachytherapy</strong></td>
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<td>Firas Mourtada, PhD, DABR, FAAMP</td>
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<td></td>
<td>Christiana Care Health System</td>
<td>Newark, DE</td>
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<td></td>
<td>Allison Powers, MSc</td>
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<td>Mount Sinai Hospital</td>
<td>New York, NY</td>
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▷ 2017 LDR Brachytherapy Scholarship Program

2017 Ulrich Henschke Award
Thursday Lunch Symposium

2017 ABS Ancillary Meetings

Thursday, April 20th
Physics Committee
6:45 am – Congress Room

Thursday, April 20th
International Committee
6:45 am – Skyline Room

Friday, April 21st
Patient Safety
6:45 am – Congress Room
The American Brachytherapy Society was founded in 1978 to provide insight, rationale, and research into the use of brachytherapy in the treatment of both malignant and benign conditions. The organization consists of physicians, physicists, and other health care professionals interested in brachytherapy. The purpose of the ABS is to serve its members by advancing the field of brachytherapy, by promoting excellence in education, research and clinical practice, and by representing brachytherapy specialists and their patients. For more information on the ABS and a membership application, visit: www.americanbrachytherapy.org.

December 2–3, 2017
LDR/HDR Brachytherapy Education and Simulator Training Workshop
Westin River North | Chicago, IL

February 23–24, 2018
GYN School
Hyatt Regency Pier 66 | Ft. Lauderdale, FL

June 7–9, 2018
ABS Annual Conference
San Francisco Hilton Union Square | San Francisco, CA