



# WORLD CONGRESS OF BRACHYTHERAPY

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JUNE 27-29, 2016

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**FINAL PROGRAM**

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The World Congress of Brachytherapy 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.

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The World Congress of Brachytherapy is pending approval by the Commission on Accreditation of Medical Physicists Education programs (CAMPEP) of Category A continuing education credits.

The World Congress of Brachytherapy 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.

## 2016 World Congress of Brachytherapy 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 technique 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. Understand new imaging modalities and how this can impact brachytherapy**



# 2016 Awards

## 2016 Ulrich Henschke Award Recipient

### D. Jeffrey Demanes, MD, FACRO, FACR, FASTRO



D. Jeffrey Demanes completed training and was board certification in medical and radiation oncology in 1981. His enthusiasm for clinical procedures and his fellowship with Drs. Nisar Syed and Ajmal Puthawala inspired him to dedicate his career brachytherapy. Soon thereafter he became a loyal member of the American Brachytherapy Society. He founded California

Endocurietherapy (CET), the first practice in the United States devoted to solely to brachytherapy and learned many applicable techniques by scrubbing in with his surgical colleagues. He did low dose rate brachytherapy for 10 years at numerous hospitals in the San Francisco Bay Area and then opened a high dose rate (HDR) specialty center, which offered brachytherapy for every indication. Approximately 25,000 HDR treatments were delivered between 1991-2009.

He trained many physicians in the art of brachytherapy and hosted residents and physicians from Stanford (Henry Kaplan 2004 and Gold Nugget 2007 teaching awards) and many other centers. He created a database registry in 1991, which accumulated information on the approximately 5000 HDR patients treated at CET. From this database he collaborated with Dr. Alvaro Martinez and others to publish pioneering multi-institutional outcome studies on prostate and other cancers. He has given many invited lectures and published many articles on brachytherapy.

Dr. Demanes recognized the importance of contributing to organized medicine. He was the president of the American College of Radiation Oncology (ACRO) (Gold Medal award 2010), the chairman of the Healthcare Policy Committee of the American Society of Radiation Oncology (ASTRO), president of the American College of Radiology (ACR) Council of Region Radiation Oncology, Societies (CARROS), and a long-standing member of the ACR Clinical Advisory Committee (CAC). In all these things he brought the interests of brachytherapy to the attention of healthcare policy makers.

In 2010 he became Director of Brachytherapy at UCLA to train medical students, residents, and fellows, do outcomes research, and develop a center of excellence. He promoted the concepts of the synergism of interstitial brachytherapy coupled with HDR to achieve optimal dosimetry and maximum benefit for the patient. His vision for the future is more and better image guidance and the development of brachytherapy navigation for catheter insertion and treatment planning. Beginning in 2016 he became Professor Emeritus at UCLA where he continues to pursue brachytherapy interests with passion.

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## 2016 Marie-Curie Award

### Richard Pötter, MD



Richard Pötter started his professional career after graduation in 1975 in medicine from the University of Münster, Germany, with training in surgery and internal medicine (4 years) and became diagnostic radiologist and radiation oncologist. He obtained his academic degree on imaging in radiotherapy in 1989 which included “MRI simulation”, with first pioneer work also on MRI

in brachytherapy.

In 1993, Richard Pötter became Professor and Chairman of the Department of Radiation Oncology at the Medical University of Vienna, in the New Vienna General Hospital. With his team he promoted numerous developments in different areas of radiation oncology, with his main interest in image guided radiotherapy including particle therapy. He succeeded in implementation of MRI in brachytherapy in Vienna in 1998 with developing MRI based gynaecologic and prostate brachytherapy and EBRT. He was also active in endovascular brachytherapy in coronary and peripheral arteries with a consecutive series of 8 Vienna clinical trials.

For Richard Pötter MRI guided gynaecologic brachytherapy has finally become his major area of research and development, in Vienna and also in international networks, mainly through GEC ESTRO. In parallel to the development of MRI guided technology (including intracavitary and interstitial techniques) and its clinical implementation, a major breakthrough was the introduction of the adaptive target concept, the DVH reporting and the use of bio-effective modelling into gynaecologic brachytherapy together with Erik van Limbergen, Christine Haie-Meder, Christian Kirisits (GEC ESTRO Recommendations in 2005/2006). He coordinated the GYN GEC ESTRO network since 2005, first with Christian Kirisits and then with Kari Tanderup. Together with Jacob Lindegaard this was the initiating team of the EMBRACE study (2008-2015) ([www.embracestudy.dk](http://www.embracestudy.dk)). EMBRACE has become a strong clinical study and research group and recently started EMBRACE II. The Vienna group and various other groups including EMBRACE and Retro-EMBRACE collaborators have provided growing methodological, technological, dosimetric and clinical evidence for Image guided adaptive brachytherapy through numerous publications,

Richard Pötter has been continuously involved in clinical and academic education and training in Vienna and also abroad, for radiation oncology, for general brachytherapy (ESTRO Teaching Courses (1993-2008), GEC ESTRO Handbook of Brachytherapy 2002, 2014 ([www.estro.org](http://www.estro.org))) and gynaecologic brachytherapy (ESTRO Teaching Courses since 2004). Many fellows were trained, in particular in image guided gynaecologic brachytherapy and regular hands-on gynaecologic workshops have been set up in Vienna and abroad. He coordinated the committee for the “ICRU GEC ESTRO Report 89” on “Prescribing, Recording and Reporting Brachytherapy for Cancer of the Cervix” (1998-2016), since 2009 with C. Kirisits.

He was president of the European Brachytherapy Group GEC ESTRO (1999-2003), clinical editor in “Radiotherapy and Oncology” 2006-2014 and chairman of the ESTRO School 2006-2016 (ESTRO Education Committee).

## Resident Travel Grant Recipients

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### Dustin Boothe, MD

University of Utah  
Salt Lake City, UT

**The Decay of Brachytherapy Use in Tumors of the Oral Cavity: A Population-Based Patterns-of-Care and Outcomes Analysis from 1973 to 2012**

### Scott Glaser, MD

University of Pittsburgh  
Pittsburgh, PA

**The Declining Use of Brachytherapy Boost for Prostate Cancer Despite Associated Survival Advantage**

### Joelle Helou, MD

Odette Cancer Centre  
Toronto, Canada

**Low-Dose-Rate Brachytherapy versus. Standard Fractionated External Beam Radiotherapy versus. Stereotactic Body Radiotherapy for Low-Risk Prostate Cancer: A Cost-Utility Analysis**

### Andrew Orton, MD

University of Utah  
Salt Lake City, UT

**Brachytherapy Improves Survival in Primary Vaginal Cancer**

### Chiara Tenconi, PhD

Fondazione IRCCS  
Istituto Nazionale Dei Tumori  
Milan, Italy

**In Vivo Rectal Wall Dosimetry in Gynecological HDR Brachytherapy Using a Semi-Flexible Rectal Probe Provided with MOSkin Dosimeters**

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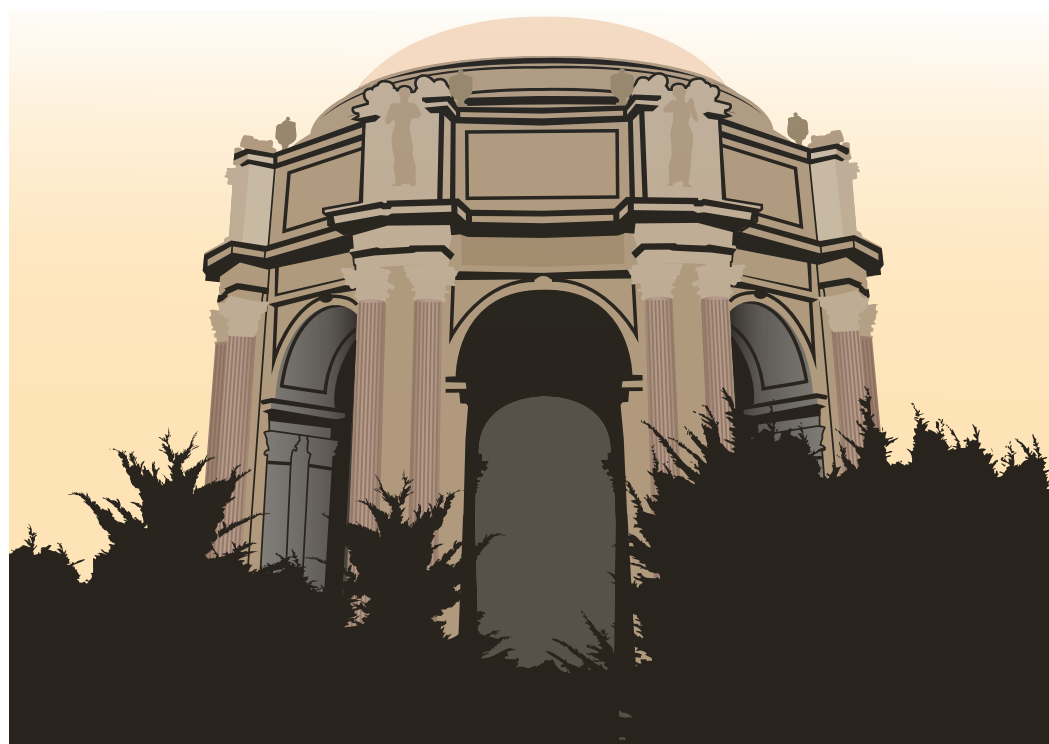
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Leiden, Netherlands

**Desmond A. O'Farrell, MSc**

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and Women's Cancer Center  
Boston, MA

**Tatsuya Ohno, MD**

Gunma University  
Gunma, Japan

**Zoubir Ouhib, MS, DABR**

Lynn Cancer Institute  
Delray Beach, FL

**Sang-June Park, PhD, DABR**

University of California Los Angeles  
Los Angeles, CA

**Bradley Pieters, MD, PhD**

Academic Medical Center/UVA  
Amsterdam, Netherlands

**Csaba Polgar, MD, PhD, MSc**

National Institute of Oncology  
Budapest, Hungary

**Jaganmohan Poli, MD**

Drexel University College of Medicine  
Philadelphia, PA



# Faculty

**Richard Pötter, MD**

Medical University of Vienna  
Vienna, Austria

**Bradley R. Prestidge, MD, MS**

Bon Secours Cancer Institute  
Norfolk, VA

**Thomas J. Pugh, MD**

UC Denver  
Aurora, CO

**Marie Lynn Racine, MD**

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**Alexandra Rink, PhD**

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**Mark J. Rivard, PhD, FAAPM**

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**C. Leland Rogers, MD**

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Milwaukee, WI

**Daniel J. Scanderbeg, PhD**

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San Diego, CA

**Sandra J. Sha, MD**

Central Florida Cancer Institute  
Orlando, FL

**Frank-Andre Siebert, PhD**

UK-SH, Campus Kiel/  
Clinic of Radiotherapy  
Kiel, Germany

**Ron S. Sloboda, PhD, FCCM**

Cross Cancer Institute  
Edmonton, AB Canada

**Daniel Y. Song, MD**

Johns Hopkins University  
Baltimore, MD

**William Y. Song, PhD**

Sunnybrook Health Sciences Centre  
Toronto, ON Canada

**Alexandra Joy Stewart, DM, MRCP, FRCR**

St Luke's Cancer Centre,  
Royal Surrey County Hospital  
Guilford, Surrey United Kingdom

**Richard Glenn Stock, MD**

Mount Sinai Medical Center  
New York, NY

**Vratislav Strnad, MD**

University Hospital Erlangen  
Erlangen, Bavaria Germany

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FFRCS, FRCR, FICS**

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Wirral, United Kingdom

**Jamema Swamidas, M.Sc, Dip. R.P.**

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Mumbai, Maharashtra India

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Cambridge, United Kingdom

**Kari Tanderup, PhD**

Aarhus University Hospital  
Aarhus, Denmark

**Johann I. Tang, MD, FRANZCR**

National Cancer Institute Singapore  
Singapore, Singapore

**Alexandra Taylor, MBBS, MRCP, FRCR, MD**

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London, United Kingdom

**Bruce Robert Thomadsen, PhD**

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Madison, WI

**Dorin A. Todor, PhD**

Virginia Commonwealth University  
Health System  
Richmond, VA

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Allegheny Health Network  
Pittsburgh, PA

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University of Hospital Gasthuisberg  
Leuven, Belgium

**Marco Van Vulpen, MD, PhD**

UMC Utrecht  
Utrecht, Netherlands

**Aradhana M. Venkatesan, MD**

MD Anderson Cancer Center  
Houston, TX

**Frank Andrea Vicini, MD, FACR**

21st Century Oncology  
Farmington, MI

**Celia Viegas, MD, PhD**

Instituto Nacional De Cancer, INCARJ  
Rio De Janeiro, Brazil

**Javier Vijande, PhD**

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Houston, TX

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Boston, MA

**John Ben Wilkinson, MD**

Willis-Knighton Medical Center  
Shreveport, LA

**Catheryn Yashar, MD, FACRO**

University of California, San Diego  
La Jolla, CA

**Yasuo Yoshioka, MD, PhD**

Osaka University Graduate School of  
Medicine  
Osaka, Japan

**Marco Zaider, PhD**

Memorial Sloan-Kettering Cancer Center  
New York, NY

**Michael J. Zelefsky, MD**

Memorial Sloan-Kettering Cancer Center  
New York, NY

**Fu-Quan Zhang, MD**

Peking Union Medical College Hospital  
Beijing, China



SUNDAY, JUNE 26, 2016

PHYSICS WORKSHOP ON TREATMENT VERIFICATION

7:00 am – 6:00 pm

**REGISTRATION** | Grand Ballroom Foyer

8:00 am

**WELCOME** | Grand Ballroom A

8:10 am – 9:10 am **Introduction to Treatment Verification** | Grand Ballroom A

**Moderator:** Firas Mourtada, PhD

Christiana Care Health System | Newark, DE

**Speakers:** **Comparing the Verification Worlds: EBRT and BT**

Kari Tanderup, PhD

Aarhus University Hospital | Aarhus, Denmark

**Treatment Errors in Brachytherapy**

Bruce R. Thomadsen, PhD

University of Wisconsin-Madison | Madison, WI

**Uncertainties in Brachytherapy**

Christian Kirisits, ScD

University of Vienna | Vienna, Austria

9:10 am – 10:45 am **In-Room Image Based Verification** | Grand Ballroom A

**Moderator:** Christian Kirisits, ScD

University of Vienna | Vienna, Austria

**Speakers:** **Introduction: On-Line and Off-Line Imaging: Possibilities and Limitations**

Dimos Baltas, PhD

University Medical Centre Freiburg | Freiburg, Germany

**Fluoroscopy**

Alexandra Rink, PhD

Princess Margaret Cancer Centre | Toronto, ON, Canada

**CBCT**

Oana Craciunescu, PhD

Duke University Medical Center | Durham, NC

**CT**

Firas Mourtada, PhD

Christiana Care Health System | Newark, DE

**MRI**

Astrid de Leeuw, PhD

University Medical Center Utrecht | Utrecht, Netherlands

10:45 am – 11:15 am **BREAK** | Grand Ballroom Foyer



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11:15 am – 12:15 pm **In-Vivo Dosimetry** | Grand Ballroom A

**Moderator:** Sam Beddar, PhD, DABR, CRE, FCCPM  
MD Anderson Cancer Center | Houston, TX

**Speakers:** **Principles of Real-Time In-Vivo Dosimetry**

Gustavo Kertzscher, PhD  
MD Anderson Cancer Center | Houston, TX

**Clinical Practice of In-Vivo Source Position Verification**

Dean Cutajar, PhD  
University of Wollongong | Sydney, Australia

**Clinical Practice of In-Vivo Dose Verification**

Joanna E. Cygler, PhD, FCCPM, FAAPM  
The Ottawa Hospital Regional Cancer Centre | Ottawa, ON, Canada

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12:30 pm – 1:30 pm **LUNCH** | Plaza A

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1:30 pm – 2:00 pm **In Memory of Jean Pouliot, PhD** | Grand Ballroom A

**In Memoriam Tribute Given By:**  
Luc Beaulieu, PhD  
I-Chow Hsu, MD

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2:00 pm – 3:30 pm **Tracking for Implantation and Verification** | Grand Ballroom A

**Moderator:** William Y. Song, PhD  
Sunnybrook Health Sciences Centre | Toronto, ON Canada

**Speakers:** **EM Tracking**

Luc Beaulieu, PhD  
Hotel-Dieu De Quebec, CHUQ | Quebec City, QC, Canada

**MR Tracking**

Robert Cormack, PhD  
Brigham & Women's Hospital | Boston, MA

**Optical Tracking**

Alexandra Rink, PhD  
Princess Margaret Cancer Centre | Toronto, ON, Canada

**Applicator Tracking for Verification: Principles**

Markus Kellermeier, PhD  
University Clinic Erlangen | Erlangen, Germany

**Clinical Implementation**

Antonio Damato, PhD  
Dana-Farber Brigham and Women's Cancer Care | Boston, MA

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3:30 pm – 4:00 pm **COFFEE BREAK** | Grand Ballroom Foyer

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4:00 pm – 5:30 pm **Industry Perspective** | Grand Ballroom A

**Moderator:** Dimos Baltas, PhD  
University Medical Centre Freiburg | Freiburg, Germany

Eckert & Ziegler BEBIG | Best Medical International | Elekta | Varian Medical Systems

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5:30 pm – 6:30 pm **Round-Table Discussion** | Grand Ballroom A



# MONDAY JUNE 27, 2016

7:00 am – 5:30 pm **REGISTRATION** | Yosemite Foyer

7:30 am – 7:00 pm **COMMERCIAL EXHIBITS** | Grand Ballroom B  
(Including Welcome Reception)

7:30 am – 8:00 am **CONTINENTAL BREAKFAST** | Grand Ballroom B

7:55 am – 8:00 am **WELCOME** | Grand Ballroom A  
Peter F. Orio, III, DO, MS  
2016 World Congress of Brachytherapy Scientific Program Chair

8:00 am – 9:00 am **Breast Session I: Target Definition, Selection Criteria, and Margins for APBI** | Grand Ballroom A

**Moderators:** Csaba Polgár, MD, PhD, MSc  
National Institute of Oncology | Budapest, Hungary

Frank A. Vicini, MD, FACR  
21st Century Oncology | Farmington, MI

**Speakers:** **Asian View**

Johann I. Tang, MD, MBBS, FRANZCR, FAMS  
National Cancer Institute, Singapore | Singapore

**European View**

Jose Luis Guinot, MD  
University Hospital | Valencia, Spain

**US View**

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

**GEC-ESTRO Guidelines for Target Definition**

Vratislav Strnad, MD, PhD  
University Hospital Erlangen | Erlangen, Germany

8:00 am – 9:00 am **Prostate Session I: Long Term Self-Assessment Outcomes Following Prostate Brachytherapy** | Imperial Ballroom A/B  
Module Credit Course

**Moderators:** Brian J. Davis, MD, PhD  
Mayo Clinic | Rochester, MN

Bradley R. Pieters, MD  
Academic Medical Center | Amsterdam, Netherlands

**Speakers:** **Long Term Morbidity**

Stefan Machtens, MD  
MarienKrankenhaus | Bergisch-Gladbach, Germany

**High Dose Rate Brachytherapy**

C. Leland Rogers, MD  
Virginia Commonwealth University | Richmond, VA

**Patterns of Recurrence After Brachytherapy**

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

**Long-Term Outcomes with Low-Dose Rate Brachytherapy**

Michael J. Zelefsky, MD  
Memorial Sloan-Kettering Cancer Center | New York, NY



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8:00 am – 9:00 am **Physics Session I: Registry for  
Self-Assessment  
Module Credit Course** **Model Based Dose Calculation Algorithms** | Yosemite A/B/C  
*(In Honor of Jean Pouliot)*

**Moderators:** **Facundo Ballester, PhD**  
University of Valencia | Valencia, Spain

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

**Speakers:** **Luc Beaulieu, PhD**  
Hotel-Dieu De Quebec, CHUQ | Quebec City, QC, Canada

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

**Ron S. Sloboda, PhD, FCCM**  
University of Alberta | Edmonton, AB, Canada

**Javier Vijande, PhD**  
University of Valencia | Burjassot, Spain

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9:00 am – 10:15 am **GYN Session I: New ICRU Recommendations for Intracavitary  
Brachytherapy and Discussions on Dose Prescription** | Grand Ballroom A

**Moderators:** **Ann Klopp, MD, PhD**  
MD Anderson Cancer Center | Houston, TX

**Tatsuya Ohno, MD, PhD**  
Gunma University | Gumma, Japan

**Speakers:** **ICRU Recommendations for Dose and Volume Reporting: Introduction  
to the New ICRU Report**

**Christian Kirisits, ScD**  
University of Vienna | Vienna, Austria

**ICRU Recommendations for Assessment of GTV, CTV and OARs,  
Concepts and Terms: Introduction to the New ICRU Report**  
**Richard Pötter, MD**

Medical University of Vienna/Vienna General Hospital | Vienna, Austria

**Evidence Based Approach for Dose Prescription: Evidence for Dose  
Effects for Targets, OARs and the Implications for Dose Prescription in IGABT**  
**Kari Tanderup, PhD**  
Aarhus University Hospital | Aarhus, Denmark

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9:00 am – 10:15 am **Scientific Session: Prostate Proffered Papers I** | Imperial Ballroom A/B

**Moderators:** **Peter J. Hoskin, MD**  
Mount Vernon Center for Cancer Treatment | Northwood, United Kingdom

**Bradley R. Prestidge, MD, MS**  
DePaul Medical Center | Norfolk, VA



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9:00 am – 10:15 am **Physics Session II: Cutting Edge Techniques in Brachytherapy** | Yosemite A/B/C

**Moderators:** Astrid de Leeuw, PhD  
University Medical Center Utrecht | Utrecht, Netherlands

Joanna E. Cygler, PhD, FCCPM, FAAPM, FCOMP  
The Ottawa Hospital Regional Cancer Centre | Ottawa, ON, Canada

**Speakers:** **Focal Therapy**

Peter J. Bownes, BSc, MSc  
St. James University Hospital | Leeds, United Kingdom

Annette Haworth, PhD  
Peter MacCallum Cancer Centre | East Melbourne, Australia

**Image Registration**

Jamema V. Swamidas, M.Sc, Dip. R.P.  
Tata Memorial Hospital | Mumbai, India

Dorin A. Todor, PhD  
Virginia Commonwealth University Health System | Richmond, VA

**Integral Doses**

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

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10:15 am – 10:30 am **REFRESHMENT BREAK** | Grand Ballroom B

Sponsored by:



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10:30 am – 11:10 am **Presidential Symposium: Global Issues in Brachytherapy** | Grand Ballroom A

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11:10 am – 11:30 am **Presidential Address** | Grand Ballroom A

David K. Gaffney, MD, PhD  
University of Utah | Salt Lake City, UT

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11:30 am – 12:00 pm **Presentation of the ABS Ulrich Henschke Award** | Grand Ballroom A  
(No CME Credit Offered)

Sponsored by:



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12:00 pm – 1:00pm **RESIDENT LUNCHEON** | Plaza A/B  
(Residents Only)

Sponsored by:



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1:00 pm – 2:30 pm **GYN Session II: Transition from 2D to 3D Brachytherapy** | Grand Ballroom A

**Moderators:** Mitchell Kamrava, MD  
UCLA | Los Angeles, CA

Fu-Quan Zhang, MD  
Peking Union Medical College Hospital | Beijing, China

**Speakers:** **How and Why to Start Brachytherapy in a Developing World?**

Surbhi Grover, MD  
University of Pennsylvania | Philadelphia, PA

**How Best to Transition from 2D to 3D Brachytherapy**

Yeon-Joo Kim, MD  
National Cancer Center | Goyang-si Gyeonggi-do, South Korea

**What Technique Should be used for 3D Brachytherapy in a Developing World**

Umesh Mahantshetty, DMRT, MD, DNB  
Tata Memorial Hospital | Mumbai, India

**What is the Optimal HDR Fractionation for Cervical Brachytherapy?**

Celia Viegas, MD, PhD  
Brazilian National Cancer Institute | Rio de Janeiro, Brazil

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1:00 pm – 2:30 pm **Scientific Session: Physics Snap Orals** | Imperial Ballroom A/B

**Moderators:** Dimos Baltas, PhD  
University Medical Centre Freiburg | Freiburg, Germany

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

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1:00 pm – 2:30 pm **Head & Neck Session I: What Did We Learn on the Way from Radium to Intensity Modulated HDR Brachytherapy (IMBT) in Head & Neck Cancer?** | Yosemite A/B/C

**Moderator:** György Kovács, MD, PhD  
University of Lübeck | Lübeck, Germany

Nancy Y. Lee, MD  
Memorial Sloan-Kettering Cancer Center | New York, NY

**Speakers:** **Technology Versus Outcome**

György Kovács, MD, PhD  
University of Lübeck | Lübeck, Germany

**Perioperative Brachytherapy**

Mauricio Cambeiro, MD  
Clinica Universidad De Navarra | Pamplona, Spain

**Combination of EBRT + BT**

Nancy Y. Lee, MD  
Memorial Sloan-Kettering Cancer Center | New York, NY

**Oral Cavity Cancers**

Yoshioka Yasuo, MD, PhD  
Osaka University Graduate School of Medicine | Osaka, Japan

**Oropharynx Cancers**

Kenneth S. Hu, MD  
New York University Langone Cancer Center | New York, NY

**Brachytherapy of the Neck**

Ashwini N. Budrukkar, MD, DNB  
Tata Memorial Hospital | Mumbai, India





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1:00 pm – 2:30 pm **Physics Hands on Treatment Planning Workshop | Part I**

Laptop providers:



Moderators: **HDR Prostate** | Franciscan A/B

**Dimos Baltas, PhD**

University Medical Centre Freiburg | Freiburg, Germany

**Peter J. Bownes, BSc, MSc**

St. James University Hospital | Leeds, United Kingdom

**Sang-June Park, PhD, DABR**

University of California Los Angeles | Los Angeles, CA

**LDR Prostate** | Franciscan C

**William S. Bice, PhD**

John Muir Health Systems | Walnut Creek, CA

**Wayne M. Butler, PhD**

Schiffler Cancer Center/Wheeling Hospital | Wheeling, WV

**Gil'ad N. Cohen, MS**

Memorial Sloan-Kettering Cancer Center | New York, NY

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2:30 pm – 3:30 pm **Remembering our Friend Peter Grimm: How the Seeds of Curiosity and Collaborations Changed an Industry** | Grand Ballroom A  
(No CME Credit Offered)

In Memoriam Tribute Given By:

**John C. Blasko, MD**

Past President, ABS

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2:30 pm – 3:30 pm **Scientific Session: Physics Proffered Papers** | Imperial Ballroom A/B

Moderators: **Sam Beddar, PhD, DABR, CRE, FCCPM**

MD Anderson Cancer Center | Houston, TX

**Gustavo Kertzscher, PhD**

MD Anderson Cancer Center | Houston, TX

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2:30 pm – 3:30 pm **Skin Session I: Cutaneous Brachytherapy Applications and Techniques** | Yosemite A/B/C

Moderators: **Phillip M. Devlin, MD, FACR, FASTRO, FFRCIS (Hon)**

Dana Farber Cancer Institute/Harvard Medical School | Boston, MA

**Benjamin Guix, MD, PhD**

Institute IMOR, Medical Institute for Radiotherapy and Oncology

University of Barcelona | Barcelona, Spain

Speakers: **Valencia and Leipzig Applicators**

**Ferran Guedea, MD, PhD**

Institut Català d'Oncologia | Barcelona, Spain

**Electronically Generated Low Energy (ELS)**

**Ajay Bhatnagar, MD, MBA**

21st Century Oncology | Casa Grande, AZ

**Complex Custom Applicators and Molds**

**Ivan Buzurovic, PhD**

Dana Farber Brigham Women's Cancer Center | Boston, MA

**Phillip M. Devlin, MD, FACR, FASTRO, FFRCIS (Hon)**

Dana Farber Cancer Institute /Harvard Medical School | Boston, MA

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3:30 pm – 4:00 pm **REFRESHMENT BREAK** | Grand Ballroom B



4:00 pm – 6:00 pm **Scientific Session: Breast Proffered Papers** | Yosemite A/B/C

**Moderators:** **Vratislav Strnad, MD, PhD**  
University Hospital Erlangen | Erlangen, Germany

**J. Ben Wilkinson, MD**  
Willis-Knighton Medical Center | Shreveport, LA

4:00 pm – 6:00 pm **GI Session I: Looking Towards New Developments in GI Tract Brachytherapy** | Grand Ballroom A

**Moderators:** **Remi Nout, MD, PhD**  
Leiden University Medical Center | Leiden, Netherlands

**Bradley R. Pieters, MD**  
Academic Medical Center | Amsterdam, Netherlands

**Speakers:** **Image Guided (CT/MR) HDR BT for Rectal Cancer (Pre-op and Definitive Treatment)**

**Té Vuong, MD, FRCP**  
Jewish General Hospital | Montreal, QC, Canada

**Image Guided (CT/MR) Adaptive BT for Anal Cancer**

**Erik Van Limbergen, MD**  
University Hospital Gasthuisberg | Leuven, Belgium

**HDR Anal Canal Brachytherapy**

**Jean-Michel Hannoun-Levi, MD**  
Centre Antoine Lacassagne | Nice, France

**Applicator Development for Intraluminal Techniques, Role of Shielding**

**William Y. Song, PhD**  
Sunnybrook Health Sciences Centre | Toronto, ON Canada

**Dose Escalation Using Contact Brachytherapy to Improve Organ Preservation in Rectal Cancer**

**Arthur Sun Myint, FRCP (Ed), DMRT, FFRCS, FRCR, FICS**  
The Clatterbridge Cancer Centre | Merseyside, United Kingdom

**Palliative HDR Brachytherapy for Rectal Cancer**

**Alexandra Stewart, DM, MRCP, FRCR**  
St Luke's Cancer Centre, Royal Surrey County Hospital  
Surrey, United Kingdom

4:00 pm – 6:00 pm **Contouring Workshops:**

SPECIALTY	Workshop Moderator(s)	Anatomy	Contouring	Circulators	
<b>GYN</b> Franciscan A/B <small>Laptop Provider:</small> 	Beth Erickson, MD	Beth Erickson, MD	<b>Cervix:</b> Beth Erickson, MD Lars Fokdal, PhD Richard Pötter, MD	Umesh Mahantshetty, MD Joyti Mayadev, MD Mitchell Kamrava, MD Catheryn Yashar, MD	Akila Viswanathan, MD Sushil Beriwal, MD Jason Rownd, MS
<b>SKIN</b> Franciscan D	Phillip M. Devlin, MD			Michele Albert, MD Ajay Bhatnagar, MD Ivan Buzurovic, PhD Ben Guix, MD Ines Guix, MD	Anna O. Lihkacheva, MD Subhakar Mutyala, MD Desmond O'Farrell, MSc Susan Richardson, PhD
<b>PROSTATE</b> Franciscan C Beginner Users <small>Laptop Provider:</small> 	Juanita Crook, MD Carl Salembier, MD	Patrick McLaughlin, MD	<b>TRUS:</b> Gerard Morton, MD <b>CT:</b> Juanita Crook, MD <b>MRI:</b> Steven Frank, MD	Brett Cox, MD Brian Davis, MD Mira Keyes, MD Patrick McLaughlin, MD	

6:00 pm – 7:00 pm **Welcome Reception & Poster Review with Exhibits** | Grand Ballroom B



# Tuesday June 28, 2016

7:00 am – 5:45 pm **REGISTRATION** | Yosemite Foyer

7:30 am – 5:00 pm **COMMERCIAL EXHIBITS** | Grand Ballroom B

7:30 am – 8:00 am **CONTINENTAL BREAKFAST** | Grand Ballroom B

7:55 am – 8:00 am **Daily Recap** | Grand Ballroom A

**Peter F. Orio, III, DO, MS**

2016 World Congress of Brachytherapy Scientific Program Chair

8:00 am – 9:00 am **Prostate Snap Orals** | Imperial Ballroom A/B

**Moderators:** **Jeremy L. Millar, BSc, MB, ChB, FRANZCR**

Alfred Health | Melbourne, Australia

**Thomas J. Pugh, MD**

MD Anderson Cancer Center | Houston, TX

8:00 am – 9:00 am **GYN Session III: Techniques for Endometrium and Vagina** | Grand Ballroom A

**Self-Assessment  
Module Credit Course**

**Moderators:** **David K. Gaffney, MD, PhD**

University of Utah | Salt Lake City, UT

**Chonlakiet Khorprasert, MD**

King Chulalongkorn Memorial Hospital | Bangkok, Thailand

**Speakers:** **Techniques for Management of Vaginal Cancers/Vaginal Recurrences**

**Sushil Beriwal, MD**

University of Pittsburgh | Pittsburgh, PA

**How to Do Adjuvant Cuff Brachytherapy: Prescription Dose,  
Volume and Technique**

**Ann H. Klopp, MD, PhD**

UT MD Anderson Cancer Center | Houston, TX

**EBRT VS. BT Versus No RT: Indications for Adjuvant Radiotherapy in Early  
Stage Endometrium Cancer**

**Jyoti S. Mayadev, MD**

University of California Davis | Sacramento, CA

8:00 am – 9:00 am **Physics Session III: Risk Management in Brachytherapy** | Yosemite A/B/C

**Moderators:** **Mark J. Rivard, PhD, FAAPM**

Tufts University School of Medicine | Boston, MA

**Kari Tanderup, PhD**

Aarhus University Hospital | Aarhus, Denmark

**Speakers:** **Derek W. Brown, PhD**

University of California, San Diego | San Diego, CA

**Frank-Andre Siebert, PhD**

UK-SH, Campus Kiel/Clinic of Radiotherapy | Kiel, Germany

**Bruce R. Thomadsen, PhD**

University of Wisconsin-Madison | Madison, WI



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9:00 am – 11:00 am **Physics Hands on Treatment Planning Workshop | Part II**

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Laptop providers:



**Moderators: HDR Breast | Franciscan C**

**Ernest G. Butler, MS, CMD**

Schiffler Cancer Center/Wheeling Hospital | Wheeling, WV

**Tibor Major, PhD**

National Institute of Oncology | Budapest, Hungary

**Dorin A. Todor, PhD**

Virginia Commonwealth University Health System | Richmond, VA

**HDR GYN | Franciscan A/B**

**Antonio Damato, PhD**

Dana-Farber Brigham and Women's Cancer Care | Boston, MA

**Daniel J. Scanderbeg, PhD**

University of California San Diego Medical Center | San Diego, CA

**Christian Kirisits, ScD**

University of Vienna | Vienna, Austria

**HDR Skin | Franciscan D**

**Facundo Ballester, PhD**

University of Valencia | Valencia, Spain

**Ivan Buzurovic, PhD**

Dana-Farber Brigham Women's Cancer Center | Boston, MA

**Zoubir Ouhib, MS, DABR**

Lynn Cancer Institute | Delray Beach, FL

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9:00 am – 10:00 am **Prostate Session II: Prostate Brachytherapy:  
How do HDR and LDR Compare Radiobiologically? | Grand Ballroom A**

**Moderators: Peter J. Hoskin, MD**

Mount Vernon Center for Cancer Treatment | Northwood, United Kingdom

**Gerard C. Morton, MD**

Sunnybrook Odette Cancer Centre | Toronto, ON, Canada

**Speakers: Radiobiology of Prostate HDR**

**Peter J. Hoskin, MD**

Mount Vernon Center for Cancer Treatment | Northwood, United Kingdom

**Radiobiology of Prostate LDR Brachytherapy**

**Richard G. Stock, MD**

Mount Sinai Medical Center | New York, NY

**Radiobiology of Prostate Brachytherapy**

**Amato J. Giaccia, PhD**

Stanford School of Medicine | Stanford, CA

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9:00 am – 10:00 am **Scientific Session: GYN Proffered Papers I | Imperial Ballroom A/B**

**Moderator: Patricia J. Eifel, MD, FASTRO**

MD Anderson Cancer Center | Houston, TX

**Remi Nout, MD, PhD**

Leiden University Medical Center | Leiden, Netherlands



10:00 am – 11:00 am **Scientific Session: Prostate Proffered Papers II** | Grand Ballroom A

**Moderators:** **Peter Niehoff, MD**  
University of Witten/Herdecke | Köln, Germany  
**Paul L. Nguyen, MD**  
Dana-Farber Cancer Institute/Harvard Cancer Center | Boston, MA

10:00 am – 11:00 am **Scientific Session: Breast Snap Orals** | Imperial Ballroom A/B

**Moderators:** **Peter Y. Chen, MD, FACR**  
William Beaumont Hospital | Royal Oak, MI  
**Jose Luis Guinot, MD**  
University Hospital | Valencia, Spain

11:00 am – 11:15 am **REFRESHMENT BREAK** | Grand Ballroom B

11:15 am – 12:15 pm **Keynote Address:**  
**Global Health — Challenges of Cancer and Radiotherapy** | Grand Ballroom A

**Mary K. Gospodarowicz, MD, FRCPC, FRCR (Hon)**  
Immediate-Past President of the Union for International Cancer Control

12:15 pm – 1:15 pm **ABS Members Lunch and Annual Business Meeting** | Plaza A/B  
(Event for ABS Members Only)

Sponsored by: 

**Presentation of Presidents, Founders and Educators Awards**

1:15 pm – 2:15 pm **Plenary Session: Top Four Abstracts** | Grand Ballroom A  
**Judith Stitt Awards**

Sponsored by: 

**GYN:** Image Guided Brachytherapy in Cervical Cancer: A Comparison between Intracavitary and Combined Intracavitary/Interstitial Brachytherapy in Regard to Doses to HR CTV, OARs and Late Morbidity — Early Results from the Embrace Study in 999 Patients

**Speaker:** **Israël Fortin, MD, MSc**

**Discussant:** **Sushil Beriwal, MD**

**PHYSICS:** Low-Energy Brachytherapy Sources for Pelvic Sidewall Treatment

**Speaker:** **Mark J. Rivard, PhD**

**Discussant:** **Wayne M. Butler, PhD**

**PROSTATE:** Improved Survival with Brachytherapy as a Component of Definitive Therapy for Favorable High-Risk Prostate Cancer

**Speaker:** **Matthew W. Jackson, MD**

**Discussant:** **Bradley R. Prestidge, MD, MS**

**BREAST:** Accelerated Partial Breast Irradiation (APBI) Using Sole Interstitial Multicatheter Brachytherapy — GEC-ESTRO Phase III Non-Inferiority Trial: Subanalysis of 5-Year Results Reflecting Current GEC-ESTRO and ASTRO Recommendations for Patient Selection

**Speaker:** **Vratislav Strnad, MD**

**Discussant:** **Douglas W. Arthur, MD**

2:15 pm – 2:45 pm **Marie-Curie Gold Medal GEC-ESTRO Presentation** | Grand Ballroom A  
(No CME Credit Offered)



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2:45 pm – 3:45 pm **Prostate Session III: MRI for Post-Treatment Assessment and Diagnosis with a Rising PSA** | Grand Ballroom A

**Moderators:** **Steven J. Frank, MD**  
MD Anderson Cancer Center | Houston, TX  
**Cynthia Ménard, MD, FRCP(C)**  
CHUM—Hôpital Notre-Dame—Pavillon Lachapelle  
Montreal, QC, Canada

**Speakers:** **Aradhana M. Venkatesan, MD**  
MD Anderson Cancer Center | Houston, TX  
**Marco van Vulpen, MD, PhD**  
University Medical Center Utrecht | Utrecht, Netherlands  
**Jihong Wang, PhD**  
MD Anderson Cancer Center | Houston, TX

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2:45 pm – 3:45 pm **Breast Session II: Reirradiation, Augmentation and Toxicities** | Yosemite A/B

**Moderators:** **Jean-Michel Hannoun-Levi, MD**  
Centre Antoine Lacassagne | Nice, France  
**Catheryn M. Yashar, MD**  
University of California, San Diego | La Jolla, CA

**Speakers:** **Reirradiation**  
**Patient Selection**  
**Kristina Lössl, MD**  
University Clinic for Radiation Oncology, Inselspital | Bern, Switzerland  
**Risk, Toxicities, Dose Constraints**  
**Mark G. Trombetta, MD**  
Allegheny General Hospital | Pittsburgh, PA  
**Techniques, Long-Term Results**  
**Jean-Michel Hannoun-Levi, MD**  
Centre Antoine Lacassagne | Nice, France

**Speakers:** **Late Side Effects of APBI as a Function of Quality Assurance and Technique**  
**Elizabeth S. Bloom, MD**  
MD Anderson Cancer Center | Houston, TX  
**APBI in the Setting of Augmentation**  
**Robert R. Kuske, Jr., MD**  
Arizona Cancer Specialists | Phoenix, AZ

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2:45 pm – 3:45 pm **Scientific Session: Miscellaneous Snap Orals** | Imperial Ballroom A/B

**Moderators:** **Michele Albert, MD**  
Dana-Farber Brigham and Women's Cancer Care | Boston, MA  
**Sandra J. Sha, MD**  
Central Florida Cancer Institute | Orlando, FL



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3:45 pm – 4:00 pm **REFRESHMENT BREAK** | Grand Ballroom B

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4:00 pm – 6:00 pm **Contouring Workshops:**

SPECIALTY	Workshop Moderator(s)	Anatomy	Contouring	Circulators
<b>GYN</b> Franciscan A/B <i>Laptop Provider:</i> 	Beth Erickson, MD	Beth Erickson, MD	<b>Vagina/Inoperable Endometrium:</b> Catheryn Yashar, MD Akila Viswanathan, MD Sushil Beriwal, MD	Umesh Mahantshetty, MD Joyti Mayadev, MD Mitchell Kamrava, MD Catheryn Yashar, MD Akila Viswanathan, MD Sushil Beriwal, MD Antonio Damato, PhD
<b>SKIN</b> Franciscan D	Phillip M. Devlin, MD			Ivan Buzurovic, MD Ben Guix, MD Ines Guix, MD Anna O. Lihkacheva, MD Desmond O'Farrell, MSc Susan Richardson, PhD
<b>PROSTATE</b> Franciscan C Advanced Users <i>Laptop Provider:</i> 	Alberto Bossi, MD Juanita Crook, MD	Patrick McLaughlin, MD	<b>TRUS:</b> Gerard Morton, MD <b>CT:</b> Juanita Crook, MD <b>MRI:</b> Steven Frank, MD	Brett Cox, MD Brian Davis, MD Mira Keyes, MD Patrick McLaughlin, MD

4:00 pm – 6:00 pm **Scientific Session: Miscellaneous Proffered Papers I** | Yosemite A/B

**Moderators:** Ajay Bhatnagar, MD, MBA  
 21st Century Oncology | Casa Grande, AZ  
 Nathan H. J. Bittner, MD, MS  
 Tacoma Valley Radiation Oncology Centers | Puyallup, WA

4:00 pm – 5:00 pm **Breast Session III: Socioeconomic Aspects of APBI** | Imperial Ballroom A/B

**Moderators:** Erik Van Limbergen, MD, PhD  
 University Hospital Gasthuisberg | Leuven, Belgium  
 Catheryn M. Yashar, MD  
 University of California, San Diego | La Jolla, CA

**Speakers:** **APBI in a Developing World**  
 Douglas W. Arthur, MD  
 Virginia Commonwealth University | Richmond, VA

**The Cost Efficacy of APBI Delivered by Brachytherapy in West Europe**  
 Peter Niehoff, MD  
 University of Witten/Herdecke | Köln, Germany

**The Cost Efficacy of APBI Delivered by Brachytherapy in the US**  
 Chirag S. Shah, MD  
 Summa Health System | Akron, OH

**APBI in Asia**  
 Jun Itami, MD  
 National Cancer Center Hospital | Tokyo, Japan

**Demographic Data for Breast Cancer in the Elderly, Comorbidity Associated Factors, Use of AHT and Impacts on Utilization of Adjuvant RT**  
 Jean-Michel Hannoun-Levi, MD  
 Centre Antoine Lacassagne | Nice, France

**Cost/Toxicities of Antiestrogen and 2 Day Trial, IORT, Hypofractionation**  
 Mitchell Kamrava, MD  
 UCLA | Los Angeles, CA



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5:00 pm – 6:00 pm **Miscellaneous Session I: Thoracic Brachytherapy** | Imperial Ballroom A/B

**Moderators:** **Keyur J. Mehta, MD**  
Montefiore Medical Center | Bronx, NY

**Marie Lynn Racine, MD**  
Hôpital Charles-LeMoyne | Montreal, PQ | Canada

**Speakers:** **Endobroncheal Brachytherapy**

**Subhakar Mutyala, MD**  
University of Arizona Cancer Center at Dignity Health | Phoenix, AZ

**ABS Consensus Guidelines for Thoracic Brachytherapy Update**

**Alexandra J. Stewart, DM, MRCP, FRCR**  
St Luke's Cancer Centre, Royal Surrey County Hospital  
Surrey, United Kingdom

**Esophageal Brachytherapy**

**Té Vuong, MD, FRCP**  
Jewish General Hospital | Montreal, QC, Canada

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## Wednesday June 29, 2016

7:00 am – 4:00 pm **REGISTRATION** | Yosemite Foyer

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7:30 am – 11:00 am **COMMERCIAL EXHIBITS** | Grand Ballroom B

7:30 am – 8:00 am **CONTINENTAL BREAKFAST** | Grand Ballroom B

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7:50 am – 8:00 am **Daily Recap** | Grand Ballroom A

**Peter F. Orio, III, DO, MS**  
2016 World Congress of Brachytherapy Scientific Program Chair

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8:00 am – 9:00 am **Prostate Proffered Papers III** | Imperial Ballroom A/B

**Moderators:** **Simon Buus, MD, PhD**  
Aarhus University Hospital | Denmark, Sweden

**Drew Moghanaki, MD, MPH**  
Virginia Commonwealth University | Richmond, VA

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8:00 am – 9:00 am **Miscellaneous Session II: Eye Plaques for Choroidal Melanoma** | Plaza A/B

**Moderators:** Jaroslaw T. Hepel, MD  
Rhode Island Hospital/Brown University | Providence, RI

Alexandra J. Stewart, DM, MRCP, FRCR  
St Luke's Cancer Centre, Royal Surrey County Hospital  
Surrey, United Kingdom

**Speakers:** **Patient Selection and Ophthalmologic Consideration for Treatment**

Armin Afshar, MD  
UCSF | San Francisco, CA

**Radiation Consideration for Treatment and Outcomes**

Jaganmohan Poli, MD  
Drexel University | Philadelphia, PA

**Dosimetric Implications of Different Radionuclides and Plaque Geometries**

Christopher S. Melhus, PhD  
Tufts Medical Center | Boston, MA

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8:00 am – 9:00 am **The Challenges That Health Care is Facing Now and Will Face in the Future** | Grand Ballroom A

**Invited Speaker:** Bernadette Loftus, MD  
The Permanente Medical Group | Rockville, MD

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9:00 am – 10:30 am **The Role of Local Therapies in the Era of Active Surveillance** | Grand Ballroom A

**Moderator:** Richard K. Babayan, MD  
Boston University School of Medicine and Boston Medical Center  
Boston, MA

**Speakers:** Juanita M. Crook, MD, FRCPC  
Cancer Center for the Southern Interior | Kelowna, BC, Canada

Marissa A. Kollmeier, MD  
Memorial Sloan-Kettering Cancer Center | New York, NY

Michael Leapman, MD  
University of California, San Francisco | San Francisco, CA

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10:30 am – 10:45 am **REFRESHMENT BREAK** | Grand Ballroom B

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10:45 am – 12:15 pm **Scientific Session: GYN Proffered Papers II** | Imperial Ballroom A/B

**Moderators:** Karen Lim, MBBS  
Liverpool Hospital | Sydney, Australia

Li Tee Tan, MBBS, MRCP, FRCR, MD  
Addenbrooke Hospital | Cambridge, United Kingdom



10:45 am – 12:15 pm **Breast Session IV: Current Techniques and Long Term Results of APBI Trials** | Grand Ballroom A  
 Self-Assessment  
 Module Credit Course

**Moderators:** **Vratislav Strnad, MD, PhD**  
 University Hospital Erlangen | Erlangen, Germany

**David E. Wazer, MD, FACR, FASTRO**  
 Tufts and Brown University | Boston, MA

**Speakers:** **Results of Single Entry Devices Based Techniques**  
**Douglas W. Arthur, MD**  
 Virginia Commonwealth University | Richmond, VA

**Results of Phase III Trials Using EBRT and IORT**  
**Veronica Dell'Acqua, MD**  
 IEO Istituto Europeo di Oncologia | Milan, Italy

**Results of Non-invasive Brachytherapy**  
**Jaroslav T. Hepel, MD**  
 Brown University/Rhode Island Hospital | Providence, RI

**Results of Phase III Trials Using Multicatheter Brachytherapy**  
**Csaba Polgár, MD, PhD, MSc**  
 National Institute of Oncology | Budapest, Hungary

12:15 pm – 1:15 pm **LUNCH**  
 (Attendees on their own)

1:15 pm – 2:45 pm **GYN Session IV: Adaptive Brachytherapy in Cervix Cancer and Complications** | Grand Ballroom A  
 Self-Assessment  
 Module Credit Course

**Moderators:** **Karen Lim, MBBS**  
 Liverpool Hospital | Sydney, Australia

**Kailash Narayan, MBBS, MD, PhD, FRANZCR**  
 Peter MacCallum Cancer Center | East Melbourne, Australia

**Speakers:** **Combined Intracavitary-Interstitial: When and How To Do It**  
**Lars U. Fokdal, MD, PhD**  
 Aarhus University Hospital | Aarhus, Denmark

**Ultrasound Based Conformal Brachytherapy for Cervix Cancer**  
**Kailash Narayan, MBBS, MD, PhD, FRANZCR**  
 Peter MacCallum Cancer Center | East Melbourne, Australia

**Management of GU and Vaginal Toxicity**  
**Remi Nout, MD, PhD**  
 Leiden University Medical Center | Leiden, Netherlands

**Management of GI Toxicity**  
**Alexandra Taylor, MBBS, MRCP, FRCR, MD**  
 Royal Marsden Hospital | United Kingdom

**Template Based Interstitial: When and How To Do It**  
**Akila N. Viswanathan, MD, MPH**  
 Dana-Farber Brigham and Women's Cancer Center | Boston, MA

1:15 pm – 2:45 pm **Scientific Session: Miscellaneous Proffered Papers II** | Imperial Ballroom A/B

**Moderators:** **Mitchell Kamrava, MD**  
 UCLA | Los Angeles, CA

**Arthur Sun Myint, FRCP (Ed), DMRT, FFRCS, FRCR, FICS**  
 The Clatterbridge Cancer Centre | Merseyside, United Kingdom



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2:45 pm – 4:00 pm **Scientific Session: GYN Snap Orals** | Grand Ballroom A

**Moderators:** **Umesh Mahantshetty, DMRT, MD, DNB**  
Tata Memorial Hospital | Mumbai, India

**Fuquan Zang, MD**  
Peking Union Medical College Hospital | Beijing, China

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2:45 pm – 4:00 pm **Scientific Session: Socioeconomic Proffered Papers** | Imperial Ballroom A/B

**Moderators:** **Peter J. Rossi, MD**  
Emory University School of Medicine | Atlanta, GA

**Al V. Taira, MD**  
Sutter Health | San Mateo, CA

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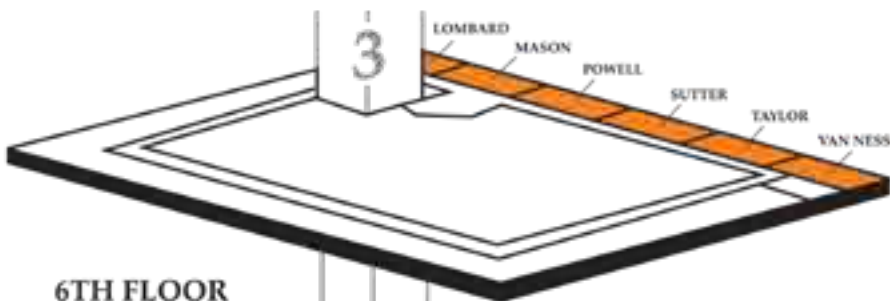
4:00 pm

**CONGRESS ADJOURNS**

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**6TH FLOOR  
TOWER 3**



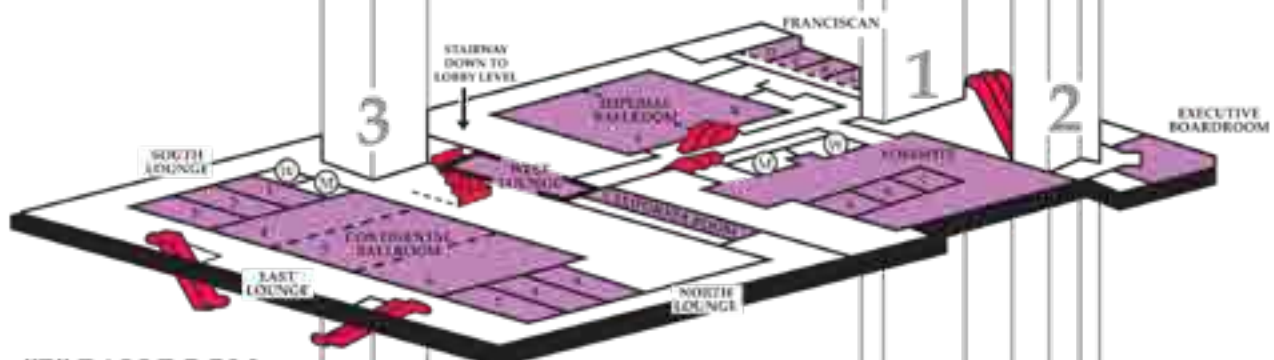
**4TH FLOOR  
TOWER 3**

- Escalators and Stairs to Ballroom Levels
- Lobby Level Meeting Space  
*Golden Gate, Urban Tavern, FedEx, Plaza A/B and Executive; Herb N' Kitchen Conference Center (SoaCliff, Presidio, Sunset, Marina)*
- Ballroom Level Meeting Space  
*Continental, Imperial, Yosemite, Franciscan, Executive Boardroom*
- Grand Ballroom Level  
*Grand Ballroom and Green Room*
- Union Square Rooms (4th Floor)  
*Rooms 1-25*
- Sixth Floor Meeting Rooms  
*Lombard, Mason, Powell, Sutter, Taylor, Van Ness*
- Accessible Facilities  
*Accessible restrooms are located on the following levels: L (Lobby), B (Ballroom), M (Grand Ballroom, Mezzanine)*

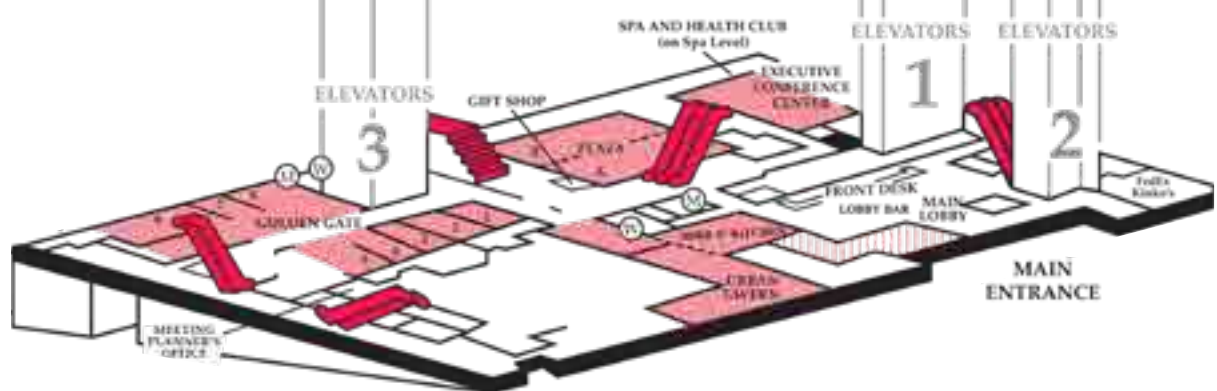
\* Package Express located in Tower 3, Garage Level  
 \* Pool located in Tower 3, 16th Floor  
 \* Health Club located in Tower 1, Lower Level



**GRAND BALLROOM  
"GB" LEVEL**



**"B" BALLROOM  
LEVEL**



**MAIN  
ENTRANCE**

# 2016 World Congress Ancillary Meetings

Monday, June 27

7:00 am **ABS International Committee** | Union Square 23/24

12:00 pm **Pro-Brachy** | Union Square 23/24

Tuesday, June 28

7:00 am **ABS Physics Committee** | Union Square 23/24

12:15 pm **AAPM/ESTRO/ABG Working Group** | Union Square 23/24

4:00 pm **In-Vivo Dosimetry** | Plaza B

6:00 pm **ABS Patient Safety Committee** | Union Square 23/24

Wednesday, June 29

8:00 am **International GYN** | Franciscan A/B

## Thank You to Our 2016 World Congress & ABS Sponsors



2016 Ulrich Henschke Award



2016 LDR Brachytherapy Scholarship Program  
Monday Morning Coffee Break



Annual Meeting Mobile App  
Judith Stitt Best Paper Awards  
Laptop Computers for Contouring Sessions  
2016 HDR Brachytherapy Scholarship Programs



2016 LDR Prostate Brachytherapy Scholarship



Residents' Luncheon  
2016 Resident Travel Grants



ABS Membership Luncheon  
2016 LDR Prostate Brachytherapy Scholarship



Laptop Computers for Contouring Sessions  
2016 HDR Brachytherapy Scholarship Programs



# Future ABS Meetings



## **November 14–15, 2016** **Breast School**

Westin Chicago River North  
Chicago, Illinois



## **April 20–22, 2017** **Annual Conference**

Seaport Hotel  
Boston, Massachusetts



## **February 24–25, 2017** **Prostate School**

Hyatt Regency Pier 66  
Ft. Lauderdale, Florida



## **February 23–24, 2018** **GYN School**

Hyatt Regency Pier 66  
Ft. Lauderdale, Florida





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