AMERICAN RADIUM SOCIETY
99th Annual Meeting
“Clinical Trial Advancement through Multidisciplinary Integration of Immunotherapy”

May 6 - 9, 2017
The Broadmoor, Colorado Springs, CO
President: Quynh-Thu Le, MD
Program Chair: Joséph Herman, MD, MSc

Advance Program
Early Registration: March 1, 2017
Housing Deadline: April 7, 2017

Learn more at
www.americanradiumsociety.org/99th-annual-meeting
Who Should Attend
The ARS meeting is open to ARS Members and Non-Members, specializing or training in the field of Oncology including, but not limited to, Medical Oncology, Surgical Oncology, Radiation Oncology, Gynecologic Oncology, Head and Neck Oncology, and all other specialties within the field of Oncology, as well as Allied Health and Industry Corporate Leaders.

CME Credit
CME Credit will be available at this activity.

Self Assessment Modules
(SAM)
“Qualified by the American Board of Radiology in meeting the criteria for self-assessment toward the purpose of fulfilling requirements in the ABR Maintenance of Certification Program.” ARS is proud to offer SAMs for the 2017 Meeting in a robust quantity on many topics. Self-Assessment Modules count toward the SAM requirement for the ABR and some other specialty boards.

Educational Learning Objectives
At the end of this activity, participants will be able to:

1. Directly care for patients with gynecologic, breast, esophageal, and rectal cancer in a multidisciplinary environment.
2. Review the role of radiation therapy in the management of complex cases of localized pancreas cancer.
3. Identify and care for patients with oligometastatic disease.
4. Analyze the issues involved in the application of stereotactic body radiation therapy in gastrointestinal and CNS malignancies.

Outcomes
This educational activity will improve competence, practice performance and patient outcomes by:

1. Reviewing sophisticated radiotherapy techniques and documenting when and for which patients such techniques/technologies have a beneficial role for gynecological, breast, and gastrointestinal malignancies.
2. Documenting and elucidating the role of multimodality care in the contemporary management of esophageal and rectal cancer.
3. Educating physicians as to the most appropriate approaches for gynecological, breast, gastrointestinal, liver, and oligometastatic disease.
4. Reviewing the literature regarding the appropriate application of stereotactic body radiation therapy and its safe delivery for liver, pancreas and CNS tumors.
Dear Colleagues,

The 99th Annual Meeting of the American Radium Society will be held on May 6-9, 2017 at the majestic Broadmoor Hotel in Colorado Springs. In keeping with our society’s mission, the scientific committee has organized an exceptional multi-disciplinary program. The theme will be “Clinical trial advancement through multidisciplinary integration of immunotherapy”. On behalf of the entire ARS leadership, I invite you to attend this exciting meeting. The Scientific Program Committee, chaired by Joseph Herman, MD, MSC, has recruited an outstanding cadre of lecturers and panelists. Keynote speakers include: Crystal L. Mackall, MD, Director of Parker Institute for Cancer Immunotherapy at Stanford University, and Walter J Curran, MD, FACS, Executive Director of the Winship Cancer Institute of Emory University and the Group Chairman of NRG Oncology. Dr. Mackall is an expert in cellular immune therapy and Dr. Curran is a seasoned clinical trialist. This year’s Janeway Lecturer will be James Allison, PhD, Vivian L. Smith Distinguished Chair in Immunology and Department Chair, Department of Immunology at MD Anderson Cancer Center. Dr. Allison is known in the field for his pioneering work of developing the first immune checkpoint therapy targeting CTLA-4. The success of this approach has led to significant investigation of immune checkpoint therapy being tested in different cancer types.

The meeting will kick off at noon on Saturday with James Cox, MD (Professor and previous Chair at MD Anderson), who will provide a personal perspective of how Colorado Springs was one of the early adopters of modern radiation oncology. Then, at 1 pm this year’s SBRT Primer will focus only on gastrointestinal (GI) and central nervous system tumors in order to provide a more in-depth “hands on” approach to treating these malignancies with SBRT. The Presidential Course highlighting clinical trials will start immediately after the SBRT Primer. We will have Howard Sandler, MD, speaking on genitourinary tumors, Karyn Goodman, MD, on GI cancers, Jeff Bradley, MD, on thoracic malignancies and Thomas Bucholtz, MD, on breast cancers. Saturday evening, the Welcome Reception will include an exciting Poster Walk with a new format containing in-depth discussion of selected posters by pairs of expert faculty from 10 different disciplines from across the country.

The meeting features several exciting scientific panels, including a panel on state-of-the-art treatment of gynecologic malignancies led by Akila Viswanathan, MD, MPH, a panel on the management of esophageal cancers by Steven Lin, MD, and a panel on how to optimally combine SBRT with immunotherapy by Steven Chmura, MD, PhD. There will also be an electrifying debate as to whether radiation is needed in the management of pancreatic cancer led by Daniel Chang, MD. There will be two case-based tumor boards, one on breast cancer developed by Kate Horst, MD and one on rectal cancer by Prajnan Das, MD, MS, MPH. Deviating from past traditions and in the spirit of patient-centered care, my Presidential Address will recognize one of the local CNN heroes, Brad Luden from First Descents, a non-profit organization that brings life-changing outdoor adventures to young adult cancer fighters and survivors.

Of course, there will be several outstanding scientific sessions (assembled from a great selection of high-quality submissions). In addition, there will be many fun social events including a resident vs. faculty medical jeopardy moderated by Join Luh, MD and David Raben, MD. I encourage you to read through the rest of this advance program for additional details.

The annual meeting of the ARS is a great opportunity to blend learning, scientific discussions, collegial relationships, and leisure. Colorado Springs is a perfect place to get together. Located 60 miles south of Denver and situated near the base of one of the most famous American mountains, Pikes Peak, the city hosts 24 national governing bodies of sport, the US Olympic Committee, the US Olympic Training Center, and the Airforce Academy. It is home to many beautiful landscapes, miles of hiking trails, numerous local attractions, and lots of fun adventures. US News and World Report ranks Colorado Springs the 6th “Best Weekend Getaway” and the 5th “Best Place to Live” in the US. In addition, it has significant historic importance to cancer because it is home to one of the first radiation oncology facilities in North America. Dr. Henry Coutard was a founder of the Penrose Tumor Institute in 1941 and his protégé Dr. Juan del Regato was the medical director of the Penrose Cancer Hospital for many years. Many world-renowned radiation oncologists were trained there including our own Dr. James Cox, one of the past ARS presidents.

Finally a special thank you to the following companies for providing educational grants in support of the 99th Annual Meeting: Elekta, Silver Level Sponsor; Hitachi America, Ltd, Silver Level Sponsor; Mevion Medical Systems, Silver Level Sponsor; ViewRay, Bronze Level Sponsor; and Bayer, Keynote Session Sponsor. The Broadmoor hotel is an AAA five-diamond resort with distinctive amenities and a family-friendly atmosphere. It is a great venue for outdoor adventures as well as for relaxation with the family. Registration is now open, so be sure to mark your calendars for May. Please join us in Colorado Springs and we hope you bring along your family.

Best regards,

Quynh-Thu Le, MD
ARS President

Register Now at http://www.cvent.com/d/5vqd37
Early bird rates end on Wednesday, March 1st!

Quynh-Thu Le, MD
Stanford Medicine
ARS 2016-2017 President
### Saturday, May 6, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00 - 1:00 PM</td>
<td>Resident Lunch</td>
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<tr>
<td>1:00 - 3:00 PM</td>
<td>EduCase SBRT eContouring Symposium §</td>
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<tr>
<td>3:15 - 5:30 PM</td>
<td>Presidential Categorical Course – Clinical Trials §</td>
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<tr>
<td>5:15 – 6:15 PM:</td>
<td>Opening Reception in Exhibit Hall</td>
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<td>6:15 – 7:00 PM:</td>
<td>Poster Walk</td>
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### Sunday, May 7, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 – 7:30 AM</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:30 - 8:30 AM</td>
<td>Updates in the Management of Cervical Cancer §</td>
</tr>
<tr>
<td>8:30 - 9:30 AM</td>
<td>Janeway Lecturer</td>
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<tr>
<td></td>
<td>James P. Allison, PhD - MD Anderson Cancer Center</td>
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<tr>
<td>9:30 - 10:30 AM</td>
<td>Scientific Session #1: Breast/Gyn</td>
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<tr>
<td>10:30 - 10:45 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 - 12:00 PM</td>
<td>Scientific Session #2: Lung/Lymphoma</td>
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<tr>
<td>12:00 - 1:00 PM</td>
<td>Oligometastatic and Immunotherapy Panel §</td>
</tr>
<tr>
<td>1:15 - 2:45 PM</td>
<td>Case-Based Tumor Board: Breast Cancer §§</td>
</tr>
<tr>
<td>5:30 - 7:00 PM</td>
<td>Resident vs Faculty Medical Jeopardy</td>
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<tr>
<td>7:30 - 9:30 PM</td>
<td>ARS Social Event at the Cheyenne Lodge §§</td>
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*Registration and payment required for this session. Space is limited.

**Registration and payment required for guests.

$ Self Assessment Module (Tentative)

### Monday, May 8, 2017

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 - 7:30 AM</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:30 - 8:30 AM</td>
<td>Advances in the Multidisciplinary Management of Esophageal Cancer §</td>
</tr>
<tr>
<td>8:30 - 9:30 AM</td>
<td>Scientific Session #3: GI/GU</td>
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<tr>
<td>9:30 - 10:15 AM</td>
<td>Keynote Speaker</td>
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<td></td>
<td>Walter J. Curran MD, FACS - Emory University/Winship Cancer Institute</td>
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<tr>
<td>10:15 - 10:30 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 - 11:30 AM</td>
<td>Scientific Session #4: H/N Skin</td>
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<tr>
<td>11:30 - 12:30 PM</td>
<td>Scientific Session #5: Trans/QOL/Misc</td>
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<tr>
<td>12:45 - 2:15 PM</td>
<td>Case-Based Tumor Board: Rectal Cancer §§</td>
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<tr>
<td>6:00 - 9:00 PM</td>
<td>President’s Dinner (Invitation Only)</td>
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### Tuesday, May 9, 2017

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:00 - 7:30 AM</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:30 - 8:00 AM</td>
<td>Business Meeting</td>
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<tr>
<td>8:00 - 8:30 AM</td>
<td>Presidential Lecture</td>
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<td></td>
<td>Quynh-Thu Le</td>
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<tr>
<td>8:30 - 9:30 AM</td>
<td>Scientific Session #6: Young Oncologist Essay Session</td>
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<td>9:30 - 9:45 AM</td>
<td>Break</td>
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<tr>
<td>9:45 - 10:30 AM</td>
<td>Keynote Lecture</td>
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<td></td>
<td>Crystal L Mackall, MD - Stanford Medicine</td>
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<tr>
<td>11:30 - 12:30 PM</td>
<td>Scientific Session #7: Mets/Peds/CNS</td>
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</table>

To register please visit: [http://www.cvent.com/d/5vqd37](http://www.cvent.com/d/5vqd37)
Registration & Hotel Information

On-Site Registration Hours
- Saturday, May 6, 2017: 8:00am - 7:00pm
- Sunday, May 7, 2017: 6:45am - 3:00pm & 4:00pm - 7:00pm
- Monday, May 8, 2017: 6:45am - 5:00pm
- Tuesday, May 9, 2017: 7:00am - 12:30pm

How Do I Register?
Three Ways to Register in Advance:
1) Register online at http://www.cvent.com/d/5vqd37
2) Fax completed registration form to (310) 437-0585
   ATTN: Registration
3) Mail completed registration form to ARS Registration:
   ARS Registration
   American Radium Society registration
   11300 W. Olympic Blvd, Suite 600
   Los Angeles, CA 90064

For any questions regarding registration, please contact the ARS Registrar at
Phone: (310) 437-0581 x128 or registration@americanradiumsociety.org.

Hotel
THE BROADMOOR
1 Lake Avenue
Colorado Springs, CO 80906

ARS Room Rate: $269* plus applicable taxes for single or double occupancy.

*Rate only available until April 7, 2017 or until the block fills up, whichever takes place first. Book your room now to take advantage of this special rate.

Online Reservations:
https://aws.passkey.com/go/ARS517

Phone Reservations: (855) 634-7711 – please refer to the American Radium Society 99th Annual Meeting.

If you have any questions or need any assistance, please contact Adriana Michaels, Senior Meeting Planner at adriana@americanradiumsociety.org.

Meeting Registration includes Presidential Categorical Course, SBRT Primer, Keynotes, Panel Sessions, Debate, Scientific Sessions, Continuing Medical Education credits, Daily Continental Breakfast, Coffee Breaks, Welcome Reception and ARS Social Event.

Guest Registration includes breakfast, breaks, spouses lounge (Sunday, Monday and Tuesday from 7am to 11am), Welcome Reception and Main Social Event.

Special Services
The American Radium Society wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently because of the absence of auxiliary aids and services. If you require auxiliary aids or service, please indicate your needs on the registration form in this program. Please direct all questions concerning registration to the Meeting Registrar at 310-437-0581 x 128 or registration@americanradiumsociety.org
A Message from the Program Chair

Dear Colleagues,

It’s my great pleasure and honor to welcome you to the 2017 American Radium Society meeting!

We have a terrific scientific program planned out for you. I would first like to take this opportunity to thank all of our speakers, panelists, moderators and presenters. Special thanks to Dr. Quynh Le, our ARS President, for all of her support, as well as our entire ARS Scientific Program Committee, for their hard work and dedication. Our ARS staff deserves credit for all their help in organizing the many details of this meeting.

We have created a diverse program this year that includes Self Assessment Module credits, a special SBRT Primer on GI and CNS tumors, a timely debate on the management of pancreas cancer, and new panels on breast and rectal cancer. Throughout this meeting, you will see aspects of our theme: “Clinical Trial Advancement through Multidisciplinary Integration of Immunotherapy”. Specifically our program includes National and International experts in clinical trial development and scientific breakthroughs in immunology. In addition, we have a session dedicated towards oligometastatic disease with a focus on multidisciplinary integration with radiation and immunotherapy. The scientific programs include novel, cutting edge original research from students, residents and faculty.

Most of all, please take this opportunity to interact with your colleagues and friends here at the meeting in a relaxed family-friendly environment. Join us as we enjoy the beautiful outdoors of Colorado Springs!

Sincerely,

Joseph Herman, MD, MSc,
Professor, MD Anderson Cancer Center
ARS Scientific Program Chair
New this year! EduCase SBRT eContouring Symposium

We'd like to invite you to the first EduCase SBRT eContouring Symposium at the ARS. The session will take place on Saturday, May 6, 2017 from 1:00 PM - 3:00 PM. The EduCase tool is used by professional radiation oncology societies as a part of special courses offered to teach segmentation skills. Featured contouring exercises and didactic cases discussions will include: Session 01: CNS with Kristin Janson Redmond, M.D., M.P.H. (Spine) and Christina I. Tsien, MD (Brain) Session 02: Hepatobiliary with Richard Tuli, M.D., Ph.D. (Pancreas) and Eugene J. Koay, MD, PhD (liver)

Cost: $35

Target Group
The contouring workshops are aimed at junior clinical or radiation oncologists who want to improve their contouring skills or at more senior specialists who want to refresh and validate their knowledge and skills in this field.

Workshop participants will be assigned and complete a series contouring exercises prior to each session where the presenting faculty will be able to compare participant's structures and evaluate contouring performance and display metric evaluation. Instructions and access permissions will be email to registered participants 3 weeks before workshop.

Don't Miss Out! Sign Up for These Scientific Sessions:

- Case-Based Tumor Board: Breast Cancer *
  Sunday, May 7, 2017 | 1:15 PM - 2:45 PM
- Case-Based Tumor Board: Rectal Cancer *
  Sunday, May 7, 2017 | 12:45 PM - 2:15 PM
*Registration and Payment required for this session. Space is limited.

Varian Medical Systems Industry Symposium
Sunday, May 7, 2017
4:00pm - 5:30pm

ViewRay Industry Symposium
Monday, May 8, 2017
4:00pm - 5:30pm

**This activity is not part of the official ARS scientific program.

Thank You to Our 2017 Supporters!
The ARS would like to thank the following companies for providing educational grants in support of the 99th Annual Meeting:

SILVER LEVEL
Elekta
Hitachi America, Ltd.
Mevion Medical Systems

BRONZE LEVEL
ViewRay

KEYNOTE SESSION
Bayer

*Supporters as of February 2017.

For more information regarding exhibitor or sponsorship opportunities, please contact Jenay Root at jenay@americanradiumsociety.org.
99th ARS Annual Meeting
Registration Form
May 6-9, 2017
The Broadmoor
Colorado Springs, CO

CONTACT INFORMATION
First Name: ___________________________ MI: __________________ Last Name: ___________________________
Institution: __________________________________________ Degrees: ___________________________
Address: __________________________________________ State/Province: _______ Postal Code: _______ Country: _______
Email: ___________________________ Phone: __________________ Fax: __________________

STEP 1: Registration Categories - Circle Registration Type to the Right

<table>
<thead>
<tr>
<th></th>
<th>ARS Member</th>
<th>Non-Member</th>
<th>Resident</th>
<th>Fellow</th>
<th>Medical</th>
<th>Student</th>
<th>TOTAL</th>
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<tr>
<td>Early Bird Rate - Through 3/1/17</td>
<td>$675</td>
<td>$925</td>
<td>$375</td>
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<td>Registration Rate - On or After 3/2/17</td>
<td>$775</td>
<td>$1,025</td>
<td>$475</td>
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STEP 2: Register for EduCase SBRT Course and Tumor Boards

<table>
<thead>
<tr>
<th>Event Description</th>
<th>ARS Member</th>
<th>Non-Member</th>
<th>Resident</th>
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<tr>
<td>Saturday, May 6, 2017: EduCase SBRT eContouring Symposium</td>
<td>$35</td>
<td>$35</td>
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<tr>
<td>Sunday, May 7, 2017: Case-Based Tumor Board: Breast Cancer</td>
<td>$50</td>
<td>$80</td>
<td>$50</td>
<td>$50</td>
<td>$50</td>
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<tr>
<td>Monday, May 8, 2017: Case-Based Tumor Board: Rectal Cancer</td>
<td>$50</td>
<td>$80</td>
<td>$50</td>
<td>$50</td>
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STEP 3: RSVP for Your Included Events

Saturday, May 6, 2017
Welcome Exhibit Opening Reception (RSVP Required) - 5:15 - 6:15pm
___ I Will Attend ___ I Will Not Attend

Sunday, May 7, 2017
Varian Industry Symposium (RSVP Required) - 4:00 - 5:30pm
___ I Will Attend ___ I Will Not Attend

Resident vs Faculty Medical Jeopardy (RSVP Required) - 5:30 - 7:00pm
___ I Will Attend ___ I Will Not Attend

Members/Non Members/Fellows/Medical Students: Would you like to volunteer to serve in one of the following roles: Judges, Game Assistants, Greeters. No thank you, I would rather watch

ARS Residents: Please indicate your desire to participate in jeopardy. First come, first serve basic until teams are full. Participants must be active ARS Resident/Fellow members.
___ I would like to participate on a Jeopardy team ___ No thank you, I would rather watch

ARS Social Event (RSVP Required) - 7:30 - 9:30pm
___ I Will Attend ___ I Will Not Attend

STEP 4: Register Accompanying Persons

Guest Registration includes: Welcome Reception, daily continental breakfast, access to the hospitality suite, and ARS Social Event. Guests over 12 require a guest badge; guests 12 and under do not need to be registered as guests.

<table>
<thead>
<tr>
<th>Guest Name</th>
<th>GUEST FEE</th>
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<tbody>
<tr>
<td>Guest 1</td>
<td>$375</td>
</tr>
<tr>
<td>Guest 2</td>
<td>$375</td>
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TOTAL AMOUNT DUE:

Special Needs or Dietary Restrictions:

PAYMENT INFORMATION:
___ I would like to pay by CHECK - Please make check payable in US funds to American Radium Society.

All checks must be accompanied by a fully completed registration form to ensure proper processing.

___ I would like to pay by CREDIT CARD ___ Visa ___ Mastercard ___ AMEX ___ Discover

Card #: ___________________________ Exp. Date: ____________

Verification Code (Visa/MC 3 digits on back of card. Amex 4 digits on front of card): ___________________________

Card Holder’s Name: ___________________________ Signature: ___________________________

Billing Zip Code: ___________________________

Terms & Conditions

- Cancellations must be submitted in writing before January 17, 2017 to receive a refund minus a US $100 administrative fee. Refunds will not be granted after this date and will not be given for no-shows. Submit cancellation requests to registration@americanradiumsociety.org or by fax at 310-437-0585.
- Membership will be verified; registrations at the member rate without valid corresponding membership will automatically be charged the non-member fee.

Please register online at www.americanradiumsociety.org/registration or complete the form and mail/fax to:
American Radium Society
11300 W. Olympic Blvd., Suite 600, Los Angeles, CA 90064 • www.americanradiumsociety.org
Ph: (310) 437-0581 • Fax: (310) 437-0585 • Email: registration@americanradiumsociety.org