

THE TIMES  
THEY ARE  
A-CHANGING:  
2025 VISION FOR  
RADIOLOGY



12<sup>th</sup> Biennial International  
Symposium of the  
International Society  
for Strategic Studies  
in Radiology

**IS3R  
2017**

Washington, D.C./US  
August 24–26, 2017

Scientific Program



"Come gather around people  
Wherever you roam  
And admit that the waters  
Around you have grown  
And accept it that soon  
You'll be drenched to the bone  
And if your breath to you is worth saving  
Then you better start swimming or you'll sink like a stone  
For the times they are a-changing"

*Bob Dylan 1964; Nobel Prize in Literature 2016*



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# LETTER FROM THE PRESIDENT



## Dear Participants,

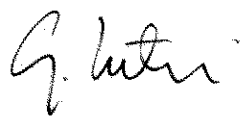
On behalf of the Executive Board of IS3R, I would like to welcome you to our 12<sup>th</sup> biennial symposium in Washington, D.C. After successful meetings in Asia (2013) and Europe (2011 and 2015), we are back to the East-Coast of the United States with a meeting that promises to be even better than all the previous ones. The venue of this year's symposium was carefully chosen by our local coordinator Hedi Hricak. You can be assured that the social events organized by Hedi will be unforgettable as they will take place in memorable locations enabling not only the usual networking among our members and corporate partners but also a glimpse of some of the outstanding attractions of the vibrant capital city.

I would like to congratulate Tom Grist – our Program Committee Chair – and his team for putting together an outstanding and visionary program. As usual, we will get the opportunity to listen to some ground-breaking key-note presentations on the three main topics of the conference. But – unlike in most previous meetings – we will have a lot more time for discussions and interactions with the participants. Our new format includes both plenary panel discussions and breakout sessions allowing in-depth elaboration of some disruptive ideas that may lead to a number of publications. Involving the leadership of major international and continental societies in the field of imaging will hopefully allow us to disperse our conclusions to a larger audience and in this way have an impact on future developments within our discipline and our profession.

These and many other new ideas were the result of extensive discussions within the Executive Board with participation of our distinguished Platinum Corporate Members. We organized retreats during the summer of 2016 and in early 2017 where we developed a new Vision and Mission for the IS3R along with a roadmap that will guide the society in the coming years. The outcomes were based on a SWOT analysis conducted among our members who provided many thoughtful opinions and suggestions. Given that it has been two (very successful!) decades since the establishment of IS3R we felt that it was time to revisit our strategies and adapt to the changing requirements in science and health-care. While many of the initial ideas of our founders are still valid today, we think that we need to adjust our communication policies, our interactions with our partners, as well as exploiting more efficiently the unequaled potential of our membership. You will hear more about these changes during the General Assembly of IS3R, and I hope that you will support them so that we can embark together on this exciting new journey.

I would like to thank the members of the Executive Board for their invaluable contributions during the past two years. It has been a real pleasure and honor to work with them. Now that my unexpected second term as President of IS3R comes to an end, I would like to express my gratitude to all our members and corporate partners for their support and trust. I am confident that our society will flourish and excel under the guidance of our incoming President Sam Gambhir, and I want to wish him a lot of success for the coming years.

Best wishes,



Gabriel P. Krestin, MD, PhD  
IS3R President

# LETTER FROM THE PROGRAM CHAIR



Dear Colleagues,

On the behalf of the Program Committee for our 12<sup>th</sup> Biannual International Symposium held this week in Washington, D.C., United States of America, August 24-26, 2017, it is our pleasure to present the final program and details for the meeting. We anticipate a thought-provoking meeting with lively discussion from a remarkable gathering of thought leaders in radiology, including perspectives from academic and industrial partners. This year's symposium will focus on three distinct areas: our strategy in an era of rapid developments in informatics and machine learning, image guided therapies, and radiology's value in population health. These areas were chosen by the Program Committee due to the remarkable developments we anticipate during the next five years' evolution of our specialty.

The first session focuses on the future radiologist as an imaging information expert, and delves into the opportunities and challenges of machine learning in our profession, how we develop our global radiology workforce in the era of artificial intelligence, and seeks to define next steps in our strategy for incorporating imaging informatics into our practice. In session two, we focus on image-guided therapy within and without radiology. We will discuss the role of quantitative imaging in treatment planning, identify the gaps in imaging technologies that are required for guiding surgery and other therapies, and seek to identify the opportunities and challenges associated with disseminating imaging technology to other disciplines. In session three, we will focus on radiology's value in the people we care for, including the role of imaging in value based healthcare systems, radiology's impact on population health, and how we demonstrate our value in the era of alternative funding models for taking care of our populations.

Our field of radiology is at the nexus of incredible changes in healthcare, influenced by tectonic forces in the development of artificial intelligence, political forces throughout the globe, and the realization that there have been tremendous contributions of imaging to improve human health. However, at the same time we recognize significant disparities in any individual's or nation's ability to leverage the benefits of advanced imaging. The symposium is highlighted by three keynote lectures presented by distinguished experts in their field, who will lead off each topic. These keynotes will lay the foundation for additional presentations from society members and will serve as a catalyst to stimulate discussions during more focused breakout sessions. In addition, we will have a special lecture from GE CEO John Flannery, who will share his experience with the digital transformation of General Electric.

A hallmark of our meetings is time for panel presentations and in depth discussions to facilitate the exchange of ideas. Our panel discussions have been restructured to allow for a more focused, intimate discussion of key elements of a particular topic, with the intention that the moderators of the sessions bring back the key points to the overall group. The goal of the breakout sessions is to develop an outline for key elements of publications on each of the topics.

We would like to thank the entire Program Committee for its extraordinary efforts in organizing this year's meeting. Together, we would also like to thank the IS3R office staff and the IS3R Executive Board for their support in preparing for the meeting. Finally, we would like to thank all of the invited speakers, moderators and panelists for their valuable contributions. It is our collective input that will make the meeting a success and serve as strategic guidance for our field during the next five years. We look forward to welcoming you to Washington, D.C.

Sincerely,

A handwritten signature in blue ink that reads "Thomas M. Grist". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Thomas M. Grist, MD, FACR  
Chair of the Program Committee

# ABOUT THE IS3R

## IS3R Executive Board

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## Vision of the IS3R

The IS3R shapes and guides the future of diagnostic and therapeutic imaging for the benefit of patients, our discipline and society as a whole.

## Mission of the IS3R

The mission of the IS3R is to actively shape the future of medical imaging and image-guided therapies by leveraging the knowledge and influence of world leaders in these disciplines and in related industries. By assessing the potential impact of disruptive innovations on global healthcare, the IS3R aims to inform and guide clinical practice, medical science and healthcare policy.

### COMPLIANCE COMMITTEE

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[Bruce Hillman](#) (Charlottesville/US)

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[Pek-Lan Khong](#) (Pokfulam Hong Kong/CN)

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## Administration

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# IS3R GOLD MEDAL



## Ronald L. Arenson, MD, FACR

Dr. Ronald L. Arenson will be awarded the 2017 IS3R Gold Medal at the 12<sup>th</sup> Biennial Symposium.

Dr. Arenson earned his medical degree from New York Medical College in 1970 before completing his internship at Beth Israel Medical Center in New York and his diagnostic radiology residency at Massachusetts General Hospital in Boston. He then began his academic career in 1976 at the University of Pennsylvania after serving in the U.S. Navy at the National Naval Medical Center in Bethesda, Maryland. During his time at the University of Pennsylvania, Dr. Arenson served as associate chairman of clinical services in radiology, director of administrative services and interim vice-provost for information systems and computing. In 1992, he joined the Department of Radiology and Biomedical Imaging at the University of California, San Francisco (UCSF), where he now serves as Alexander R. Margulis Distinguished Professor and department chair.

Throughout his career, Dr. Arenson has received many honours, including the Alumni Medal of Honor from the New York Medical College in 2001 and the Gold Medal of the Association of University Radiologists (AUR) in 2013. Dr. Arenson has received the Innovation and Leadership Award from the Radiology Research Alliance, the Visionary Leadership Award from the Society of Chairs of Academic Radiology Departments and the Holly Smith Award for leadership at UCSF. He has been an invited speaker at many events, including RSNA 2007 and the American Board of Radiology Foundation Summit.

Dr. Arenson has authored or co-authored over 110 peer-reviewed scientific articles, four book chapters, three books and numerous exhibits, abstracts and editorials. He has served on the editorial boards of several journals, including Radiology, Investigative Radiology, Journal of Digital Imaging, Academic Radiology and Journal of the American College of Radiology. Dr. Arenson has been an invited lecturer nationally and internationally at nearly 250 universities and institutes.

Dr. Arenson is a member of many medical societies and organisations of which he has been an active member during his career. These include the American College of Medical Informatics (ACMI), AUR, Society of Chairmen in Academic Radiology Departments (SCARD), Academy of Radiology Research (ARR) the American College of Radiology (ACR), and the International Society for Strategic Studies in Radiology (IS3R), over which he presided from 2007-2009. He is also a founding member of the Society for Imaging Informatics in Medicine (SIIM). Dr. Arenson holds fellowships in the ACR, ACMI and SIIM. He served as president of the AUR, SCARD and ARR, and served on the National Advisory Council of the National Institute of Biomedical Imaging and Bioengineering of the National Institutes of Health (NIH), as well as the NIH Council of Councils.

A member of RSNA since 1974, Dr. Arenson has served on numerous committees, including the Publications Council, Education Council, Public Information Advisors Network, Research Development Committee and the Radiology Informatics Committee, of which he served as chair from 1999 to 2005. In 2007, he was elected to the RSNA Board of Directors and has served as the Board liaison for the annual meeting and technology. He served as chair of the board from 2012 to 2013, and president in 2015. Dr. Arenson now serves on the Board of Trustees of the RSNA Research and Education Foundation.

# IS3R GOLD MEDAL



## Guy Frija, MD

Dr. Guy Frija will be awarded the 2017 IS3R Gold Medal at the 12<sup>th</sup> Biennial Symposium.

Dr. Frija received his medical degree in 1976 in Paris, France, where he later completed his residency. He also gained experience abroad early on in his career, having served as a resident at the University of Montreal in Canada in 1974.

A well-known figure among radiological societies around the world, he has served in a number of leadership roles throughout his career. Dr. Frija served as president of the European Society of Radiology (ESR) from 2013 to 2014 and the International Society for Strategic Studies in Radiology from 2005 to 2007. He also presided over the French Society of Radiology for 12 years, and is credited with making it one of the most important scientific societies in France today. He has also served as an advisor to the French Ministry of Health for the deployment of PACS and is a former consultant to the International Atomic Energy Agency (IAEA).

An expert in thoracic imaging and contrast products, Dr. Frija has also helped to introduce information technologies into daily radiological routine. These days, his main research focus is on radiation protection, and he has been involved in establishing guidelines and protocols in France and in Europe through the ESR Clinical Decision Support project.

Dr. Frija is currently professor emeritus of radiology at the University Paris-Descartes, and consultant at the imaging department of Paris Georges Pompidou European Hospital, where he previously served as chair. He is also a part-time professor of radiology at the faculty of health sciences at McMaster University in Ontario, Canada. He is a member of the scientific committee of the Institute for Radiological Protection and Nuclear Safety, co-chair of the imaging section of MEDICEN, a French competitiveness cluster specialising in biomedical imaging, and chair of the steering committee of EuroSafe Imaging. He is also clinical coordinator of MEDIRAD, a 10 million Euro research project funded by the European Commission, and co-chair of the International Society of Radiology Quality and Safety Alliance.

In recognition of his contributions to the field of radiology, Dr. Frija has been granted Doctor Honoris Causa by the University of Montreal and by the University Carol Davila of Bucharest, and honorary fellowship of several radiological societies. He was also appointed Knight of the French Order of the Legion of Honour in 2001.

# PROGRAM OVERVIEW

## Thursday, August 24

08:30 Opening and Welcome

### SESSION I: THE FUTURE RADIOLOGIST: THE IMAGING INFORMATION EXPERT

- 8:45 **KEYNOTE ADDRESS**  
Man and Machine: Opportunities and Challenges in Machine Learning for Radiologic Diagnosis  
(D. Disanzo)
- 9:30 **TOPIC A**  
Impact of Machine Learning on our Profession
- 10:45 **BREAKOUT SESSION 1**  
Machine Learning
- 13:15 **TOPIC B**  
Global Workforce Development
- 14:15 **BREAKOUT SESSION 2**  
Meeting the Challenges in Radiology Workforce Development and Education of our Trainees

16:15 Adjourn

16:30 **IS3R GENERAL ASSEMBLY**  
(members only)

## Friday, August 25

### SESSION I (CON.)

- 8:30 **TOPIC C**  
Imaging Informatics: What are our Next Steps?
- 9:45 **SPECIAL LECTURE**  
Providing Stakeholder Value through the Digital Transformation of GE: Opportunities and Challenges for a Global Enterprise  
(J. Flannery)

### SESSION II: IMAGE-GUIDED THERAPY WITHIN AND WITHOUT RADIOLOGY

- 10:30 **KEYNOTE ADDRESS**  
Imaging Guidance in Cancer Treatment: Opportunities and Challenges for the Partnership between Radiology and Radiation Oncology  
(J.-P. Pignol)
- 11:15 **TOPIC A**  
Quantitative Imaging and Treatment
- 13:15 **BREAKOUT SESSION 3**  
Quantitative Imaging and Treatment
- 14:45 **TOPIC B**  
What are the Gaps in Imaging Technology for Guiding Surgery and other Therapies?
- 16:00 **BREAKOUT SESSION 4**  
Risks and Rewards of Partnerships in Image-Guided Intervention
- 17:30 **TOPIC C**  
Dissemination of Imaging Technology to other Disciplines: Opportunity and Tension

18:00 Adjourn

## Saturday, August 26

### SESSION III: RADIOLOGY'S VALUE IN THE PEOPLE WE CARE FOR

- 8:30 **KEYNOTE ADDRESS**  
Transformation towards Value-Driven Healthcare: Impact on Imaging in 2025  
(T. Ferris)
- 9:15 **TOPIC A**  
Role of Imaging in Value-Based Healthcare Systems
- 9:45 **TOPIC B**  
Radiology and Population Health
- 11:00 **BREAKOUT SESSION 5**  
Demonstrating the Value of Imaging

### 12:30 SUMMARY AND CLOSING

13:00 Adjourn

# SCIENTIFIC PROGRAM SCHEDULE

## Thursday, August 24

08:30 Opening and Welcome

### SESSION I: THE FUTURE RADIOLOGIST: THE IMAGING INFORMATION EXPERT

Moderator: W. Brody

- 8:45 **KEYNOTE ADDRESS**  
Man and machine: Opportunities and challenges in machine learning for radiologic diagnosis  
D. Disanzo

### IMPACT OF MACHINE LEARNING ON OUR PROFESSION

- 09:30 Opportunities and challenges in machine learning for Radiology  
K. Dreyer
- 09:45 Opportunities and challenges in machine learning for Radiology  
D. Dennison
- 10:00 Machine learning in health care: A federal interagency working group perspective  
R. Pettigrew

10:15 Coffee Break

### 10:45 BREAKOUT SESSION 1: MACHINE LEARNING

Group 1 (Grand Ballroom BC):  
Machine learning is our hope for the future: How should we leverage it to improve health in 2025?

Moderators: U. Attenberger,  
C. Catalano

Panelists: W. Brody, H. Pien,  
R. Summers

Group 2 (Hirshhorn Room):  
Machine learning is a threat to our future: How do we adapt?

Moderators: L. Donoso, P. Khong

Panelists: A. Kaindl, P. Nagy,  
S. Ternovoy

Group 3 (Sackler Room): What are the opportunities and barriers to integration of image-based machine learning with other clinical data?

Moderators: N. Dunnick, Z. Jin

Panelists: O. Clément, B. Hillman,  
K. Karti

11:30 Breakout summary preparation and regroup in main hall

11:45 Breakout Sessions: Reports and discussion

12:15 Lunch

### GLOBAL WORKFORCE DEVELOPMENT

Moderator: N. Beauchamp

- 13:15 The impact of the informatics revolution on white collar workers  
C. Meltzer
- 13:30 How do we prepare the next generation of leaders in Imaging informatics?  
P. Nagy
- 13:45 What will the Radiologist's job look like in 2025?  
W. Kim
- 14:00 Impact of informatics revolution on Radiology workforce  
R. Cascella

### 14:15 BREAKOUT SESSION 2: MEETING THE CHALLENGES IN RADIOLOGY WORK FORCE DEVELOPMENT AND EDUCATION OF OUR TRAINEES

Group 1 (Grand Ballroom BC):  
Imagining the Radiologist's job in 2025

Moderators: C. Meltzer, A. Saindane

Panelists: D. Akata, R. Evens,  
B. Hamm

Group 2 (Hirshhorn Room):  
How do we prepare Radiologists for their future?

Moderators: J. Thrall, M. Fuchsjäger

Panelists: G. Frija, M. McHugh,  
V. Puppo

Group 3 (Sackler Room):  
How do we prepare allied health members of the Radiology workforce for the information revolution?

Moderators: R. Bryan, P. Parizel

Panelists: R. Garcia Monaco,  
C. Herold, P. Marquardt

15:00 Breakout summary preparation and regroup in main hall

15:15 Coffee Break

15:45 Breakout Sessions: Reports and discussion

16:15 Adjourn

16:30 **IS3R GENERAL ASSEMBLY**  
(members only)

19:00 **SOCIAL EVENT** at Charlie Palmer Steak  
Meeting point for bus transport in Grand Ballroom Foyer at 18:30

# SCIENTIFIC PROGRAM SCHEDULE

## Friday, August 25

### SESSION I (CONT.)

#### IMAGING INFORMATICS: WHAT ARE OUR NEXT STEPS?

Moderator: T. Grist

- 08:30 What are the barriers to implementation of informatics strategies identified by IS3R in 2015?  
*R. Arenson*
- 08:45 Will image reconstruction still be necessary, or can we mine raw data?  
*W. Niessen*
- 09:00 Cloudy ethics: Who owns my imaging data?  
*D. Le Bihan*
- 09:15 Using informatics to improve our collaborations with referring physicians and patients  
*M. Recht*

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9:30 Coffee Break

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- 09:45 **SPECIAL LECTURE**  
Providing stakeholder value through the digital transformation of GE: Opportunities and challenges for a global enterprise  
*J. Flannery*

### SESSION II: IMAGE-GUIDED THERAPY WITHIN AND WITHOUT RADIOLOGY

Moderator: G. Krestin

- 10:30 **KEYNOTE ADDRESS**  
Imaging guidance in cancer treatment: Opportunities and challenges for the partnership between Radiology and Radiation Oncology  
*J.P. Pignol*

#### QUANTITATIVE IMAGING AND TREATMENT

- 11:15 Impact of quantitative imaging on treatment decisions  
*M. Reiser*
- 11:30 Panel Discussion: Beyond RECIST for treatment planning: Role of CT, MRI, US and PET in Radiation Oncology in 2025  
*Moderator: C. Claussen*
  - a. Role of new CT technologies in treatment planning  
*N. Pelc*
  - b. Role of MRI in Radiation Oncology treatment planning  
*H. Hricak*
  - c. Role of PET in treatment planning  
*G. von Schulthess*
  - d. Role of Ultrasound in treatment planning  
*S. Sireci Jr.*

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12:15 Lunch

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- 13:15 **BREAKOUT SESSION 3: QUANTITATIVE IMAGING AND TREATMENT**  
  
Group 1 (Grand Ballroom BC): Opportunities and challenges for quantitative CT in treatment planning  
*Moderators: C. Herold, N. Pelc*  
*Panelists: C. Corot, H. Gharbi, A. Hartung*

Group 2 (Hirshhorn Room): Opportunities and challenges for quantitative MRI in treatment planning  
*Moderators: H. Hricak, M. Kircher*  
*Panelists: T. Balzer, F. Djeridane, I. Gipp, S. Schönberg*

Group 3 (Sackler Room): Opportunities and challenges for quantitative PET in treatment planning

*Moderators: O. Ratib, K. Riklund*  
*Panelists: J. Debatin, H. Honda, J. Lewis*

- 14:00 Breakout summary preparation and regroup in main hall
- 14:15 Breakout Sessions: Reports and discussion

#### WHAT ARE THE GAPS IN IMAGING TECHNOLOGY FOR GUIDING SURGERY AND OTHER THERAPIES?

Moderator: X. Feng

- 14:45 Role of radiologists in image guidance within the OR  
*S. Schönberg*
- 15:00 Advances in visualization technologies that will impact radiology in 2025  
*G. Rubin*
- 15:15 Interventional Oncology in 2025 and beyond  
*S. Solomon*

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15:30 Coffee Break

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#### 16:00 BREAKOUT SESSION 4: RISKS AND REWARDS OF PARTNERSHIPS IN IMAGE GUIDED INTERVENTION

Group 1 (Grand Ballroom BC): What are the gaps in imaging technology for guiding surgery and other therapies?

*Moderators: N. Beauchamp, B. Choi*  
*Panelists: T. Maeda, A. Palkó, R. Weissleder*

Group 2 (Hirshhorn Room): What are the risks for Radiology's partnership with other specialties or programs?

*Moderators: S. Baum, D. Bluemke*  
*Panelists: N. Dunnick, R. Mather, V. Sinitsyn*

Group 3 (Sackler Room):  
What are the rewards for  
Radiology's partnership with  
other specialties or programs?  
*Moderators: P. Grenier, G. Rubin*  
*Panelists: C. Catalano, K. Soyebi*

16:45 Breakout summary preparation and  
regroup in main hall

17:00 Breakout Sessions: Reports and  
discussion

#### DISSEMINATION OF IMAGING TECHNOLOGY TO OTHER DISCIPLINES: OPPORTUNITY AND TENSION

*Moderator: W. Bradley*

17:30 Perspective from industry regarding  
imaging technology in other  
disciplines: The opportunities  
*W. Märzendorfer*

17:45 Perspective from industry regarding  
imaging technology in other  
disciplines: The challenges  
*T. Takiguchi*

---

18:00 Adjourn

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19:00 SOCIAL EVENT at The Kreeger  
Museum  
Meeting point for bus transport in  
Grand Ballroom Foyer at 18:30

## SCIENTIFIC PROGRAM SCHEDULE

### Saturday, August 26

#### SESSION III: RADIOLOGY'S VALUE IN THE PEOPLE WE CARE FOR

*Moderator: J. Brink*

8:30 KEYNOTE ADDRESS  
Transformation towards value-driven  
health care: Impact on imaging in  
2025  
*T. Ferris*

#### ROLE OF IMAGING IN VALUE-BASED HEALTHCARE SYSTEMS

9:15 What is "value" and how do we  
measure it?  
*D. Enzmann*

9:30 Impact of tools developed for  
constrained environments: What can  
we learn from developing nations?  
*B. Jankharia*

#### RADIOLOGY AND POPULATION HEALTH

*Moderator: S. Seltzer*

9:45 Role of radiology in population-based  
reward systems  
*J. Brink*

10:00 Sensors and small devices in health  
care: How will they impact imaging  
diagnostics?  
*S. Gambhir*

10:15 What role do multicenter trial  
organizations have in demonstrating  
our value?  
*M. Schnall*

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10:30 Coffee Break

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11:00 BREAKOUT SESSION 5:  
DEMONSTRATING THE VALUE OF  
IMAGING

Group 1 (Grand Ballroom BC):  
Role of imaging in value-based  
healthcare systems

*Moderators: J. Dai, B. McNeil*  
*Panelists: R. Illing, S. Seltzer, H. Xue*

Group 2 (Hirshhorn Room):  
Radiology and population health  
*Moderators: F. Gilbert, J. Sosna*  
*Panelists: C. Corot, G. Krestin,*  
*J. Thrall*

Group 3 (Sackler Room):  
Translating to clinical practice  
*Moderators: M. Dewey, H. Kressel*  
*Panelists: X. Feng, C. Niehaus,*  
*N. Osakabe, K. Riklund*

11:45 Breakout summary preparation and  
regroup in main hall

12:00 Breakout Sessions: Reports and  
discussion

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12:30 SUMMARY  
*H. Ringertz*

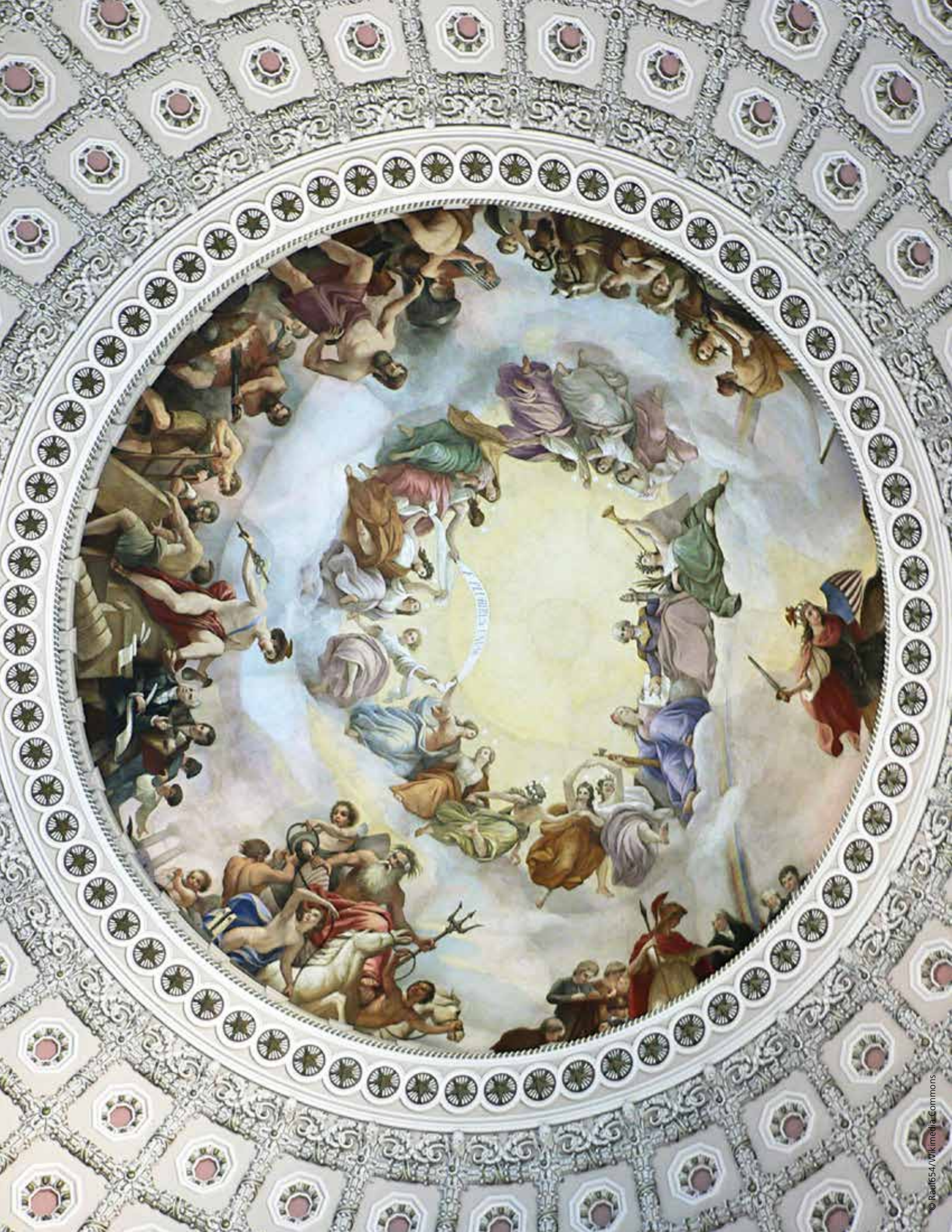
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12:45 CLOSING  
*T. Grist & G. Krestin*

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13:00 Farewell Lunch

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## Hotel Information

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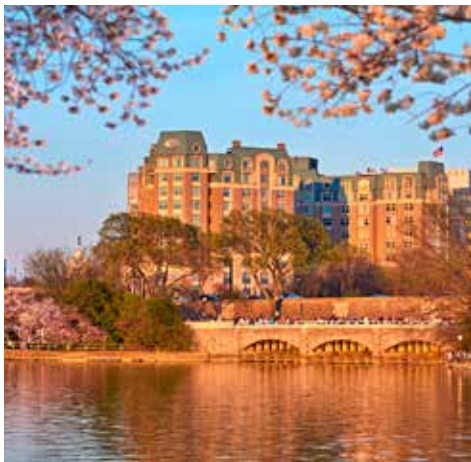
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A short walk from some of the nation's most cherished monuments, Mandarin Oriental, Washington, D.C. offers five-star luxury in the heart of the US capital. With legendary service and extensive facilities, this elegant hotel is the perfect urban retreat. Close to Capitol Hill and the Smithsonian Institute, the Mandarin exudes a refined sense of style with beautiful rooms, a serene spa, excellent dining and an elegant setting in one of the world's most intriguing cities.



# PRACTICAL INFORMATION

## Certificate of Attendance

Participants who would like to receive a certificate certifying their attendance at the symposium are encouraged to request one from the registration desk (located outside the main lecture hall) before adjournment on Saturday.

## Credit Cards/Currency Exchange

Major Credit Cards are accepted. An ATM is available on the ground floor of the hotel (down the hall from the reception area opposite the Garden Rooms). The hotel reception provides currency exchange for guests staying at the hotel. The closest exchange office is located at 1800 K St. NW, open 9:00 AM to 7:00 PM (15 minute cab ride).

## Insurance

Neither the IS3R nor the symposium organizers can accept liability for personal injury, or loss/damage to property, personal or otherwise, belonging to meeting participants or accompanying persons, either during or as a result of the symposium or during all tours or their stay in Washington, DC. Participants and accompanying persons should ensure that their own personal health, accident and/or travel insurance are up-to-date and valid for use in Washington, DC.

## Meals

Buffet breakfast is included at the Mandarin Oriental and will be served in Grand Ballroom A for all guests during the symposium (August 24-26). Business lunch buffet for all Symposium participants will be provided in Grand Ballroom A, coffee breaks are served in the Grand Ballroom Foyer outside the main lecture hall. In case you are staying at Mandarin before or after these dates, please note that, on all other mornings, breakfast is available in the hotel restaurant Muze at participants' expense. Thank you for your understanding that the IS3R does not provide lunch and coffee breaks for accompanying persons.

## Official Language

English (no translation of the meeting will be provided).

## Recording

Audio or video recording any part of the symposium without prior express permission is prohibited.

## Registration Desk

Staff at the symposium registration desk will be available on Wednesday afternoon from 15:00–17:00, as well as during the symposium hours from Thursday to Saturday. The registration desk is located outside the main lecture hall.

## Smoking Policy

The meeting venue and hotel rooms are fully non-smoking. Smoking is only permitted on the front drive.

## Speaker Ready Room

Speakers are kindly requested to upload their presentation at the Speaker Ready Room located in the Corcoran Room close to the main lecture hall at least 90 minutes before the session starts. At the Speaker Ready Room, participants are moreover asked to complete a conflict of interest form and sign a presentation release consent form for archiving purposes and use in pdf format in the protected members area on the IS3R website.

## Tourist Information

The Mandarin Oriental's Concierge team will be happy to assist you with local information for sightseeing in D.C., booking optional tours, making dinner reservations or any questions regarding your accommodations.

# SOCIAL EVENTS

## WEDNESDAY 19:00-20:30

Welcome reception at the Mandarin Oriental. Drinks and light hors d'oeuvres will be served in the hotel garden.

Dress code: Smart casual



## THURSDAY at 19:00

Cocktails and dinner will be held on the rooftop terrace at Charlie Palmer Steak. Located off Capitol Hill, this unique location offers the city's most impressive view of the Capitol Building and the open expanses of the National Mall. Much more than a steakhouse, the restaurant is widely known for its award-winning cuisine with inspiring all-American wine selections.

Transport is provided

Dress code: Business casual attire, jacket not required

Meeting point for bus transport is in the Grand Ballroom Foyer on the lower level (escalator from the hotel lobby) at 18:30



## FRIDAY at 19:00

The IS3R Gold Medal Dinner will be held at The Kreeger Museum. A masterpiece of Modernist architecture, The Kreeger Museum is a unique and coveted venue. Designed by Philip Johnson in 1963 and completed in 1967, the building offers the Picasso-filled Great Hall, intimate Monet Gallery, elegant Sculpture Terrace and expansive Contemporary Sculpture Garden surrounded by woods. Inside and out, The Kreeger Museum is replete with stunning modern and contemporary art.

Dress code: Dinner attire, jacket required

Meeting point for bus transport is in the Grand Ballroom Foyer on the lower level (escalator from the hotel lobby) at 18:30



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12<sup>th</sup> Biennial International  
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August 24–26, 2017

Scientific Program