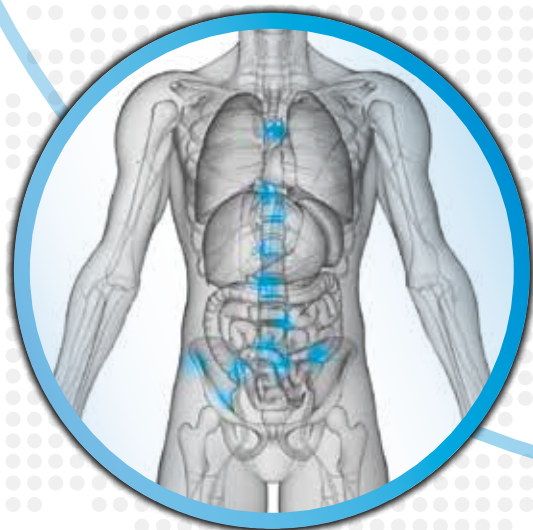


IMAGING FOR THE WORLD THE NEXT FIVE YEARS



10th Biennial International
Symposium of the
International Society
for Strategic Studies
in Radiology

IS³R 2013

Beijing/China
August 29–31, 2013

Scientific Program

IMPRINT

Vienna, August 2013

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Coordination: Pamela F. Mechler, Monika Hierath

Design: Sonja Huber, www.diehuber.at



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LETTER FROM THE PRESIDENT



Dear Colleagues,

It is my great pleasure to welcome you to the 10th Biennial International Symposium of the IS³R, August 29-31, in Beijing, China. This will be the society's first meeting in Asia, and we are excited by the opportunity to connect with an even broader swath of the global medical community.

We have a truly wonderful program ahead, full of both intellectually stimulating presentations and discussions and elegant social events. As the 10th Biennial Symposium represents a significant milestone for the society, we will mark the occasion with an anniversary dinner on Friday evening at the Beijing Hong Kong Jockey Club Clubhouse, which will include the presentation of the first IS³R Gold Medal. I hope you will join in the celebration, which will be a memorable affair in a unique and beautiful setting.

I wish to extend my heartfelt thanks to Jian-Ping Dai, who graciously agreed to be our local host. His guidance and input at every step of the meeting planning have been invaluable. My profound gratitude also goes to Jim Thrall for taking the lead in developing this year's program. His dedication and vision are largely responsible for the outstanding content we have lined up. I would also like to thank Bernd Hamm, who provided valuable insights on topics for the committee's consideration, and the members of the program committee, who all contributed considerable time, effort and wisdom.

This year, as always, the exchange of ideas between academia and industry will be a vital part of the symposium. On behalf of the entire society, I wish to thank our corporate members, who are listed on the final page of the program.

Finally, as my presidency draws to a close, I would like to thank the Executive Board and society officers for their commitment to the society's success. I congratulate Gabriel Krestin as he assumes the presidency and I am confident that the IS³R will benefit from his expertise and guidance.

On the eve of the 10th Biennial Symposium the society continues to flourish and develop new initiatives. The symposium – the society's lifeblood – has always been an invigorating and enjoyable event, and this year's will be no exception.

Best wishes,

A handwritten signature in black ink, reading "Hedvig Hricak". The signature is written in a cursive, flowing style.

Hedvig Hricak, MD, PhD, Dr. h.c.
IS³R President

LETTER FROM THE PROGRAM CHAIRS



Dear Colleagues,

On behalf of the program committee for our 10th Biennial International Symposium held this week in Beijing, China, August 29-31, 2013, it is our pleasure to give you the final program and details for the meeting. We anticipate a very thought-provoking and lively discussion from our usual gathering of academic, clinical, and industrial leaders.

This year's symposium will focus on two primary areas: Precision Medicine and Imaging for the World. Establishing genotype and phenotype for individual patients results in more precise diagnosis and allows more precise selection of therapy. Image findings are a proxy for phenotype manifestation of disease. To remain relevant imaging must play an increasingly visible role in defining disease phenotypes and in assessing response to genotype guided therapy. Building on the precision medicine discussion days two and three of the program will focus on how imaging is being applied in health systems in different stages of development. Important considerations are infrastructure readiness, availability of trained personnel, economic impacts, research opportunities and the effects of different regulatory environments.

Three keynote lectures will be presented by distinguished members to lay the foundation for continued conversations on the topics of imaging in the world of precision medicine, the future of molecular imaging, and imaging in the developing world. A hallmark of our meetings is time for panels and interactive discussions to facilitate the exchange of ideas. We have tailored the program to ensure that there is sufficient time after each session for these discussions. As in the past we will prepare a white paper summary of the meeting outcomes which will be published in a major journal and widely distributed.

This year marks a special milestone for the society as it is the 10th Biennial Symposium. The society's first meeting was organized by Stephen Golding and Alex Margulis and held at St. John's College in Oxford, UK, in August 1995. Through their foresight and the contributions of many dedicated members we have grown into the robust organization you experience today. The symposium has always been a vital part of the society and we wish to thank all of the speakers, moderators, and panelists who will make this meeting a success.

Lastly, we extend our thanks to Dr. Hedi Hricak, President, and the rest of the IS³R board for their support in preparing for the meeting. We look forward to welcoming you in Beijing.

With best regards,

James H. Thrall, MD
Chair
IS³R Program Committee

Jian-Ping Dai, MD
Co-Chair and Local Host
IS³R Program Committee

Bernd K. Hamm, MD
Co-Chair
IS³R Program Committee

ABOUT THE IS³R

Mission of the IS³R

The International Society for Strategic Studies in Radiology is a non-political, not-for-profit organization whose purpose is to define and investigate strategic, scientific and economic issues of global importance to the field of radiology.

By forming a partnership between academia and industry, the Society seeks to anticipate national and global developments in radiology and allied fields, define areas of common interest to both partners, and encourage cooperation. It aims to communicate important issues to radiologists, physicians in other medical fields, industry and governments, and to influence healthcare management and the flow of financial and human resources into the scientific and strategic fields most likely to advance biomedical imaging and patient care.

IS³R Executive Board

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Pek-Lan Khong (Pokfulam Hong Kong/CN)

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Moshe Graif (Tel Aviv/IL)

Sachio Kuribayashi (Tokyo/JP)

András Palkó (Szeged/HU)

Norbert J. Pelc (Stanford/US)

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Jian-Ping Dai (Beijing/CN)

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Jonathan S. Lewin (Baltimore/US)

Maximilian F. Reiser (Munich/DE)

Kazuro Sugimura (Kobe/JP)

Gustav von Schulthess (Zurich/CH)

PROGRAM COMMITTEE

Chair

James H. Thrall (Boston/US)

Co-Chair and Local Host

Jian-Ping Dai (Beijing/CN)

Co-Chair

Bernd K. Hamm (Berlin/DE)

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Members

Norman J. Beauchamp (Seattle/US)

Christian J. Herold (Vienna/AT)

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Alexander R. Margulis M.D., Dr. h.c. (mult.)

Dr. Alexander R. Margulis will be awarded the 2013 IS³R Gold Medal at the 10th Biennial Symposium.

Alexander R. Margulis is Professor Emeritus in the Department of Radiology, Weill Cornell Medical College of Cornell University. He earned his MD degree from Harvard Medical School in 1950. For 26 years – from 1963 to 1989 – he served as Professor and Chair, Department of Radiology, University of California, San Francisco (UCSF), creating a model academic clinical department of radiology that included many outstanding basic scientists. Under his enlightened and steadfast leadership, the members of his department added many new dimensions to the field of biomedical imaging, establishing the discipline of radiobiology through federally-funded laboratory work, and pioneering a range of new imaging technologies and applications, from MRI to interventional radiology (both terms that Dr. Margulis coined). Following his remarkable tenure as department chair, Dr. Margulis was appointed Associate Chancellor (1989-1993) and Special Consultant to the Vice Chancellor (1993-1999). In recognition of his contributions for exceptional service to UCSF, in 2000 Dr. Margulis received the University of California medal. In 2000 Dr. Margulis moved to New York, where he took on a position as Clinical Professor of Radiology at Weill Medical College of Cornell University, New York.

Dr. Margulis' entire career has been marked by extraordinary vision, the impact of which continues to be felt by physicians, scientists, and patients around the world. Time and time again, he has opened the eyes of the medical community to the potential of new imaging technologies and to the educational

and organizational efforts needed to move biomedical imaging forward to more promising ground. In 1971, having recognized the need for organ-based subspecialization in radiology, he founded the Society of Gastrointestinal Radiologists (which later became part of the Society of Abdominal Radiology). In 1980, when MRI had only just begun to be applied in clinical research, Dr. Margulis co-founded the International Society of Magnetic Resonance in Medicine. Furthermore, the International Society for Strategic Studies in Radiology (IS³R) was itself largely the brainchild of Dr. Margulis, who realized long before the advent of the Internet that the field of radiology was truly global, and that high-level international collaboration was required to help it meet global medical challenges.

Dr. Margulis has also made tremendous contributions to the field of biomedical imaging through his own research in gastrointestinal radiology and has published more than 280 manuscripts and 21 books. He is widely recognized and lauded for his teaching and mentorship. While at UCSF, he established international research radiology fellowships, with fellows selected and funded by their own universities in Europe and Asia; after learning how to do research – and often receiving inspiring professional mentorship from Dr. Margulis – the fellows returned to their countries and proceeded to greatly advance the field of imaging worldwide. His contributions as a teacher were most recently recognized in June 2013, he received the teaching award from the Department of Radiology, Weill Cornell Medical College of Cornell University.

In recognition of Dr. Margulis' unique and stellar contributions to the field of biomedical imaging, two endowed positions have been named for him – the Alexander R. Margulis Professorship in Molecular Radiology at Weill Cornell Medical College, and the Alexander R. Margulis Professorship at UCSF, which is filled by the chairman of the department of radiology and bio-imaging at that institution. Dr. Margulis has received other honors and awards too numerous to list here. These include eight honorary doctorates in medicine, awarded between 1980 and 2005 (from, in chronological order, Aix-Marseille University, Aix-en-Provence and Marseille, France; Université Catholique de Louvain, Louvain-La-Neuve, Belgium; Medical College of Wisconsin, Milwaukee, USA; Karolinska Institute, Stockholm, Sweden; Ludwig Maximilian University, Munich, Germany; Université Paul Sabatier, Toulouse, France; Université de Montpellier, Montpellier, France; and University of Novi Sad, Novi Sad, Serbia). He is a member of the Institute of Medicine of the National Academies in the USA, and a "foreign" member of both the Serbian Academy of Arts and Sciences and the Russian Academy of Medicine. He has received multiple gold medals, honorary medals and honorary memberships.

Since co-founding the IS³R, Dr. Margulis has continued to ensure its vivacity by attracting key leaders from industry and academia from around the world to take part in it. It is with gratitude for his founding of and invaluable service to the society, as well as for his many years of courageous and visionary leadership in the field of biomedical imaging, that the IS³R awards Dr. Margulis its 2013 Gold Medal.

PROGRAM OVERVIEW

Thursday, August 29*

07:00 Registration

08:00 Welcome and Opening Remarks

08:40 **SESSION I: PRECISION MEDICINE**

10:20 Break

10:40 **INDUSTRY VIEWS OF PRECISION
MEDICINE**

12:00 Lunch

13:00 **SESSION II: PRECISION MEDICINE**

14:45 Break

15:10 **PRECISION MEDICINE AND
INTERVENTIONAL RADIOLOGY/
IMAGE-GUIDED THERAPY**

16:20 **PANEL DISCUSSION:
PRECISION MEDICINE: THE ROLE
OF MOLECULAR IMAGING AND
IMAGE-GUIDED INTERVENTION –
A LOOK INTO THE FUTURE**

17:00 Adjourn

17:10 **IS³R General Assembly
(members only)**

19:30 **SOCIAL EVENT
at MAISON BOULUD**

Friday, August 30*

08:30 **SESSION III: IMAGING
FOR THE WORLD**
Keynote address:
Imaging for the world
(in honour of Gary Glazer)

09:00 **CONCEPT OF RADIOLOGY
READINESS ASSESSMENT FOR
COUNTRIES**

10:10 Break

10:35 **SOCIAL RESPONSIBILITY**

11:35 **TRENDS IN ASIA**

12:35 Lunch

13:35 **ECONOMICS IN DEVELOPING
COUNTRIES**

15:15 Break

15:40 **CHALLENGES OF WORKING IN
DEVELOPING COUNTRIES**

16:30 **PANEL DISCUSSION: TRENDS IN
ASIA – DIFFERENT MARKETS/
DIFFERENT CHALLENGES**

17:15 Adjourn

18:30 **SOCIAL EVENT
at BEIJING HONG KONG JOCKEY
CLUB CLUBHOUSE**

Saturday, August 31*

08:30 **SESSION IV:
IMAGING FOR THE WORLD:
Research and Radiation Dose
International research opportunities
and concerns – Examples of
international research in imaging –
what are they, how are they
organized, how are they done?**

09:50 **PANEL DISCUSSION:
INTERNATIONAL RESEARCH
OPPORTUNITIES**

10:30 Break

10:55 **IT BEYOND RIS AND PACS:
DATA MINING, KNOWLEDGE
MANAGEMENT AND WORK
PROCESS CONTROL**

11:55 **SESSION V: SUMMARY AND
CONCLUSION**

12:30 **FAREWELL LUNCH**

15:00 **SOCIAL EVENT**

*All sessions take place in Grand Ballroom II.

SCIENTIFIC PROGRAM SCHEDULE

Thursday, August 29

OPENING SESSION

Moderators: H. Hricak, J.P. Dai

- 08:00 **Opening Remarks**
J.P. Dai
- 08:10 **Welcome from the IS³R President**
H. Hricak
- 08:20 **Welcome from the President of the Chinese Medical Association**
Chen Zhu

SESSION I: PRECISION MEDICINE

Moderators: L. Donoso, C. Meltzer

- 08:40 **Keynote address: Imaging in the age of precision medicine**
J. Thrall
- 09:05 **Genotype versus phenotype: What can imaging provide?**
G. Krestin
- 09:30 **Integrated diagnostics and radiogenomics**
H. Hricak
- 09:55 **Patient outcomes: How can they be linked to imaging?**
G. Cerri

10:20 Break

INDUSTRY VIEWS OF PRECISION MEDICINE

Moderators: G. Cerri, C. Claussen

- 10:40 **General Electric**
T. Gentile
- 11:00 **Siemens**
H. Requardt
- 11:20 **Philips**
H. Pien
- 11:40 **Bayer**
C. Pering

12:00 Lunch

SESSION II: PRECISION MEDICINE

Moderators: G. von Schulthess, N. Bryan

- 13:00 **Keynote Address: Advancing precision medicine through biomedical imaging and devices**
R. Pettigrew
- 13:25 **Imaging biomarkers: Development and acceptance I**
M. Schwaiger
- 13:40 **Imaging biomarkers: Development and acceptance II**
O. Ratib
- 13:55 **Decision support: Guidelines and referral criteria**
- The US Experience
N. Bryan
- The EU Experience
G. Frija
- 14:25 **Quality in the age of precision medicine**
P. Grenier

14:45 Break

PRECISION MEDICINE AND INTERVENTIONAL RADIOLOGY/ IMAGE-GUIDED THERAPY

Moderators: L. Bonomo, B. Hamm

- 15:10 **What is on the horizon: Interventional radiology and image-guided therapy?**
S. Solomon
- 15:40 **Intraoperative imaging and image guided radiation therapy: Keeping radiology relevant**
R. Dunnick

- 16:00 **Interventional radiology: Fire and water or our survival package for the future?**
D. Enzmann

- 16:20 **PANEL DISCUSSION: PRECISION MEDICINE: THE ROLE OF MOLECULAR IMAGING AND IMAGE-GUIDED INTERVENTION – A LOOK INTO THE FUTURE**
Moderators: M. Graif, J. Thrall

R. Dunnick, C. Herold, H. Hricak, G. Krestin, G. Sorensen

17:00 Adjourn

- 17:10 **IS³R GENERAL ASSEMBLY (members only)**

- 19:30 **SOCIAL EVENT at Maison Boulud**
Buses will depart from the Grand Hyatt at 18:45.

SCIENTIFIC PROGRAM SCHEDULE

Friday, August 30

SESSION III: IMAGING FOR THE WORLD

Moderators: A. Margulis, M. Prokop

- 08:30 Keynote address:
Imaging for the world
(in honour of Gary Glazer)
C. Herold

CONCEPT OF RADIOLOGY READINESS ASSESSMENT FOR COUNTRIES

Moderators: A. Margulis, M. Prokop

- 09:00 Infrastructure readiness
E. Azene
- 09:20 Communications systems
C. Catalano
- 09:40 Development of radiology in Eastern Europe: Progress and challenges
- Experience in Russia
V. Siniitsyn
- Experience in Croatia and SEE (South East Europe) countries
B. Brkljacic

10:10 Break

SOCIAL RESPONSIBILITY

Moderators: P. Khong, H. Kressel

- 10:35 Access to imaging services in developing countries
V. Jackson
- 10:55 Outreach between countries – bridging the knowledge gap
G. Choy
- 11:15 Is there a good way to perform peer review?
A. Dixon

TRENDS IN ASIA

Moderators: W. Bradley, L. Tan

- 11:35 Radiology trends in China
X. Feng
- 11:50 Radiology trends in Korea
B. Choi
- 12:05 Radiology trends in Japan
H. Honda
- 12:20 Radiology trends in Japan, Korea, and China
K. Sugimura

12:35 Lunch

ECONOMICS IN DEVELOPING COUNTRIES

Moderators: O. Clément, D.I. Kim

- 13:35 Impact of imaging on the economy and health system finances
A. Palkó
- 13:55 Utilization management – over and underutilization of imaging: Still a concern?
M. Reiser
- 14:10 Potential for international registries for utilization and dose reporting
P. Ellenbogen
- 14:35 How to make technology more affordable
G. Rubin
- 14:55 Can simpler systems get the job done? – Role of ultrasound
H. Gharbi

15:15 Break

CHALLENGES OF WORKING IN DEVELOPING COUNTRIES

Moderators: R. Dunnick, S. Ternovoy

- 15:40 Supply chain, sourcing, and regulatory trends in China and Asia
J. Sommer
- 16:05 Local sourcing and production to meet market needs
B. Montag

16:30 PANEL DISCUSSION: TRENDS IN ASIA – DIFFERENT MARKETS/DIFFERENT CHALLENGES

Moderators: X. Feng, J. Lewin

Guerbet TBA, D. Harding, S. Lorenc, R. Mather, A. Spinazzi, W. Spittle, F. Wu

17:15 Adjourn

18:30 SOCIAL EVENT at the Beijing Hong Kong Jockey Club Clubhouse

Buses will depart from the Grand Hyatt at 17:45.

SCIENTIFIC PROGRAM SCHEDULE

Saturday, August 31

SESSION IV: IMAGING FOR THE WORLD: RESEARCH AND RADIATION DOSE

INTERNATIONAL RESEARCH OPPORTUNITIES AND CONCERNS – EXAMPLES OF INTERNATIONAL RESEARCH IN IMAGING – WHAT ARE THEY, HOW ARE THEY ORGANIZED, HOW ARE THEY DONE?

Moderators: L. Donoso, Z. Jin

08:30 International collaborative
research

M. Schnall

08:50 International collaborative
research II

S. Schönberg

09:10 Research aimed at special
issues of the developing
world

N. Beauchamp

09:30 International initiatives in
radiation dose

C. Cousins

09:50 **PANEL DISCUSSION:**
INTERNATIONAL RESEARCH
OPPORTUNITIES

Moderators: M. Schnall, R. Günther

D. Gur, Y. L'Epine, B. Loo,
M. Makhija, R. Mather, N. Pelc,
F. Tranquart

10:30 Break

IT BEYOND RIS AND PACS: DATA MINING, KNOWLEDGE MANAGEMENT AND WORK PROCESS CONTROL

Moderators: P. Aspelin, M. Reiser

10:55 Data mining: Turning data
into knowledge

R. Arenson

11:15 Optimizing imaging
department operations
through IT systems:
Data reporting & analysis

J. Lewin

11:35 Mobile media

R. Garcia Monaco

SESSION V: CONCLUSION

11:55 Meeting Summary

H. Ringertz

12:20 Concluding Remarks and
IS³R Announcements

H. Hricak, G. Krestin

12:30 FAREWELL LUNCH

15:00 SOCIAL EVENT

VENUE DETAILS AND PRACTICAL INFORMATION

Venue

Grand Hyatt Beijing

1 East Chang An Avenue
Beijing, People's Republic of China 100738

Phone: +86 10 8518 1234

Fax: +86 10 8518 0000

Web: www.beijing.grand.hyatt.com

The Grand Hyatt Beijing is a five-star hotel, located in the heart of the city and within walking distance of The Forbidden City and Tiananmen Square. Wangfujing Street, adjacent to the hotel, is a preferred shopping hub for traditional silk shops, tea houses and department stores.



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 meeting room) before adjournment on Saturday.

Credit Cards/Currency Exchange

Currency exchange is located at the Front Office Reception desk in the main lobby of the hotel for 24-hour foreign currency exchange and cashing of travelers' checks. Grand Hyatt Beijing is directly connected to The Malls at Oriental Plaza which includes several banks with ATM's for your convenience.

Major Credit Cards (AMEX, VISA, Master Card) are accepted. Chinese currency is the Yuan Renminbi (CNY).

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 Beijing. 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 Beijing.

Meals

Buffet breakfast is included at the Grand Hyatt Beijing. Business lunch and coffee breaks for all participants will be provided. 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

Staff at the symposium registration desk will be available on Wednesday evening from 15:30–17:30, as well as during the symposium hours from Thursday to Saturday. They will assist you with local information for sightseeing in Beijing, booking optional tours, or any questions regarding your accommodations.

Smoking Policy

The symposium meeting sessions are non-smoking. Smoking rooms are available upon request for meeting attendees.

Speakers' Center

Speakers are kindly requested to upload their presentation at the Speakers' Center (Drawing Room I) at least 90 minutes before the session starts.

SOCIAL EVENTS

WEDNESDAY at 18:00–19:00

Welcome cocktail reception at the Grand Hyatt Beijing. Drinks and light hors d'oeuvres will be served.

Dress code: Smart casual

THURSDAY at 19:30 p.m.

Cocktails and dinner will be held at Maison Boulud – chef Daniel Boulud's restaurant in Beijing. The majestic manor house, popularly known as CH'IEN MEN 23, is located yards away from Tiananmen Square, possibly China's most prestigious and culturally relevant location. CH'IEN MEN 23 has a storied past as the former United States Embassy to the Qing Empire and later becoming the Beijing residence of the Dalai Lama from 1951 to 1959.

Dress code: Business casual attire, jacket not required

FRIDAY at 18:30 p.m.

The IS³R 10th Anniversary Celebration and Gold Medal Dinner will be held at the Beijing Hong Kong Jockey Club Clubhouse. The magnificent Beijing Clubhouse is situated in the prestigious Wangfujing area. The architecture blends the traditional courtyards of the Ming and Qing Dynasties with contemporary concepts to create a masterpiece of modern aesthetics and imperial splendor. The four garden courtyards are themed according to the four seasons, mirroring the harmonious union of the earth, humans and the celestial.

Dress code: Dinner attire, jacket required

SATURDAY at 15:00 p.m.

As a celebration at the end of the IS³R symposium, our local hosts Jian-Ping Dai and Zhengyu Jin, invite you to experience highlights in Beijing followed by a delicious Peking duck dinner.

Tours will depart at 15:00 and return at 17:15. Route A will go to the Temple of Heaven. Route B will visit the Hongqiao Market. Route C will be a walking tour of the Oriental Plaza and Wangfujing Shopping Street.

At 18:30 please join our hosts at the Beijing Quanjude Roast Duck Restaurant for dinner. Dress code: Smart casual



Maison Boulud Beijing



Beijing Hong Kong Jockey Club Clubhouse

Please note that pre-registration to all social events was required. If your plans have changed, kindly notify the registration desk at your earliest convenience.

LIST OF PARTICIPANTS

Ronald Arenson

Alexander R. Margulis Distinguished Professor and Chairman
University of California, San Francisco
San Francisco, California/US

Peter Aspelin

Professor, Department of Radiology
Karolinska Institute
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Ezana M. Azene

Director of Research
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La Crosse, Wisconsin/US

Peter Baierl

Executive Director
European Society of Radiology (ESR)
Vienna/AT

Norman J. Beauchamp

Professor and Chairman, Department of Radiology
University of Washington
Seattle, Washington/US

Hans Billing

Medical Director
European Telemedicine Clinic
Barcelona/ES

Lorenzo Bonomo

Professor of Radiology
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Rome/IT

William G. Bradley

Professor and Chairman
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R. Nick Bryan

Professor, Department of Radiology
University of Pennsylvania
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