



INTEGRATED  
DIAGNOSTICS  
AND MASSIVE  
COMPUTING  
CONVERGENCE  
OF MEDICAL  
IMAGING,  
LABORATORY  
TESTS AND  
IT-SOLUTIONS



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

IS<sup>3</sup>R  
2011

Dubrovnik/Croatia  
August 25–27, 2011

Scientific Program

IS<sup>3</sup>R 2011  
9<sup>TH</sup> BIENNIAL  
SYMPOSIUM  
INTEGRATED  
DIAGNOSTICS  
AND MASSIVE  
COMPUTING  
CONVERGENCE  
OF MEDICAL  
IMAGING,  
LABORATORY  
TESTS AND  
IT-SOLUTIONS

[www.is3r.org](http://www.is3r.org)

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# LETTER FROM THE PRESIDENT



Dear colleagues,

I warmly welcome you to our 9<sup>th</sup> Biennial International Symposium on behalf of the Executive Board of the International Society for Strategic Studies in Radiology. Enclosed are an introduction by the Program Chairman, Dr. Gabriel P. Krestin, and the program for our meeting.

I am confident that you will find this meeting a superb opportunity to connect with other international leaders in imaging science and discuss the future of radiology. The theme of this year's meeting, "Integrated Diagnostics and Massive Computing," is a natural extension of our previous discussion of "P4 Medicine."

As we are all aware, the coordination of this meeting would not have been possible without the outstanding support of our partners and sponsors. Our sponsors' participation in these symposia is vital to promoting fresh dialogue in our field. A list of our sponsors is included on the final page of this program.

At the close of my tenure, I would like to express my gratitude for the contributions made by the IS<sup>3</sup>R Executive Board, Officers, and management staff. In particular, I thank the Chair of the Program Committee, Gabriel Krestin and the entire Committee for composing an outstanding meeting program. Further, I would like to acknowledge the Society's partnership with ECR GmbH and ACR. Specifically, I thank Monika Hierath, Szilvia Csóka, and Peter Baierl from ECR, and Pam Mechler and Harvey Neiman from ACR. Our joint strategic efforts have led IS<sup>3</sup>R to solidify its foundation for future success and growth and fulfill its mission.

Lastly, I would like to offer my congratulations to Hedvig Hricak, MD, PhD, as she assumes her role as IS<sup>3</sup>R President. I am sure the Society will benefit immensely from her leadership and the experience she has gained at Sloan-Kettering Cancer Center NY and during her recent tenure as President of the RSNA.

I look forward to welcoming you in person to our meeting in Dubrovnik.

A handwritten signature in black ink, appearing to read "C. Herold". The signature is fluid and cursive.

Christian J. Herold, MD  
President IS<sup>3</sup>R

# LETTER FROM THE PROGRAM CHAIRMAN



Dear colleagues, dear participants,

On behalf of the Program Planning Committee, I am pleased to welcome you to our 9<sup>th</sup> Biennial Symposium on August 25–27, 2011 in Dubrovnik, Croatia. I hope that both program and venue will be instrumental in continuing with the almost 20-year tradition of highly productive, inspiring, and timely exchange of ideas between key opinion leaders from our profession and captains of industry.

This year's meeting has been centered around the topic "Integrated Diagnostics and Massive Computing". I am grateful to the members of the Program Planning Committee and particularly to Jim Thrall for suggesting this theme, as the convergence of medical imaging and laboratory diagnostics with the use of present and future IT-solutions has not only been propagated by industry but is increasingly penetrating our daily practice and our organizational structures. Therefore I think it is more than appropriate to brainstorm on the consequences, opportunities, and challenges that this development brings about for the discipline of imaging. Three main sessions of our meeting will be dedicated to different aspects of this main topic and will be accompanied by outstanding keynote presentations given by some of our distinguished members and guests.

In order to intensify the discussion, some dedicated break-out sessions will tackle "hot" strategic issues in medical imaging. Two special focus sessions will be dedicated to the future role of radiologists in image-guided therapy and to the emerging challenges in biomedical publication. Ample discussion time has been allocated after each session and highly qualified and motivated moderators and panelists have been invited to attend. Two medical writers will be present to record meeting outcomes, which will be disseminated to our colleagues, policy makers, and administrators.

I would like to thank our President, Dr. Christian Herold, and our President-Elect, Dr. Hedi Hricak, for their continuous support and guidance. Most of the work of organizing this symposium was shared among the three of us, and I am particularly grateful to Hedi who made it possible to organize the meeting in such a spectacular venue. We also appreciate the generous support of our corporate members. Last but not least, I would like to thank all the invited speakers, moderators, reporters, and panelists for their invaluable contributions. It is their input that will hopefully make this meeting a success.

But more than anything, I wish you all a very fruitful interaction with old friends and new colleagues.

A handwritten signature in black ink, appearing to read "G. Krestin". The signature is fluid and cursive, with a small dot at the end.

Gabriel P. Krestin, MD, PhD  
Chair of the Program Committee

## 2011 Committees

### PROGRAM COMMITTEE

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#### Members

[William G. Bradley](#) (San Diego/US)

[Adrian K. Dixon](#) (Cambridge/UK)

[Xiaoyuan Feng](#) (Shanghai/CN)

[Guy Frija](#) (Paris/FR)

[Christian J. Herold](#) (Vienna/AT)

[Hedvig Hricak](#) (New York/US)

[Jonathan S. Lewin](#) (Baltimore/US)

[Kazuro Sugimura](#) (Kobe/JP)

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[Hedvig Hricak](#) (New York/US)

[Christian J. Herold](#) (Vienna/AT)

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## IS<sup>3</sup>R Executive Board

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### MEMBERS AT LARGE

[William G. Bradley](#) (San Diego/US)

[Sachio Kuribayashi](#) (Tokyo/JP)

[Hans Ringertz](#) (Linköping/SE)

## Mission of IS<sup>3</sup>R

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. The society aims to foresee national and global developments in radiology and allied fields, and to strategically communicate important issues to radiologists, physicians in other medical fields, industry and governments. By forming a strategic partnership with industry, in order to define important and relevant fields of cooperation for the successful future of both partners, IS<sup>3</sup>R hopes to envision schema for actively influencing research, clinical practice and teaching now and in the future, and to prepare radiologists, their partners, and their clients for future developments. The society aims to influence the flow of capital and investment into the most scientific and strategic fields, and to influence health care politics for the benefit of radiology, its patients and customers.

## Committees

### PUBLICATION & EDITORIAL COMMITTEE

#### Chair

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#### Members

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[William G. Bradley](#) (San Diego/US)

[Gary Glazer](#) (Stanford/US)

[Christian J. Herold](#) (Vienna/AT) – ex officio

[Hedvig Hricak](#) (New York/US)

[Gabriel P. Krestin](#) (Rotterdam/NL)

[Maximilian F. Reiser](#) (Munich/DE)

### MEMBERSHIP & NOMINATING COMMITTEE

#### Chairs

[Hedvig Hricak](#) (New York/US)

[Guy Frija](#) (Paris/FR)

#### Members

[Byung Ihn Choi](#) (Seoul/KR)

[Jian-Ping Dai](#) (Beijing/CN)

[Luis Donoso](#) (Barcelona/ES)

[Ricardo Garcia-Monaco](#) (Buenos Aires/AR)

[Gary Glazer](#) (Stanford/US)

[Christian J. Herold](#) (Vienna/AT) – ex officio

[James H. Thrall](#) (Boston/US)

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[Jonathan S. Lewin](#) (Baltimore/US)

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[Gustav K. von Schulthess](#) (Zurich/CH)

### COMPLIANCE COMMITTEE

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[Jonathan S. Lewin](#) (Baltimore/US)

#### Members

[Christian J. Herold](#) (Vienna/AT) – ex officio

[Hans Ringertz](#) (Linköping/SE)

[Kazuro Sugimura](#) (Kobe/JP)

# PROGRAM OVERVIEW

## Thursday, August 25\*

- 07:30 Registration  
08:15 Welcome and Opening
- 
- 08:45 **KEYNOTE LECTURE**  
What will be new in imaging the coming 5 years?
- 09:30 **PANEL DISCUSSION**  
The future of imaging
- 
- 10:30 Coffee Break
- 
- 11:00 **TOPIC I**  
What is integrated diagnostics?
- 
- 13:00 Lunch Break
- 
- 14:00 **TOPIC I PANEL DISCUSSION**
- 15:00 **BREAKOUT SESSION I**  
Conflicts of interest in public-private partnerships
- 15:00 **BREAK OUT SESSION II**  
*Room Lavandula 2*  
Radiation exposure: challenges, responsibilities and conflicts
- 
- 16:30 Coffee Break
- 
- 17:00 **BREAKOUT SESSION III**  
Need for new regulatory processes
- 17:00 **BREAKOUT SESSION IV**  
*Room Lavandula 2*  
Industrialized imaging
- 
- 20:00 **SOCIAL EVENT**  
at NAUTIKA RESTAURANT

## Friday, August 26\*

- 08:30 **KEYNOTE LECTURE**  
Diagnostics in the era of molecular medicine
- 
- 09:15 **TOPIC II**  
Massive computing for integrated diagnostics
- 
- 10:35 Coffee Break
- 
- 11:00 **TOPIC II (ctd.)**
- 12:00 **TOPIC II PANEL DISCUSSION**
- 
- 13:00 Lunch Break
- 
- 14:00 **REPORTS AND DISCUSSION OF BREAKOUT SESSIONS**
- 
- 15:00 Coffee Break
- 
- 15:30 **SPECIAL FOCUS SESSION I**  
The role of radiologists in image guided therapy
- 15:30 **SPECIAL FOCUS SESSION II**  
*Room Lavandula 2*  
Challenges in biomedical publication
- 
- 16:30 **PANEL DISCUSSION**  
SPECIAL FOCUS SESSIONS I + II
- 
- 17:00 **KEYNOTE LECTURE**  
Supporting radiology in underprivileged countries
- 
- 17:45 **GENERAL ASSEMBLY**  
(members only)
- 
- 20:00 **SOCIAL EVENT**  
at SPONZA PALACE

## Saturday, August 27\*

- 08:30 **TOPIC III**  
Integrated diagnostics: the professional challenges
- 
- 10:10 Coffee Break
- 
- 10:40 **TOPIC III PANEL DISCUSSION**
- 
- 11:40 **KEYNOTE LECTURE**  
Translational concepts and innovations in the imaging of metastatic disease
- 
- 12:25 **SUMMARY AND CONCLUSIONS**
- 
- 13:00 **FAREWELL LUNCH**
- 
- 15:00 **SOCIAL EVENT**  
BOAT TRIP on KARAKA

\*All sessions take place in room Lavandula 1, unless noted otherwise.







# SCIENTIFIC PROGRAM SCHEDULE

## Thursday, August 25

07:30 Registration

08:15 [Welcome by the Mayor of Dubrovnik](#)

08:30 [Welcome and Opening](#)  
Gabriel P. Krestin/NL

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### 08:45 KEYNOTE LECTURE

*Introduction by Christian J. Herold/AT*

[What will be new in imaging the coming 5 years?](#)

Elias A. Zerhouni/US

### 09:30 PANEL DISCUSSION

[The future of imaging](#)

*Moderators: Christian J. Herold/AT, Herbert Y. Kressel/US*

*Panelists: Thomas Balzer/DE, Claire Corot/FR, Michael Harsh/US, Rich Mather/US, Fulvio Renoldi Bracco/IT, Bernd Montag/DE, Diego Olego/US, Roderic Pettigrew/US, Elias A. Zerhouni/US*

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10:30 Coffee Break

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### 11:00 TOPIC I

[What is integrated diagnostics?](#)

*Moderator: Guy Frija/FR*

11:00 [The clinical needs and challenges](#)

Bernd K. Hamm/DE

11:20 [The healthcare enterprise perspective](#)

Jörg F. Debatin/DE

11:40 [The need for high performance \(cloud\) computing](#)

Ronald L. Arenson/US

### 12:00 TOPIC I (ctd.)

*Moderator: Sachio Kuribayashi/JJP*

12:00 [New technologies for integrated diagnostics](#)

Moritz Kircher/US

12:20 [The business of integrated diagnostics](#)

Hermann Requardt/DE

12:40 [Challenges and risks of integrated diagnostics](#)

Gene Saragnese/US

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13:00 Lunch Break

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### 14:00 TOPIC I

[PANEL DISCUSSION](#)

*Moderators: Guy Frija/FR,*

*Sachio Kuribayashi/JJP*

*Panelists: Norman J. Beauchamp/US,*

*Byung Ihn Choi /KR,*

*Valtero Canepa/IT, Osman Ratib/CH*

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### CONTROVERSIES IN THE PRACTICE OF IMAGING

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### 15:00 BREAKOUT SESSION I

[Conflicts of interest in public-private partnerships](#)

*Moderator: Steven E. Seltzer/US*

*Reporter: Peter Aspelin/SE*

[Sponsorship \(CME, donations\)](#)

Adrian K. Dixon/UK

[Research collaborations](#)

William G. Bradley/US

[Industry initiated trials](#)

Willi A. Kalender/DE

### DISCUSSION

### 15:00 BREAKOUT SESSION II

[Radiation exposure: challenges, responsibilities and conflicts.](#)

*Moderator: Mathias Prokop/NL*

*Reporter: Jian-Ping Dai/CN*

[Conflicting theories in radiation risk estimation](#)

Cynthia McCollough/US

[Professional responsibilities and challenges](#)

Stephen Golding/UK

[Technical & IT-solutions for dose reduction](#)

Norbert J. Pelc/US

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### DISCUSSION

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16:30 Coffee Break

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### 17:00 BREAKOUT SESSION III

[Need for new regulatory processes](#)

*Moderator: Gustav K.v. Schulthess/CH*

*Reporter: Pek-Lan Khong/CN*

[Acceptance of imaging biomarkers by regulatory bodies](#)

Markus Schwaiger/DE

[Registration and certification of new medical devices: policies in the US](#)

Larry G. Kessler/US

[New tracers and contrast agents](#)

Alberto Spinazzi/US

### DISCUSSION

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### 17:00 BREAKOUT SESSION IV

[Industrialized imaging](#)

*Moderator: R. Nick Bryan/US*

*Reporter: Valentin E. Sinitzyn/RU*

[Standardization vs. commoditization](#)

James H. Thrall/US

[Performance measurement](#)

Jeffrey C. Weinreb/US

[Transparency: consumer oriented healthcare](#)

Alexander R. Margulis/US

### DISCUSSION

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20:00 SOCIAL EVENT

at NAUTIKA RESTAURANT

# SCIENTIFIC PROGRAM SCHEDULE

## Friday, August 26

### 08:30 KEYNOTE LECTURE

*Introduction by*  
*Alexander R. Margulis/US*

Diagnostics in the era of molecular  
medicine  
Ralph Weissleder/US

### 09:15 TOPIC II

Massive computing for integrated  
diagnostics

*Moderator: Maximilian F. Reiser/DE*

09:15 Clinical trials in imaging  
vs. imaging in clinical trials  
Bruce J. Hillman/US

09:35 Comparative effectiveness  
research in radiology  
Barbara McNeil/US

09:55 Dynamic evidence based  
diagnostics  
Myriam Hunink/NL

10:15 Role of bioinformatics in  
changing the radiology  
business model  
Dieter Enzmann/US

10:35 Coffee Break

### 11:00 TOPIC II (ctd.)

*Moderator: Kazuro Sugimura/JJP*

11:00 IT giants and imaging  
Oliver Chen/CN

11:20 e-infrastructure for future  
diagnostic needs  
John Dineen/UK

11:40 Sense and non-sense of  
population imaging  
Meike Vernooij/NL

### 12:00 TOPIC II

#### PANEL DISCUSSION

*Moderators: Maximilian F. Reiser/DE,*  
*Kazuro Sugimura/JJP*

Panelists: Boris Brkljacic/HR,  
Jian-Ping Dai/CN, Luis Donoso/ES,  
Bernd Montag/DE

13:00 Lunch Break

### 14:00 REPORTS AND DISCUSSION OF BREAKOUT SESSIONS

*Moderator: Philippe A. Grenier/FR*

#### Conflicts of interest

Peter Aspelin/SE

#### Patient safety

Jian-Ping Dai/CN

#### New regulatory processes

Pek-Lan Khong/CN

#### Industrialized imaging

Valentin E. Sinitzyn/RU

15:00 Coffee Break

### 15:30 SPECIAL FOCUS SESSION I

The role of radiologists in image  
guided therapy

*Moderators: Hedvig Hricak/US,*

*Ricardo Garcia-Monaco/AR*

Imaging in the hybrid operating  
theatre

Jonathan S. Lewin/US

Role of radiology in image-guided  
radiotherapy

David Jaffray/CA

Theranostics for radiologists or for  
other specialists?

Martin Pomper/US

### 15:30 SPECIAL FOCUS SESSION II

Challenges in biomedical publication

*Moderators: Gabriel P. Krestin/NL,*

*Bernd K. Hamm/DE*

Citations, indices, H factor and other  
parameters assessing publications  
and authors: are they really  
measuring quality?

Anthony van Raan/NL

Pressures that authors, editors and  
departmental chairman are under  
concerning publication

Adrian K. Dixon/UK

Where is the honour in honorary  
authorship?

Herbert Y. Kressel/US

The opinion of the masses:

standard versus open peer review

Bruce J. Hillman/US

### 16:30 PANEL DISCUSSION

(Special Focus Session I)

*Moderators: Hedvig Hricak/US,*

*Ricardo Garcia-Monaco/AR*

Panelists: Claus Claussen/DE,

Gilbert Jost/US, Bernd Montag/DE

### 16:30 PANEL DISCUSSION

(Special Focus Session II)

*Moderators: Gabriel P. Krestin/NL,*

*Bernd K. Hamm/DE*

Panelists: Stanley Baum/US,

Philippe A. Grenier/FR,

Huibert A. P. Pols/NL

### 17:00 KEYNOTE LECTURE

*Introduction by*

*Lenny Tan/SG*

Supporting radiology in  
underprivileged countries

Hans Ringertz/SE

### 17:45 GENERAL ASSEMBLY

(members only)

### 20:00 SOCIAL EVENT

at SPONZA PALACE

# SCIENTIFIC PROGRAM SCHEDULE

## Saturday, August 27

- 08:30 **TOPIC III**  
**Integrated diagnostics:  
the professional challenges**  
*Moderators: Valerie P. Jackson/US,  
András Palkó/HU*
- 08:30 **The position of radiology  
in an integrated diagnostic  
center**  
James H. Thrall/US
- 08:50 **How to train future  
“biomarker specialists”**  
N. Reed Dunnick/US
- 09:10 **Subspecialization:  
“The Matrix”**  
Christian J. Herold/AT
- 09:30 **Strategies for closing the gap  
between nuclear medicine  
and radiology**  
Hans Maier/DE
- 09:50 **Interventional radiology in  
the era of integrated  
diagnostics and personalized  
medicine**  
Andreas Adam/UK
- 
- 10:10 Coffee Break
- 
- 10:40 **TOPIC III**  
**PANEL DISCUSSION**  
*Moderators: Valerie P. Jackson/US,  
András Palkó/HU*  
Panelists: Stanley Baum/US,  
Moshe Graif/IL,  
Alberto Spinazzi/US,  
Ranka Štern-Padovan/HR,  
Karl-Juergen Wolf/DE
- 
- 11:40 **KEYNOTE LECTURE**  
*Introduction by  
Gabriel P. Krestin/NL*
- Translational concepts and  
innovations in the imaging of  
metastatic disease**  
Hedvig Hricak/US
- 
- 12:25 **SUMMARY AND CONCLUSIONS**  
Hans Ringertz/SE
- 
- 13:00 **FAREWELL LUNCH**
- 
- 15:00 **SOCIAL EVENT**  
**BOAT TRIP on KARAKA**

# VENUE, PARTNER HOTELS AND PRACTICAL INFORMATION

## Venue

### Dubrovnik Hotel Excelsior

Frana Supila 12  
20000 Dubrovnik, Croatia  
Phone: +385 20 353 390  
Fax: +385 20 353 555  
E-mail: [info@hotel-excelsior.hr](mailto:info@hotel-excelsior.hr)  
Web: [www.hotel-excelsior.hr](http://www.hotel-excelsior.hr)

Dubrovnik Hotel Excelsior, known as one of the finest hotels on the Mediterranean according to the eminent Sunday Times, is a luxury five-star hotel and a part of the Adriatic Luxury Hotels group.

Situated just a few steps from the UNESCO Dubrovnik old town, overlooking the Adriatic Sea, the Hotel Excelsior's stunning location, its nonchalant elegance and Mediterranean charm make it one of the most beautiful hotels in the world.

## Partner Hotels of the IS<sup>3</sup>R Symposium

### Hotel Grand Villa Argentina

Hotel Grand Villa Argentina is situated next to the venue hotel. An exclusive place just minutes from the gates of Dubrovnik's old town.  
Frana Supila 14  
20000 Dubrovnik, Croatia  
Phone: +385 20 440 555  
Fax: +385 20 440 533

### Hotel Bellevue

Hotel Bellevue is a partner hotel of the venue hotel Excelsior, situated 2km from the venue hotel. Hotel Bellevue has a private beach and is well suited for leisure activities. A shuttle bus is provided free of charge (twice a day - morning/evening) to and from the venue.  
Pera Cingrije 7  
20000 Dubrovnik, Croatia  
Phone: +385 20 330 000  
Fax: +385 20 330 100

## Practical Information

### Certificate of Attendance

Certificates certifying attendance will be provided upon request after the symposium.

### Credit Cards/Currency Exchange

There is an ATM (Hypo-Alpe Adria Bank) at the entrance of the hotel. The closest bank is situated in the old town (5-10 min. walk). Money exchange is possible at the hotel with 1.5% commission fee. Major credit cards (American, Visa, Master Card, Diners) are accepted. Please note that the hotel is not able to cash traveller's cheques. The Croatian currency is Kuna.

### Insurance

Neither the IS<sup>3</sup>R 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 Dubrovnik. 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 Croatia.

### Meals

Buffet breakfast is included in the room rate. Business lunch and coffee breaks are offered free of charge to delegates. Thank you for your understanding that IS<sup>3</sup>R 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 & Hotel/Travel Information

Staff at the registration desk in front of the main conference room "Lavandula" is available on Aug. 24 from 17:00–19:00 as well as during symposium hours from Thursday to Saturday. They will assist you with reservations, tourist information or any issues regarding your accommodation or travel arrangements.

### Smoking Policy

The Hotel Excelsior is a non-smoking hotel/conference venue.

### Speakers' Center

Speakers are kindly requested to upload their presentation at the Speakers' Center (behind the registration area) at least 90 min. before the start of their session.



# SOCIAL EVENTS

## Wednesday, August 24

### Welcome Cocktail at the Palm Terrace of the Hotel Excelsior (19:00–20:00)

Drinks and finger food snacks will be served.  
Dress code: Smart casual

## Thursday, August 25

### Dinner at Nautika Restaurant (20:00)

Nautika Restaurant is situated alongside the entrance to Dubrovnik's old town with one-of-a-kind views of the Adriatic and the fortresses of Lovrijenac and Bokar. Nautika Restaurant offers elevated Mediterranean cuisine. A nice walk through the old town will take us to the restaurant.

Dress code: Smart casual

## Friday, August 26

### IS<sup>3</sup>R private dinner at Sponza Palace (20:00)

The beautiful Sponza Palace, situated in Dubrovnik old town and built in the late Gothic and Renaissance styles, is one of Dubrovnik's highlights and will play host to an unforgettable evening. A short walk through the scenic old town will take us to the palace.

Dress code: Formal dress

## Saturday, August 27

### Boat trip on Karaka (15:00–19:30)

As a celebration at the end of the IS<sup>3</sup>R 2011 meeting, the local organizers Boris Brkljacic, Ranka Štern-Padovan and their "ambassador" Hedi Hricak have the pleasure of inviting you to a trip on the boat Karaka, a magnificent replica of a Dubrovnik Republic traditional carrack. Refreshments will be served.

Dress code: Casual

Please note that pre-registration to all social events was required. If you have signed up for an event and cannot attend, please kindly notify the registration desk at your earliest convenience.

For further details regarding meeting points etc., please refer to the IS<sup>3</sup>R Dubrovnik Welcome Letter you will find in your hotel room.

# LIST OF PARTICIPANTS

## Andreas Adam

*Professor and Chairman of the Departments of Radiology, Nuclear Medicine and Medical Physics*  
Guy's and St. Thomas' Hospital  
London/UK

## Erkan Akyuz

*Executive Vice President, Product Strategy & Development*  
Vital Images  
Minnetonka, Minnesota/US

## Ronald L. Arenson

*Professor and Chairman, Department of Radiology and Biomedical Imaging*  
University of California, San Francisco  
San Francisco, California/US

## Peter Aspelin

*Professor of Diagnostic Radiology at the Department of Clinical Science*  
Karolinska University Hospital Huddinge  
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