



INTERNATIONAL  
SOCIETY  
FOR STRATEGIC  
STUDIES IN  
RADIOLOGY

# The Future of Medical Imaging

## Trends and Perspectives



Erasmus MC,  
University Medical Center  
Rotterdam, The Netherlands  
November 10-11, 2018





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# The Future of Medical Imaging

## Trends and Perspectives

**International Symposium in collaboration with IS3R**

**On the occasion of the inauguration of the new Department of Radiology at Erasmus MC**

- *What will the radiological profession look like in the future?*
- *Will techniques that are 'hot and happening' today survive going forward? Will these techniques enter clinical practice?*
- *What will be the role of industry and of our clinical partners?*



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# Program

## Saturday Morning

- 8.30-9.00 **Opening** (by the Dean of the Medical School of the Erasmus University)
- 9.00-9.45 **Key-Note Lecture 1: *Opportunities and Challenges in Healthcare in NL*** (E. Kuipers,)
- 9.45-10.30 **Session 1: *Trends in Healthcare affecting medical imaging.*** (Mod: Brkljacic, Jin)
- Value-based Imaging (Enzman)
  - Imaging in Population Health Management (Brink)
  - Higher Quality = Higher Value? How can Technology Help? (Cascella, Philips)

***Coffee Break and Visit of the New Radiology Department (10.30-11.00)***

- 11.00-12.00 **Panel Discussion 1: *The True Impact of Imaging*** (Mod. Fuchsjäger, Parizel)  
(McNeil, Honda, Grenier, Kuhl, Palko)

- 12.00-13.00 **Master Class Series 1 (in small groups):**
- Medical Imaging in Developing Countries (Jankharia)
  - The Future of Scientific Dissemination (Reiser/Kressel)
  - Good Science – Bad Science (Prokop)
  - How to Boost Innovation (Murphy/GE)
  - Leadership in Times of Change (Schwaiger)

***Lunch (13.00-14.00)***



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## Saturday Afternoon

14.00-15.00

### **Session 2: *Man-Machine Interaction in the Era of AI*** (Mod: Catalano, Garcia-Monaco)

- Data Mining & Machine Learning for Integrated CDS (Boland)
- Artificial Intelligence for an Efficient Workflow (Kaindl/Siemens)
- Biomedical and genetic data analytics for precision medicine (Niessen)
- Deep learning for medical image reconstruction, segmentation and super-resolution (D.Rueckert/Imperial College)

### ***Coffee Break and Visit of the New Radiology Department (15.00-15.30)***

15.30-16.30

### **Panel Discussion: *Medical Imaging without Images?*** (Mod: Bryan, Donoso) (Dreyer, Sosna, Ratib, Kronander, Jay, Dewey)

16.30-17.30

### **Master Class Series 2 (in small groups):**

- How to Manage Imaging Research (Krestin)
- KPIs in Radiology (Thrall)
- The Value Proposition in Medical Imaging (Rubin)
- Entrepreneurship in Medical Imaging (Montag/Siemens)
- Do's and Don'ts in Clinical Research (Schnall)

### ***Social Event***



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# Program

## Sunday Morning

8.30-9.30

### **Session 3: *Are We Entering the Dark Age of Innovation?*** (Mod: Cerri, von Schulthess)

- Disruptive Innovations in Image Acquisition: Is this the End? (Le Bihan)
- Function or Structure: Where should we invest? (Grist)
- Molecular Imaging: Hope or Hype? (Lewis)
- Is There Still Innovation in Contrast Media? (Clement)

9.30-10.30

### **Panel Discussion: *The Top 5 Hot Trends in Medical Imaging*** (Mod: Pettigrew, Ringertz) (Karti, Märzendorfer, Mather, Pien, Attenberger, Kircher, Saindane)

### ***Coffee Break and Visit of the New Radiology Department (10.30-11.00)***

11.00-12.00

### **Master Class Series 3 (in small groups):**

- Non-Interpretative Skills in Radiology (Gilbert)
- The Future of Radiology Education/Training (Meltzer)
- Frontiers in Cancer Imaging (Hricak)
- Integration or Super-specialization (Herold)
- Public-Private Partnerships (Schoenberg)

12.00-12.45

### **Key-Note Lecture 2: *The Role of the Radiologist in 21<sup>st</sup> Century Healthcare*** (Gambhir)

12.45-13.00

### **Closing**