

European Science Foundation
Standing Committee for the European Medical Research Councils (EMRC)

ESF/EMRC STRATEGIC WORKSHOP

*for a Science Policy Briefing
on*

Medical Imaging for Improved Patient Care



**Trondheim (NO)
2 - 3 November 2006**

**Convened by:
European Medical Research Councils (EMRC)**



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- Explore new directions in global science;
- Advance cutting-edge research in Europe;
- Plan and support European science-driven research cooperation in a global context.

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Main Objectives of the Workshop:

ESF/EMRC has decided to convene a strategic workshop for a Science Policy Briefing on Medical Imaging for Improved Patient Care. The workshop will focus on the role of medical imaging in the future healthcare system and develop recommendations for a European policy with the aim to support research and development within medical imaging.

Professors Arturo Brunetti and Olav Haraldseth have been invited to chair this science policy activity. A group of 20 experts in the field are being invited to participate in the workshop in Trondheim on 2-3 November 2006.

Several scientific topics will be addressed in the workshop, including:

- What are the major roles of medical imaging in the future healthcare system?
- How to achieve the dual goal of improved patient outcome and cost-efficiency within the healthcare system?
- The translation of new technology into new clinical practice.
- The clinical potential of innovative new technologies in medical imaging.
- What are the major challenges for medical imaging R&D in Europe?

For each sub-topic scientific experts are being invited to describe the present status, future trends and major challenges as a basis for plenary discussions.

We consider the plenary discussions to be of major importance as a preparatory step towards a science policy briefing.

After completion of the workshop Arturo Brunetti and Olav Haraldseth will write a first draft of the science policy briefing and circulate it among the workshop participants for comments and suggestions. A revised draft will then be submitted to the CEO of ESF for approval.

PRELIMINARY PROGRAMME

Thursday 2 November 2006

08:30 – 9:00: registration

TIME	SPEAKER	AFFILIATION	TITLE
09:00 – 09:10	Arturo Brunetti and Olav Haraldseth	CNR and NTNU	Welcome
09:10 – 09:25	Liselotte Højgaard	EMRC	Introduction of ESF; overview of EMRC's activities; what is an ESF Science Policy Briefing?

Session I: Opening

TIME	SPEAKER	AFFILIATION	TITLE
09:25 – 09:35	Olav Haraldseth	NTNU	Challenge 1: The main objectives of medical imaging R&D should be improved patient outcome and cost-efficiency within the healthcare system
09:35 – 09:45	Arturo Brunetti	CNR	Challenge 2: The difficult step: translation of new technology into new clinical practice
09:45 – 10:00			Plenary discussion

10:00 – 10:30 Coffee break

Session II: What are the Major Roles of Medical Imaging in the Future Healthcare System? *(Chair: Alberto Cuocolo)*

TIME	SPEAKER	AFFILIATION	TITLE
10:30 – 10:45	Paolo G. Camici	London Imperial College	Primary diagnosis and early detection of disease
10:45 – 11:00	Marcus Schwaiger	TU Munich	Monitoring of treatment effect and patient follow-up
11:00 – 11:15	Hans Olav Myhre	NTNU	Image guided surgery and intervention
11:15 – 11:30	George Laking	Christie Hospital NHS Trust	The Economics of Diagnosis
11:30 – 12:00			Plenary discussion

12:00 – 13:30 lunch

Session III: The Technology-driven Approach: which roles do the main imaging modalities have in the future healthcare system? *(Chair: Markus Schwaiger)*

TIME	SPEAKER	AFFILIATION	TITLE
13:30 – 13:45	Henrik Larsson	Glostrup University Hospital	MR
13:45 – 14:00	Liselotte Højgaard	Copenhagen University	PET
14:00 – 14:15	George Sutherland	St. George's Hospital Medical School	Ultrasound
14:15 – 14:30	Gabriel P. Krestin	Erasmus MC	CT
14:30 – 15:00			Plenary discussion

15:00 – 15:30: Coffee break

Session IV: The Problem-driven Approach: what can medical imaging offer for better patient care in important disease entities? *(Chair: Henrik Larsson)*

TIME	SPEAKER	AFFILIATION	TITLE
15:30 – 15:45	Jordi Rusalleda Nadal	European Society of Neuroradiology	Brain
15:45 – 16:00	Alberto Cuocolo	Napoli University & EANM	Non-invasive cardiac imaging for the assessment of heart disease
16:00 – 16:15	Christiane Kuhl	Radiologische Klinik der Universität Bonn	Cancer
16:15 – 16:30	Paul Emery	Academic Unit of Rheumatology and Musculoskeletal Diseases	Rheumatic diseases
16:30 – 17:00			Plenary discussion

19:00 : Dinner

Friday 3 November 2006

Session V: Innovative New Technology (Chair: *Christiane Kuhl*)

TIME	SPEAKER	AFFILIATION	TITLE
08:30 – 08:45	Chrit Moonen	ERT 5543 CNRS	Molecular and functional imaging MR
08:45 – 09:00	Juhani Knuuti	Turku PET Centre	Molecular and functional imaging PET
09:00 – 09:15	Silvio Aime	Turin University	Smart contrast agents and molecular probes
09:15 – 10:00			Plenary discussion

10:00 – 10:30 Coffee break

Session VI: Challenges for Medical Imaging R&D (Chair: *Liselotte Højgaard*)

TIME	SPEAKER	AFFILIATION	TITLE
10:30 – 10:45	Borut Marincek	Zurich University Hospital; ECR-ESR	Healthcare and industry: different goals or common interests?
10:45 – 11:00	Sturla Eik-Nes	Trondheim University Hospital	Translation of new technology into new clinical practice
11:00 – 11:15	Gabor Rudas	Semmelweis University	The demands on education and training with the rapid growth in technological possibilities
11:15 – 11:30	Gabriel P. Krestin	Erasmus MC	Need for research funding, collaboration and organisation in Europe
11:30 – 12:00			Plenary discussion

12:00 – 13:00 Lunch

Session VII: Towards a Science Policy Briefing on Medical Imaging (Chairs: *Arturo Brunetti, Olav Haraldseth*)

TIME	SPEAKER	AFFILIATION	TITLE
13:00 – 13:20	Chairs		Summary of Sessions I to VI
13:20 – 14:00			Plenary discussion (chaired by Arturo Brunetti and Olav Haraldseth); towards draft recommendations; the way forward

List of Participants

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