

**IAEA**

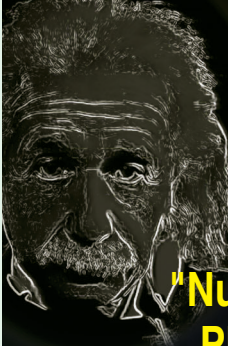
*"A key feature of modern science is its synergy - the way in which advances in fields such as nanotechnology, bioengineering and information technology play off each other for ever greater achievements. Nuclear and radiation based techniques are contributors to that synergy..."*

M. ElBaradei, Director General, IAEA

For further information and on-line registration please see the IAEA website:  
<http://www-pub.iaea.org/MTCD/Meetings/Meetings.asp>

International Atomic Energy Agency:

P.O. Box 100  
Wagramer Strasse 5  
A-1400 Vienna, Austria  
Telephone: +43 1 2600-0  
Telefax: +43 1 26007



# "Nuclear Science: Physics Helping the World"

## Scientific Forum

during the 49th Regular Session of the  
IAEA General Conference  
Conference Room C, Austria Center, Vienna  
27–28 September 2005



Forum Chair: B. Richter

Session 1: **Meeting Energy Needs**  
Tuesday, 27 September 2005, 10:00 a.m.

Session 2: **Developing Advanced Materials and Technologies**  
Tuesday, 27 September 2005, 3:00 p.m.

Session 3: **Advancing Radiation Medicine**  
Wednesday, 28 September 2005, 10:00 a.m.

Session 4: **Supporting Nuclear Safety**  
Wednesday, 28 September 2005, 3:00 p.m.



## Session 1:

### Meeting Energy Needs

Tuesday, 27 September 2005, 10:00 a.m.

Moderator: B. Richter

#### Keynote Speakers:

- B. Richter; Nuclear Energy: Promise and Issues
- E.P. Velikhov; Fusion: Key Issues

Panellists: above mentioned participants,  
Katepelli R. Sreenivasan, J. Hunt, Jiangang Li, R. Galvao



Olkiluoto-3 site,  
Finland



## Session 2:

### Developing Advanced Materials and Technologies

Tuesday, 27 September 2005, 3:00 p.m.

Moderator: I. Othman

#### Keynote Speakers:

- S. Bannerjee; Better Materials for Nuclear Energy
- S. Machi; Industrial Uses of Radiation
- R. Eichler; Nuclear Applications: Future Prospects
- R. Schenkel; Nuclear Measurements

Panellists: above mentioned participants



## Session 3:

### Advancing Radiation Medicine

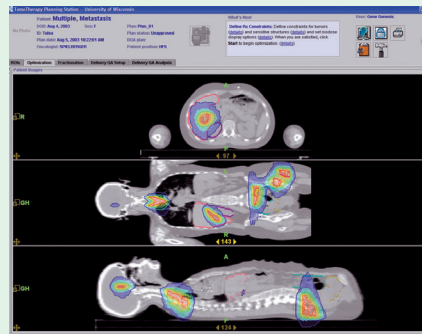
Wednesday, 28 September 2005, 10:00 a.m.

Moderator: P. Allisy-Roberts

#### Keynote Speakers:

- W. Schlegel; Imaging for Cancer Therapy
- T.R. Mackie; Progress and Challenges in Cancer Therapy
- M-E. Brandan; Next Generation of Medical Physicists
- F. Diaz-Balart; Interface of Nuclear and Biotechnologies

Panellists: above mentioned participants,  
A. Krisanachinda, D. Van Der Merwe, S.B. Elegba



## Session 4:

### Supporting Nuclear Safety

Wednesday, 28 September 2005, 3:00 p.m.

Moderator: R.A. Meserve

#### Keynote Speakers:

- J. Saulnier; Risk in the Public's Eyes
  - J. Ellis; Safety from Operator's Perspective
  - C. Kang; The Future of Technical Knowledge Management
- Panellists: above mentioned participants,  
R. Taylor, D. Nicholls, O. Tuntland, R. Navarro

