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- B. D. Wirth, University of California, Berkeley, USA
- Y. Wu, Institute of Plasma Physics, Chinese Academy of Sciences, People's Republic of China
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Thirteenth International Conference on

Fusion Reactor Materials

December 10-14, 2007

Nice, France



Hosted by
Commissariat à l'Énergie Atomique, France

<http://www-fusion-magnetique.cea.fr/icfrm13/>

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December 10-14, 2007

*Acropolis congress center
Nice, France*

First Announcement



The 13th
International Conference on Fusion
Reactor Materials
Acropolis Conference Center, Nice,
France
from 10 to 14 December, 2007

SCOPE

ICFRM is the major international forum for exchanging and archiving a growing knowledge based on the development of materials for both near and long-term fusion energy systems. The critical role of materials science and engineering in overcoming the technological challenges to making fusion energy a practical reality will be an overarching theme of the invited and contributed oral talks as well as the poster session presentations. All subjects on materials for fusion power systems are appropriate for this conference.

LIST OF TOPICS

1. Multiscale modeling for designing and predicting the performance of fusion materials and structures
2. Radiation effects
 - 2.1 Microstructural evolution
 - 2.2 Mechanical and physical property degradation (including fracture)
 - 2.3 He and H effects
3. All aspects of developing low activation and other fusion materials including fabrication and joining
 - 3.1 Ferritic/martensitic and ODS steels
 - 3.2 Refractory alloys (vanadium, tungsten, etc.)
 - 3.3 SiC/SiC and ceramic composites
 - 3.4 FCC metals and alloys (austenitic stainless steels, Cu alloys, etc.)
 - 3.5 Structural materials for high performance divertors
4. Chemical compatibility and coatings
5. Materials for plasma-facing components
 - 5.1 Armor materials
 - 5.2 Heat sink/structural materials, bonding technologies, testing
6. Materials issues in chamber technologies
 - 6.1 Tritium processing and control

- 6.2 Safety and waste management
- 6.3 Nuclear system design
- 6.4 Repair and maintenance
7. Materials-design interface
 - 7.1 Materials selection and requirements
 - 7.2 Structural integrity and lifetime assessment
 - 7.3 Advanced multiphysics computational methods for systems design
 - 7.4 Impact of safety criteria and regulatory requirements for design and operation
8. Materials challenges in ITER/ITER-TBM
9. Cross cutting materials issues for fusion and fission nuclear power systems
10. Irradiation facilities (fission, spallation, IFMIF, charged particles) and innovative experimental methods (He effects, small specimen tests/data application, integral -scaled component tests)
11. Functional materials
 - 11.1 Ceramic insulators
 - 11.2 Diagnostic materials
 - 11.3 Magnets
 - 11.4 Blanket materials
12. Materials for inertial fusion energy

PUBLICATIONS

All papers will be peer reviewed to a high standard. Accepted papers will be published in special volumes of the Journal of Nuclear Materials.

LANGUAGE

The working language of the Conference is English.

CALL FOR ABSTRACTS

Abstracts of no more than 250 words must be submitted electronically by no later than March 15, 2007.

On-line information and abstract submittal website:
<http://www-fusion-magnetique.cea.fr/icfrm13/index.html>

Acceptance of an abstract for presentation will be based on a rigorous review. Abstracts that fall outside the scope of the Conference, or describe previously reported results, or do not demonstrate a high standard will be rejected. Submissions by graduate students describing their work will be encouraged. The accepted abstracts will be distributed at the conference.

CONFERENCE VENUE

All conference activities will be held at the Acropolis Conference Center in Nice, France. Several hotels are situated close to the conference center and the city has air, road and train connections. Tourist organizations will help with room reservation.

SOCIAL ACTIVITIES

Social Activities will include a welcoming reception and a banquet. A technical visit to CEA/Cadarache is also planned.

KEY DATES

- First announcement: June 2006
- Second announcement: November 15, 2006
- Abstracts due: March 15, 2007
- Notification of acceptance: April 30, 2007
- Third announcement: August 5, 2007
- Final manuscript due: November 5, 2007

SPECIAL NOTE TO INTERNATIONAL TRAVELLERS

International visitors requiring French or Schengen visa should apply in time and ask the ICFRM secretariat for visa support letter if needed.

ADDITIONAL INFORMATION

Additional information regarding the conference, registration, reservation, etc. will be posted on the ICFRM website.