

COMMITTEES

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- S. J. Zinkle, Oak Ridge National Laboratory, USA

Technical Programme Committee

Chair: Harald Bolt, Max-Planck-Institut für Plasmaphysik, Germany

Publication Committee

Chair: Ian Cook, UKAEA Fusion, Culham Science Centre, UK

Local Organizing Committee

Chair: A. Grosman (Euratom-CEA): icfrm13@cea.fr

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- C. Bonnet (CEA/DEN)
- S. Bourmaud (Euratom-CEA)
- Th. Hutter (Euratom-CEA)
- Ph. Magaud (Euratom-CEA)
- Th. Salmon (Euratom-CEA)

KEY DATES

Final announcement

August 5, 2007

Begin Registration

August 5, 2007

Deadline for early registration fees

October 9, 2007

Hotel Registration

See conference website

Final manuscript due*

November 5, 2007

* Complete paper preparation and submission instructions will be posted on the conference website.

Time	Sunday Dec 9, 2007	Monday Dec 10, 2007	Tuesday Dec 11, 2007	Wednesday Dec 12, 2007	Thursday Dec 13, 2007	Friday Dec 14, 2007
8:00 AM		Registration	Registration	Registration	Registration	Registration
9:00 AM		01-Opening Ceremony ICFRM/IBF 01-PO: Perspectives of Fusion energy 01-PO: Nuclear energy materials (E. Bieg)	05-National programs and Cross cutting materials issues: fusion, fission and non-nuclear cutting edge applications	09- Towards DEMO and fusion power reactor	11-Advances in multiscale modelling and radiation damage studies	10A - Refractory alloys and structural mat. for high perform. divertors
10:00 AM		coffee break	coffee break	coffee break	coffee break	coffee break
11:00 AM		02A - Ferritic Steels	06A - Material design interface and cross cutting materials issues	10B - Functional materials and Blanket materials	12A - Multiscale modelling and radiation damage simulations	10B - Chemical compatibility, coatings, ceramic insulators, IFE
12:00 PM		Lunch	Lunch	Lunch	Lunch	End of Conference
1:00 PM						
2:00 PM						
3:00 PM		03A - Radiation effects (microstructure and mechanical properties)	07A - Irradiation facilities (fission, OFB - ODS steels IFMIF spallation)	VISIT of CEACadarache center (Tore Supra and ITER) Departures at about 18h for bus Forum at about 18h. Maximum of 250 visitors can be accepted	13A - Ceramics composites	
4:00 PM		04-Poster session 04-PO.1 Chemical compatibility (Topic 3.1) 04-PO.2 Chemical compatibility, coating, safety, waste (Topics 4&5) 04-PO.3 High heat flux testing (Topic 5)	06-Poster session 06-PO.1 ITER TBM design issues (Topics 2&3) 06-PO.2 Material issues in chamber 06-PO.3 Radiation effects (Topics 2.1 & 2.2)	14-Poster session 14-PO.1 Multiscale modelling (Topics 1 & 2.3) 14-PO.2 Ceramic modelling (Topic 3.3) 14-PO.3 FCC and refractory materials: deformation and fracture mechanisms (Topics 3.4&3.6,3.9)		
5:00 PM		Registration				
6:00 PM						
7:00 PM		Reception City of Nice				
8:00 PM						
9:00 PM					Banquet	

All day

All day

Monday-Tuesday

IEA Satellite Workshops

Industry/Technology Room

ITER Business Forum (IBF)



13th International Conference on Fusion Reactor Material

December 10-14, 2007

Nice, France



Hosted by
Commissariat à l'Energie Atomique, France

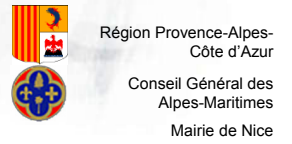
<http://www-fusion-magnetique.cea.fr/icfrm13/>

General Chair:
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Organizing Committee:
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Secretary:
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December 10-14, 2007

Acropolis congress center
Nice, France



**Final
Announcement**

ICFRM PROGRAMME (DRAFT)

USEFUL LINKS:

ICFRM website:

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

ICFRM registration & accommodation:

<http://www.matheztravel.com/icfrm13/>

IBF (Iter Business Forum) website:

<http://www.ibf2007.org>

Acropolis Conference Center:

<http://www.nice-acropolis.com/>

Nice Airport:

<http://www.nice.aeroport.fr>

Map of Nice:

<http://www.plan-nice.org/>

City of Nice:

<http://www.nice.fr>

The 13th international Conference on Fusion Reactor Materials

Acropolis Conference Center, Nice, France, 10 to 14 December, 2007

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

SCOPE

ICFRM is the major international forum for exchanging and archiving the growing knowledge relating to 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 conference.

LIST OF TOPICS

- Multiscale modeling for designing and predicting the performance of fusion materials and structures
- Radiation effects
 - Microstructural evolution
 - Mechanical and physical property degradation (including fracture)
 - He and H effects
- All aspects of developing low activation and other fusion materials including fabrication and joining
 - Ferritic/martensitic and ODS steels
 - Refractory alloys (vanadium, tungsten, etc.)
 - SiC/SiC and other ceramic composites
 - FCC metals and alloys (austenitic stainless steels, Cu alloys, etc.)
 - Structural materials for high performance divertors
- Chemical compatibility and coatings
- Materials for plasma-facing components
 - Armor materials
 - Heat sink/structural materials, bonding technologies, testing
- Materials issues in chamber technologies
 - Tritium processing and control
 - Safety and waste management
 - Nuclear system design
 - Repair and maintenance
- Materials-design interface
 - Materials selection and requirements
 - Structural integrity and lifetime assessment
 - Advanced multiphysics computational methods for systems design
 - Impact of safety criteria and regulatory requirements for design and operation
- Materials challenges in ITER/ITER-TBM
- Cross-cutting materials issues for fusion and fission nuclear power systems
- Irradiation facilities (fission, spallation, IFMIF, charged particles) and innovative experimental methods

- Functional materials
 - Ceramic insulators
 - Diagnostic materials
 - Magnets
 - Blanket materials
- Materials for inertial fusion energy

SCIENTIFIC PROGRAMME

The tentative programme consists of 4 plenary, 18 parallel oral and 9 poster sessions, corresponding to over 550 high quality abstracts retained after peer review by the programme committee.

The opening session is shared with the Iter Business Forum 2007 (IBF, <http://www.ibf2007.org/>) and is addressed by distinguished guests including the ITER Director and the CEA High Commissioner.

A technology show room is slated in parallel. IBF workshops will be open to ICFRM participants.

A technical tour of the CEA-Cadarache center, with visits of Tore Supra fusion device, Jules Horowitz fission Reactor (under construction), and ITER site is scheduled for Wednesday 12 December 2007.

The working language of the conference is English

IEA WORKSHOPS

Programme of IEA satellite workshops will be posted on the conference website. All workshop organizers are requested to contact Dr. A. Moeslang (anton.moeslang@imf.fzk.de)

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.

All papers received in time will be put on a memory stick and included in the registration package. Since the conference has received significantly higher number of abstracts than previous conferences, additional selection criteria for publication in the JNM have been introduced. For instance, publications, in general, will be limited to one paper per registered leading author. Papers that require major revisions may be rejected. Contributing authors will be asked to review conference papers in their field of competence. A good quality assessment and a reasonably speedy reply are essential to maintain the publication standard and schedule. The authors are strongly encouraged to enforce the reviewing process rules established by the publication committee.

A conference office with qualified staff will be available during the conference to assist the authors and the reviewers. Other details including those related to preparation and submission of papers are posted on the conference website.

DOWNLOAD CENTER

A dedicated room (download center) will be available to manage and to transfer automatically presentation files to the conference room. Speakers are invited to go to the download center half day before their presentation.

CONFERENCE REGISTRATION

On-line registration for the conference is available through ICFRM website (<http://www.matheztravel.com/icfrm13/>). Registration fees for pre-and post-registration deadline are given in the Table below.

Registration dates	Before 9 October 2007	After 9 October 2007
Authors and attendees	600 €	700 €
Students	360 €	460 €
Guest banquet ticket	110 €	150 €

The registration fees include documentations, welcome reception, daily refreshments and the banquet but not lunch during the conference.

HOTEL BOOKING

All conference activities will be held at the "Acropolis Palais des Congrès et des Expositions". Participants can book their own accommodation or use the conference on-line booking through the Mathez Travel (<http://www.matheztravel.com/icfrm13/>) with special rates for conference participants.

SOCIAL PROGRAMMES and MEALS

More than 100 restaurants are located near the Conference center (less than 15 minutes walking distance). A good occasion for discovering the old city of Nice!

The city of Nice will host a joint welcome reception for ICFRM-13 and ITER Business Forum participants on Monday evening.

Buses for the technical visit of Cadarache will leave after the morning session (at 12:30). Lunch will be served during the trip to Cadarache. For safety reasons and visit capacity of Tore Supra, the visit will be limited to 250 participants. A registration fee of 30 € per person is required.

The conference banquet will be held on Thursday 13 December 2007 at the famous "Hippodrome de Cagnes-sur-Mer" racecourse.



The conference organizers and Mathez Travel will provide staff assistance to help all participants and their guests to enjoy the conference and many diverse activities in Nice and around Nice. Several package tours are available for booking through the conference website.