

# International Cryogenic Engineering and Materials Conference

<http://icec25-icmc2014.org/index.html>



## First circular and Call for Abstracts

The next joint International Cryogenic Engineering and International Cryogenic Materials Conference will take place from Monday, July 7 through Friday, July 11, at the Campus of the University of Twente in the Netherlands. The chairmen of the joint conference, Marcel ter Brake (for ICEC) and Herman ten Kate (for ICMC) invite you to participate and present the latest results on cryogenic engineering and materials science and technology.

## Scope of the Conference

We wish to bring together the world's experts, engineers, fellows, students, exhibitors and customers on cryogenic engineering, technology, and applications as well on cryogenic materials including super-conductors and applications. Presentations are requested for both oral and poster sessions on the key topics listed hereafter.

## Venue and Hotels

The venue is the Conference Center WAAIER on the beautiful and green Campus of the University of Twente, a complex with 4 amphitheatres and a lovely open space for posters and exhibition.

The conference hotels are partly within walking distance on the campus, while other hotels are in town with free bus shuttles to the conference site.

## Technical and Social Programs

The conference starts on the Monday with 3 free parallel courses on Cryocoolers, Cryostat Design and Power Applications of Superconductivity.

From Tuesday through Thursday there is a daily program of 2 plenary presentations by keynote speakers, 2x3 parallel oral sessions including 18 invited presentations, and the poster session.

On Friday there are 3 parallel technical excursions: The 1<sup>st</sup> tour is to two sites, to AmpaCity in Essen, German (fault current limiter & cable project of RWE, Nexans and KIT) and to HMFL, the High Magnet Field Laboratory in Nijmegen featuring 33 T facilities and a 45 T hybrid under construction. The 2<sup>nd</sup> tour is to three sites, first to Philips Healthcare, then to Stirling Cryogenics and finally to Thales Cryogenics, all in the Eindhoven area. The 3<sup>rd</sup> tour is to the NanoLab of the MESA<sup>+</sup> institute on nanotechnology and the Cryogenics and Superconductivity Labs of the EMS group at the University of Twente.

The rich social program following an all-in concept comprises the Welcome Reception on Monday evening, Exhibitor's Reception and snacks on Tuesday evening, Museum Tour and Walking Dinner on Wednesday evening and the Conference Banquet in town on Thursday evening, as well as all lunches on Tuesday, Wednesday and Thursday.

## Exhibition

We expect some 25 exhibitors, companies and organizations showing their products and services. Potential exhibitors are referred to the conference website for information and possible arrangements.

## Registration Fee and Visa

We have chosen an all-in arrangement for all participants from Monday through Friday covering the regular conference activities enriched now with all lunches, dinners, evening events and transport. The conference fees are:

- 540 € for regular participants when registered before April 1, 610 € till July 1 and 650 € on-site;
- 280 € for students before April 1, a low fee to promote student attendance, late fee of 320 € till July 1, 350 € on-site;
- 200 € for a one-day pass and 150 € for students;
- an extra 40 € for the excursions on the Friday.

In addition all participants pay 120 € for a food and transport pack for all lunches, dinners and drinks during the evening activities.

Persons requiring a visa for the Netherlands are requested to check the instructions on the website for receiving an invitation.

## Plenary, Oral and Poster Presentations

The program counts 6 plenary orals, 18 invited and 108 regular orals presented in 3 days. Posters are presented in 3 sessions on wide 2x1 m<sup>2</sup> poster boards integrated with the exhibition area.

**New!** All oral and poster presentations will be published on-line during the conference on the site:

<http://indico.cern.ch/e/ICEC25-ICMC2014> while the conference website is: <http://icec25-icmc2014.org/index.html>

## Paper Publication and Proceedings

Authors are encouraged to prepare manuscripts for publication in addition to the presentations.

**New!** We decided to change policy and to go for rapid publication of manuscripts. Papers are published within 8 weeks after acceptance in Elsevier's Conference series Physics Procedia, featuring a fast and open access publication with maximum exposure of your work; see: [www.journals.elsevier.com/physics-procedia](http://www.journals.elsevier.com/physics-procedia)

## Call for Abstracts

Abstracts submission is now open for all topics within the scope of the conference and in accordance with the sorting categories listed here below.

Abstracts, in English, are to be submitted on-line through the conference website before March 1, 2014. An abstract comprises a 255 characters title, list of authors and their affiliation and a body of 300 words.

Your preference for an oral or poster presentation can be indicated and the sorting category be specified as well.

## Cryogenic topics

C-01: Large scale refrigeration, liquefaction  
C-02: Cryocoolers, Pulse tube, Stirling, Magnetic etc.  
C-03: Expanders, Pumps, compressors, regenerators  
C-04: Space cryogenic applications  
C-05: Cryostat technology  
C-06: Heat transfer and thermo-physical properties  
C-07: Magnet technology  
C-08: Fusion magnets and conductors  
C-09: Accelerators and detectors  
C-10: Superconducting current leads and links  
C-11: Cryogenics for power appl. and transportation  
C-12: Various applications of superconductors  
C-13: LNG and hydrogen systems  
C-14: New devices and novel concepts  
C-15: Biological, medical and food applications  
C-16: Instrumentation and process control  
C-17: Safety, reliability and standards

## Materials topics

M-01: NbTi/Nb<sub>3</sub>Sn processing and properties  
M-02: RE123 conductors processing and properties  
M-03: BSCCO processing and properties  
M-04: MgB<sub>2</sub> processing and properties  
M-05: Thin films  
M-06: HTS bulk  
M-07: Pnictides and new superconducting materials  
M-08: Superconductor stability and AC losses  
M-09: Flux pinning and critical current  
M-10: Metallic and composite materials  
M-11: Insulation and impregnation materials  
M-12: Radiation and other degradation effects  
M-13: Cryogenic materials testing and methods  
M-14: Cryogenic low and high power electronics

## ICEC Committee and ICMC Board of Directors

This conference is organized under auspices of the ICEC Committee and the ICMC Board of Directors, see the website for more details on their composition: <http://icec25-icmc2014.org/organization/index.html> .

## Local Organizing Committee

Marcel ter Brake, chairman of ICEC-25 and Herman ten Kate, chairman of ICMC-2014, assisted by Marc Dhalle, Harry Holland, Hennie Knoopers, Erik Krooshoop, Arend Nijhuis, Srinivas Vanapalli, Ans Veenstra, Inke in de Wal and Sander Wessel

## Scientific Program Committee

Johan Bremer (Chairman), CERN, Switzerland  
Bernardo Bordini, CERN, Switzerland  
Luca Bottura, CERN, Switzerland  
Pierluigi Bruzzone, EPFL-CRPP, Switzerland  
Ho-Myung Chang, Hong Ik University, Korea  
Arnaud Devred, ITER, France  
Lijian Rong, IMR CAS, China  
Shi Xue Dou, University of Wollongong, Australia  
Lionel Duband, CEA, Grenoble, France  
Naoyuki Amemiya, Kyoto University, Japan

Christoph Haberstroh, TU Dresden, Germany  
Takanobu Kiss, Kyushu University, Japan  
Peter Lee, NHFML, Tallahassee, Florida  
John Pfothenauer, University of Wisconsin, USA  
Limin Qiu, Zhejiang University, China  
Steve Van Sciver, Florida State University, USA  
Vitaly Vysotski, R&D Cable Institute, Moscow  
Marcel ter Brake, ex officio LOC  
Herman ten Kate, ex officio LOC

## Key dates and Deadlines

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1 December 2013:	Call for abstracts is open
1 December 2013:	Registration is open
<b>1 March 2014:</b>	<b>Abstracts deadline</b>
1 April 2014:	Abstracts acceptance note
<b>1 April 2014:</b>	<b>Early registration deadline</b>
1 July 2014:	Late registration deadline
7-11 July 2014:	Conference running
<b>9 July 2014:</b>	<b>Paper submission deadline</b>

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