

IAEA 8th Technical Meeting

on Control, Data Acquisition and Remote
Participation for Fusion Research

June 20-24, 2011 • San Francisco, CA



The International Atomic Energy Agency (IAEA), the MIT Plasma Science and Fusion Center, and National Ignition Facility at Lawrence Livermore National Laboratory invite participation in the Eighth IAEA Technical Meeting (IAEA-TM) on Control, Data Acquisition, and Remote Participation for Fusion Research

The IAEA-TM2011 will take place in San Francisco, California, USA, from Monday, June 20, through Friday, June 24, 2011, at the Westin Market Street Hotel. An MDSplus satellite meeting is planned for Friday afternoon following the meeting.

Previous meetings were held in Garching, Germany (1997); Lisbon, Portugal (1999); Padova, Italy (2001); San Diego, California, USA (2003); Budapest, Hungary (2005); Inuyama, Japan (2007); and Aix en Provence, France (2009).

Objective

This meeting is being held so that experts in the fields of control, data acquisition, data management, and remote participation for nuclear fusion research from around the world can share new developments and exchange perspectives.

This meeting is being hosted by the National Ignition Facility, and will have a particular focus on the exchange of ideas between inertial and magnetic fusion technologists.

Topics

The meeting will cover the following topics:

- Plasma Control
- Machine Control, Monitoring, Safety, and Remote Manipulation
- Data Acquisition and Signal Processing
- Database Techniques for Information Storage and Retrieval
- Advanced Computing and Massive Data Analysis
- Remote Participation and Virtual Laboratories
- Fast Network Technology and its Applications

With special sessions for:

- Magnetic Fusion Spotlight (including ITER)
- Inertial Fusion Spotlight (including NIF)

Access**Getting There:**

There are three major airports in the San Francisco Bay area: San Francisco International, Oakland, and San Jose. BART trains transport travelers from the San Francisco and Oakland airports to downtown San Francisco, for easy access to the Westin Market Street Hotel.

Public Transportation:

Driving around San Francisco presents many hazards: steep hills, one-way streets, exorbitant parking fees, and endless traffic congestion. You are strongly encouraged to use the city's various forms of public transportation.

Publication

Booklet of Abstracts

The printed abstracts of invited talks and contributed papers will be distributed to the participants at the meeting reception desk.

Electronic Proceedings

Electronic proceedings of the meeting, consisting of slides, posters, or brief versions of the talks, will be made available to all participants on CD after the meeting. These proceedings will also be made available to the participants on restricted-access web pages.

Journal Publication

Publication of a subset of contributions in a refereed journal is planned. Papers from past meetings have been published in special issues of the international journal "Fusion Engineering and Design," published by Elsevier Science.

Participation and Submission of Papers

All persons who consider participating in the meeting are invited to complete an Expression of Interest form and submit to organizers by one of the following methods:

- Email to: [IAEATM-2011@lnl.gov]
- Fax to: [617-715-5637]

Participation and Paper Submission Procedure

To participate in the meeting, please send a completed IAEA Participation Form (PDF, Microsoft Word) to the IAEA. If you intend to submit a contribution, you will also need to submit the IAEA Abstract Submission Form (PDF, Microsoft Word) with a one-page, text-only abstract of your presentation or poster to your appropriate authority (e.g. Ministry of Foreign Affairs or National Atomic Energy Authority) for subsequent transmission to the IAEA. A participant will only be accepted if the Participation Form is transmitted through the appropriate authority. The forms and abstracts must be received by **February 28, 2011**. Participants whose nominations have been received by the IAEA will be notified by **March 31, 2011**.

Individuals who intend to contribute a talk or poster should also send one copy of the IAEA Participation Form, Abstract Submission Form, and abstract to both of the following:

IAEA Scientific Secretary

- Email to: [physics@iaea.org]
- Fax to: [+43-1-26007]

IAEA-TM2011 Meeting Secretary

- Email to: [IAEATM-2011@lnl.gov]
- Fax to: [925-424-3295]

Final papers must be submitted as electronic files no later than **June 22, 2011**. Paper copies are discouraged.

For personnel supported by the Department of Energy, Office of Science, the participation forms must be transmitted through the Office of Fusion Energy Sciences (FES) as the nominating national authority. DOE/FES must have this information by Monday, February 14, 2011 in order to conduct a management review and meet this International Atomic Energy Agency (IAEA) deadline.

Email the abstract and IAEA Forms A and B (please note that Form B must be signed and dated) as soon as possible, but no later than the deadline above, to Debra Frame, debra.frame@science.doe.gov, and Mark Foster, mark.foster@science.doe.gov. Participants must also follow the directions in the meeting announcement regarding the registration requirements and other required distributions of these forms and abstract. If it is not possible to scan and email a signed Form B, fax a copy to Mark Foster at (858) 909-5955 and Debra Frame at (301) 903-1233.

In addition to the IAEA forms mentioned above, all DOE/SC/FES nominated participants will also need to complete a DOE-IAEA Event Form. Please request a copy of this form from Mark Foster and/or Debra Frame at the email addresses listed above.

Abstract Submission

Authors need to submit their abstracts before **February 28, 2011** following the instructions contained in: <http://www.iaea-tm2011.org/abstracts/>

After selection by the International Program Advisory Committee, notification will be sent to authors by **March 31, 2011**.

Expenditures and Financial Support

The costs for the organization of the meeting are borne by the host organization and the IAEA. No registration fee will be charged to participants.

However, to help defray some of the expenses such as hospitality and publication costs, participants are requested to pay a nominal contribution to the local organizer directly upon registration.

As a general rule, the IAEA does not pay travel and accommodation expenses for meeting participants. However, limited funds are available to help meet the cost of attendance of a few selected specialists, primarily those from developing countries with low economic resources. Generally, no more than one grant will be awarded to any one country. The grants awarded will be in the form of lump sums and usually only cover part of the cost of attendance.

If governments wish to apply for a grant on behalf of one of their specialists, they should address specific requests to the IAEA Scientific Secretary at the IAEA. Governments should ensure that applications for grants:

- Are received by the IAEA by **March 13, 2011**;
- Are accompanied by a completed and signed Participation Form (see above), including the abstract of the paper to be presented; and
- Are accompanied by a completed and signed Grant Application Form (PDF, Microsoft Word), as well as an estimate of a valid travel agent of the flight costs to and from the nearest city or capital city of their country and the conference location

Applications that do not comply with the conditions mentioned above cannot be considered. Awards will be announced around **April 15, 2011**.

Visas

Designated participants who require a visa to enter the United States should submit the necessary application as soon as possible. A letter of invitation, if needed, should be requested from the local organizer by emailing IAEATM-2011@lnl.gov.

International Program Advisory Committee

Karl Behler	Max-Planck-Institut für Plasmaphysik, EURATOM Association	Germany
Thomas Casper	LLNL	USA
Jonathan Farthing	Euratom/UKAEA, Fusion Association	United Kingdom
Bernard Guillerminet	CEA/Cadarache, Association Euratom-CEA	France
Larry Lagin	LLNL	USA
Bill McHarg	General Atomics	USA
Yoshio Nagayama	National Institute for Fusion Science	Japan
Osamu Naito	Japan Atomic Energy Agency	Japan
Wanderley Pires de Sa	Institut of Physics	Brazil
Harshad Pujara	Institut for Plasma Research	India
Volker Schmidt (guest editor)	Consorzio RFX-Associazione, EURATOM-ENEA sulla Fusione	Italy

Jorge Sousa	Associação EURATOM/IST, Centro de Fusão Nuclear	Portugal
Joshua Stillerman (Chairperson)	MIT-PSFC	USA
Bingjia Xiao	Institute of Plasma Physics, Chinese Academy of Sciences	China

Local Organizing Committee

Richard Kamendje (IAEA Scientific Secretary)	<p>Physics Section Division of Physical and Chemical Sciences International Atomic Energy Agency Vienna International Centre</p> <p>Wagramer Str. 5, A-1400 Vienna, Austria Phone: +43-1-2600-21756, FAX: +43-1-26007</p> <p>E-mail: physics@iaea.org</p>
Larry Lagin (Chairperson)	<p>Lawrence Livermore National Laboratory National Ignition and Photon Science Directorate 7000 East Avenue Livermore, CA 94551 E-mail: IAEATM-2011@llnl.gov</p>
Trina Voelker	
Jenessa Huffman	
Peg Folta	
Tim Frazier	

Bob Demaret	
Kim Jordan	
Irene Dias	

General Contact Information

Please address communications to Meeting Secretary, IAEA-TM 2011

Email to: IAEATM-2011@Inl.gov

Fax to: 925-424-3295