

Key Deadlines

12 February – 12 March 2018	Electronic submission of abstracts and two page synopses (IAEA-INDICO open)
29 March 2018	Submission of Forms A, B and C to the IAEA through official channels
31 May 2018	Notification of acceptance of papers
15 July 2018	Deadline for submitting visa applications (recommended)
31 July – 27 September 2018	Submission of preprints (IAEA-INDICO open)
20 September 2018	Deadline for submission of post-deadline papers (two page synopses) in pdf to fusion-physics@iaea.org together with officially endorsed forms A and B
22 October 2018	Conference commences
22 October 2018	Evaluation of post-deadline papers
27 October 2018	Conference ends
March 2019 (approximately)	Conference material on website

Beginning of On-site Registration

Sunday, 21 October 2018

Conference Secretariat

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FEC 2018

27TH IAEA FUSION ENERGY CONFERENCE

22–27 October 2018
Ahmedabad, India

Organized by the



IAEA
International Atomic Energy Agency

Hosted by the Government of India
through the



Institute for
Plasma Research

Background

The International Atomic Energy Agency (IAEA) fosters the exchange of scientific and technical results in nuclear fusion research and development through its series of Fusion Energy Conferences. The 27th IAEA Fusion Energy Conference (FEC 2018) aims to provide a forum for the discussion of key physics and technology issues as well as innovative concepts of direct relevance to the use of nuclear fusion as a source of energy.

Objectives

With a number of next-step fusion devices currently being implemented — such as the International Thermonuclear Experimental Reactor (ITER) in Cadarache, France, and the Wendelstein 7-X stellarator in Greifswald, Germany — and in view of the concomitant need to demonstrate the technological feasibility of fusion power plants as well as the economic viability of this method of energy production, the fusion community is now facing new challenges. The way these challenges are addressed will dictate research orientations in the present and coming decades.

The scientific scope of FEC 2018 is, therefore, intended to reflect the priorities of this new era in fusion energy research. The conference aims to serve as a platform for sharing the results of research and development efforts in both national and international fusion experiments that have been shaped by these new priorities, and to thereby help in pinpointing worldwide advances in fusion theory, experiments, technology, engineering, safety and socio-economics. Furthermore, the conference will also set these results against the backdrop of the requirements for a net energy producing fusion device and a fusion power plant in general, and will thus help in defining the way forward.

With the participation of international organizations such as the ITER Organization and the European Atomic Energy Community (Euratom), as well as the collaboration of more than forty countries and several research institutes, including those working on smaller plasma devices, it is expected that this conference will, like previous conferences in the series, serve to identify possibilities and means for continuous and effective international collaboration in this area.

Topics

- OV Overviews
- EX Magnetic Confinement Experiments (for the subtopics, see Annex A)
- TH Magnetic Confinement Theory and Modelling (for the subtopics, see Annex A)
- PPC Plasma Overall Performance and Control
- IFE Inertial Fusion Experiments and Theory
- ICC Innovative Confinement Concepts
- FIP Fusion Engineering, Integration and Power Plant Design
- FNS Fusion Nuclear Physics and Technology
- MPT Materials Physics and Technology
- SEE Safety, Environmental and Economic Aspects of Fusion

Programme Structure

The overall conference programme will consist of an opening session, selected overview sessions, technical sessions with invited and contributed papers, summary sessions, daily poster sessions and a closing session. During the conference, the 2018 Nuclear Fusion Award winner will be announced, and both the 2017 and 2018 prizes presented.

Target Audience

The conference aims to bring together senior scientific fusion project leaders; plasma physicists including theoreticians and experimentalists; experts in the various multidisciplinary fields of fusion science and technology; materials engineers; and operators of fusion devices.

Side Events

Exhibitions on fusion technology and satellite meetings are expected to take place during the conference.

Language

The conference will be held in English.

Registration Fee

No registration fee is charged to participants.

Conference Announcement and Call for Papers

The full conference announcement and call for papers is available on the IAEA conference web site:
<https://www.iaea.org/events/fec-2018>

Electronic Submission of Abstracts and Two Page Synopses (IAEA-INDICO):

<https://conferences.iaea.org/indico/>

IAEA's Fusion Portal (providing useful information):

<https://nucleus.iaea.org/sites/fusionportal/Pages/Fusion%20Portal.aspx>