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1 November 2006

## News

### IAEA Fusion Energy Conference held in China

The 21st IAEA Fusion Energy Conference was held from 16-22 October in Chengdu, China. The bi-annual conference provides a forum for presenting and discussing the progress that is being made in fusion experiments, theory, and technical developments.



The group leader of the Safety, Environment and Health group, Jean Philippe Girard, explaining ITER safety systems to a participant of the IAEA conference

Director General Nominee of ITER, Kaname Ikeda, gave an overview in which he described the roles and responsibilities of the partners who will take part in constructing ITER, the present status and structure of the ITER organization, and its targets in the short term. ITER PDDG Nominee Norbert Holtkamp spoke about the engineering challenges for ITER, such as the performance of the superconducting magnets, neutral beam development, and flexibility during operation. He also described the design review process, which should lead to a new ITER baseline design in spring 2007.

Many of the presentations of the conference are available on the web [here](#) and [here](#). ITER presentations are available on the multimedia / presentation section of the ITER website. The next IAEA fusion conference will be held in Geneva, Switzerland, in 2008.

## On Site

## News

### Financial agreement in support of ITER signed by French regional authorities

On 9 October French local authorities (the PACA Regional Council, plus the Communauté des Pays d'Aix and six Departmental Councils: Bouches-du-Rhône, Var, Alpes-de-Haute-Provence, Hautes-Alpes, Vaucluse and Alpes-Maritimes) put their signatures to the financial agreement that confirms their support for ITER to the tune of 467 M Euro. When the contributions of the French State and of the CEA, their partners in this financial agreement, are taken into account, the total reaches 735 M Euro. The financial package is for the actual experiment, schooling, land management, and transport (notably modifications in some parts of the 100km road to take the wide loads from the harbour to the ITER site), but also for a cash contribution to the financing of the Project through the EU.

The Regional Prefect Christian Fremont emphasised at the press conference "if there had not been total unanimity on the part of local government to commit to substantial financial involvement, ITER would not have been sited at Cadarache."

## People

### Introducing ... Shaoqi Wang, DDG Nominee for Administration

Born in 1944 in Beijing, Dr. Shaoqi Wang received his Doctorate in Electronic Engineering in 1984 in France, at the Institut National Polytechnique de Grenoble. Before that he had been an electrical engineer at the China Xinhe shipyards for ten years, responsible for electrical engineering design and installation. In 1984 he became Director of European Affairs at the Department of International Cooperation of the State Science and Technology Commission of China.



Mr Shaoqi Wang, DDG Nominee for Administration

Embassy. His French therefore is close to

After four years as Science Counsellor in the Chinese Embassy in Paris he returned to China as Director-General, Department of International Cooperation, Ministry of Science and Technology of China. Since 2001, Shaoqi Wang returned to Paris as Minister- Counsellor at the Chinese

## Directors' Corner

### Moving ahead

"Over the last several weeks the Joint Work site at Cadarache has become a lot more lively. More and more members from the international team located so far in Naka and Garching are moving to Cadarache, and the Welcome Office as well as the ITER staff have their hands full supporting an efficient kick off for everybody.



Principal Deputy Director General Nominee, Norbert Holtkamp

"Within the team the preparations of the organizational structure as well as the beginning of the design review takes most of our time. Seven initial working groups have been formed, in collaboration with the parties as well as with external experts, to deal with the most urgent technical and integration issues of ITER. They will start meeting in November with a goal to deliver a new baseline design to the ITER council by late spring next year."

-- Norbert Holtkamp, ITER PDDG Nominee.

## ITER Community

### ITER-India

India became a full seventh partner of ITER in December 2005. The Institute for Plasma Research (IPR), located in Gandhinagar, western India, forms the Indian Domestic Agency, empowered to design, build and deliver those contributions to ITER which have been agreed in the procurement sharing. The ITER activities of IPR have been named *ITER-India*, and its formal organizational structure was constituted on July 5th, 2006.

## Presentation of book on ITER

On November 28th, Jean Jacquinot and Robert Arnoux will present their book on ITER, called "ITER, le chemin des étoiles?". The book is written in French, and aimed at a non-scientific readership.

Jean Jacquinot is currently scientific adviser to the French High Commissioner for atomic energy, and is a former Director of JET and Head of the CEA fusion programme. Robert Arnoux is a distinguished French journalist, who writes for the newspaper *La Provence*. The book presentation is part of the lecture series "Les Matinées de Cadarache", on the CEA site (see "Calendar").



## Welcome day for ITER spouses



On 24 October, the Agence ITER France invited the wives of the growing international ITER staff for a 'Discovery Day' around the ancient cities of Aix-en-Provence and Marseille. Thirteen ladies from India, Japan, Canada, the United States, Korea and Europe plus three children took the opportunity.

On foot they first discovered the medieval lanes of Aix, led by an official guide. Then they drove to Marseille to explore the vibrant silhouette of Europe's third biggest harbour, climbed Notre Dame de la Garde and finally they were shown the best places to buy fresh fish, exotic spices and fine clothing. By the end of the day, they decided to create an "Association of ITER spouses". For further information about the activities, please contact the Welcome Office at +33 (0) 4 42 25 33 61.

## Calendar

perfect, which will help him as ITER Deputy Director General for Administration. As such he will be responsible for all Human Resources aspects of the project as well as budgeting, contract procurements and – last but not least - public relations. "As more and more people learn about the project there will be an increasing demand for information", he says.

## Fusion World

### Nuclear Fusion Award winner announced

At the 21st IAEA Fusion Energy Conference in Chengdu, China, the lead author of a paper that demonstrates how one of the primary physics goals of ITER might be more safely realised was awarded the inaugural Nuclear Fusion Award, which is presented by the IAEA.



Winner of the inaugural Nuclear Fusion Award, Dr Timothy C. Luce (General Atomics), is presented with his award by Professor Werner Burkart (Deputy Director General, International Atomic Energy Agency) and Dr Mitsuru Kikuchi (Chairman of the Board of Editors, Nuclear Fusion and Director Division of Advanced Plasma Research, Japan Atomic Energy Agency) at the 21st IAEA fusion conference.

T.C. Luce et al. were awarded the prestigious prize for their paper 'Stationary high-performance discharges in the DIII-D tokamak' (Nuclear Fusion 43 (5), pp. 321-329). The paper outlines a tokamak scenario that can maintain high fusion performance at reduced plasma current (compared with the conventional tokamak operational scenario), thereby lessening the potential for structural damage in the event of a plasma disruption. Projections in the paper show that realization of this scenario in ITER could lead to fusion performance at or above an energy gain of 10 for longer duration with reduced risk.

[Read more ...](#)

## Newsline editors



Inside the Institute for Plasma Research, Gandhinagar, India

IPR is an autonomous physics research institute, carrying out research in basic and applied plasma physics. Although the institute harbours a large number of basic experimental devices for research in plasma physics, the main thrust of the research is high temperature tokamak experiments. The institute is currently in the process of building the Steady State Superconducting Tokamak (SST-1).

[Read more on the people and activities of ITER-India ...](#)

## Announcements

### Papers from IAEA FEC on the web

The presentations delivered at the IAEA Fusion conference (16-22 October, Chengdu, China) are available [on the web](#).

### Greifswald PFMC materials on the web

The presentations of the *Workshop on Plasma-Facing Materials and Components for Fusion Application* (PFMC-11, 10-12 October, Greifswald, Germany) are available [on the web](#).

### Design Integration Meeting

On Tuesday, November 7th, the *Design Integration – Design Office* (DI-DO) will come together for its next regular meeting. The purpose of these meetings is to keep the ITER staff as well as the staff of the domestic agencies informed about the proceedings with regard to ITER design, integration issues, analysis, upcoming design changes, Catia-V5-release, meetings and many more issues. For the next DI-DO meeting the three ITER Joint Work Sites in Cadarache, Garching and Naka will be connected via video conference sharing. After the meeting all the presentations will be saved into IDM so that anyone that has not been able to attend the meeting can access all relevant information.

## Image of the Week

## Upcoming meetings, conferences, workshops

### [Active Control of MHD Stability: Active MHD Control in ITER](#)

Princeton, NJ, USA  
November 6-8, 2006

### [17th ANS Topical Meeting on the Technology of Fusion Energy \(TOFE\)](#)

Albuquerque, NM, USA  
November 13-15, 2006

### **Signature ITER Agreement**

Elysée, Paris, France  
(More information to follow)  
November 21st

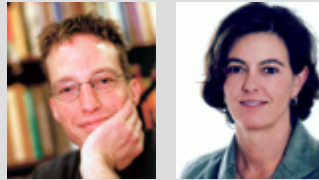
Book presentation "ITER, le chemin des étoiles?", authors Jean Jacquinot and Robert Arnoux.

In the series *Les Matinees de Cadarache*,  
CEA site, building 151  
November 28th, 11.00 hours

### [ITER 2006 - Une étape majeure vers l' énergie de fusion nucléaire](#)

Centre de Congrès d'Aix en Provence, France  
January 22-24, 2007

The ITER Newsline is produced by Mark Tiele Westra and Sabina Griffith. Suggestions for future articles, comments and corrections, as well as items for the calendar are welcome, and can be sent to mark.westra@iter.org.



Mark Tiele Westra and Sabina Griffith

## Fusion on the road



A truck in Sydney, Australia. Click on the picture for a high-resolution image.

This picture of a Gillette truck was taken by David Campbell (ITER), right outside the hotel in Sydney where the Australian ITER forum took place on 12-13 October. It clearly demonstrates that fusion has found its way into popular culture...