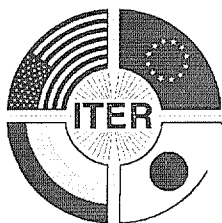




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# INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR

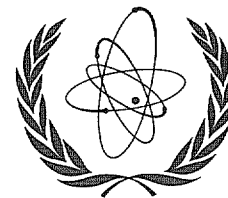


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### THE ITER MANAGEMENT ADVISORY COMMITTEE (MAC) MEETING IN CADARACHE

by Dr. M. Yoshikawa, MAC Chair

The ITER Management Advisory Committee (MAC) Meeting was held on 8 March 1999 in Cadarache, France.

The main topics were the ITER EDA Status, the MAC revision of the Task Status Summary and Work Program, the New JC organization, the Joint Fund, the Interface Issues linked to the phasing out of US Activities and a schedule of ITER meetings.

#### ITER EDA Status

MAC noted the Director's ITER EDA Status Report in the period between the ITER Meeting in Yokohama (20-21 October 1998) and February 1999 (see separate article, NL Vol.8, No. 2, February 1999). In particular, MAC shares the Director's concern about the uncertainties against which the whole project operates at present. MAC also noted that the definition of an appropriate framework for continued US involvement in on-going projects is a very important issue.



*Participants in the Meeting at the upper terrace of Cadarache Castle*

30 - 24 *al*

### **Task Status Summary and Work Program**

MAC reviewed and supported the modifications of Task Agreements (TAs) since MAC-14 the credit changes of which are more than 500 IUA, or more than 20%. MAC took note of the modifications of Task Agreements the credits of which are less than 500 IUA, or not more than 20% and cancellation of Task.

MAC reviewed and supported the credit modification of the 96-98 Comprehensive Task Agreement for Design.

The Director reported the summary of R&D and Design Task Agreements during the 6 years period of 1992-1998. The total resources are summarized as 555,949 IUA for the Technology R&D and 694 PPY for the Design Tasks. The task status has been improved significantly during the last six months. As of 26 February, 641 out of 679 Technology R&D TAs have been completed or are to be completed with receipt and/or acceptance of their Final Reports. MAC urges the Home Teams to circulate promptly the remaining final task reports after approval, according to the agreed procedures.

MAC noted that the revised Work Program and its allocation of resources for priority one items during the three-year extension of the EDA is basically the same as reviewed at MAC-14. MAC recommends the ITER Council to approve the revised Work Program. After the ITER Council decision on the design option, the Work Program for priority two will be considered.

### **New JCT Organization**

Following the closure of the San Diego Joint Work Site, the Director proposed a revised organizational structure and related changes to Deputy Directors' functions (see separate article below). The Physics Integration Unit and Safety, Environment and Health Division have been severely depleted by the withdrawal of US JCT members and by other staff losses. It is planned to rebuild the Units with new JCT assignments.

### **Joint Fund**

MAC will review the consolidated accounts for the ITER Joint Fund Budget of 1998 in the next meeting. At this time, MAC took note of the present situation of the ITER Joint Fund presented orally by the Director.

### **Interface Issues Linked to the Phasing out of US Activities**

MAC took note of the present status of the Commingled R&D Components. MAC asked Dr. Rager (EU MAC-CP), in consultation with the HTLs and the JCT, to complete the information on the ownership and value (IUA) of the Commingled R&D Components. MAC requested the MAC-CPs in the light of the Interface Sub-Group Report to develop arrangements among the Parties, especially to reserve common rights on usage of Commingled R&D Components.

With regard to the US withdrawal from ITER, MAC recommended the ITER Council to request the IC CPs to consult among the Parties in order to reach consensus on an appropriate framework for the US to continue its involvement in previously committed ITER tasks.

### **Schedule of ITER Meetings**

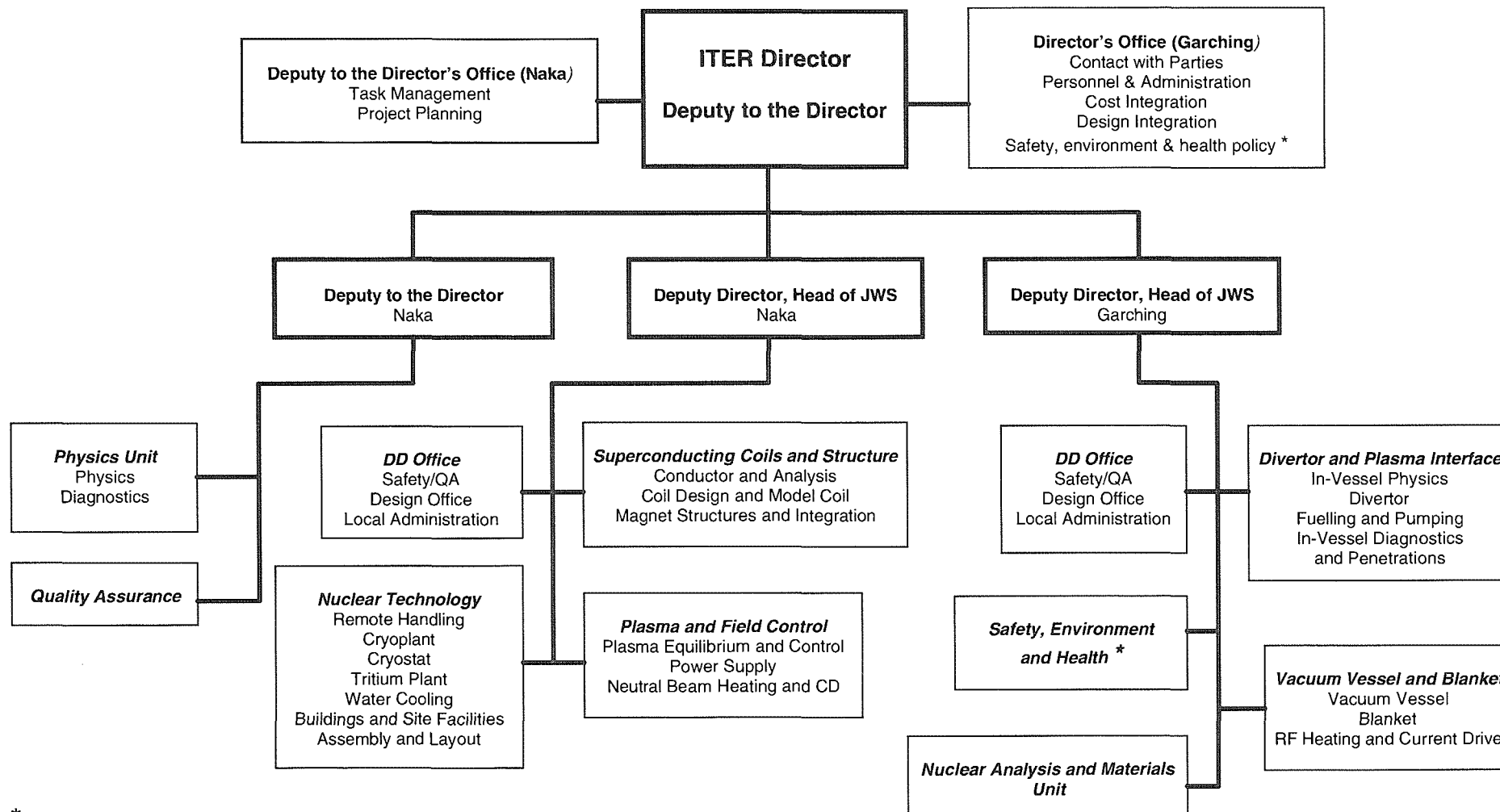
Plans for the next Physics Expert Groups Meetings will be made as soon as the Chairs, Co-Chairs and members/experts have been selected. The proposals will be circulated through MAC CPs for review by the Parties through written procedure.

## **REVISED STRUCTURE OF THE ITER JOINT CENTRAL TEAM**

Following the closure of the San Diego Joint Work Site, the ITER Parties, at a Meeting at Cadarache (March 1999), approved the revised organizational structure and related changes to Deputy Directors' functions.

The basic distribution of design work – of in-vessel systems at the Garching Joint Work Site and of out-vessel systems at the Naka Joint Work Site – is unchanged, and the Divisions existing already at Naka and Garching will be maintained.

The project-wide functions and activities formerly at the San Diego Joint Work Site have been distributed to Garching and Naka with an approximate balance between the two sites (see chart, which provides a summary description of the envisaged functions/activities of each of the divisions/groups of the revised structure).



\* Under the line management of the DD and Head of the JWS Garching, but also reporting directly to the Director on the development and implementation of the project policy in this area.

### ITER JOINT CENTRAL TEAM STRUCTURE

The **Physics Integration** Unit will now be based at Naka and will continue to report to the Deputy to the Director. The work in the area of **Safety, Environment and Health** will be undertaken by a Group based in Garching, but with one member matrixed at Naka. The Group will come under the line management of the Deputy Director and Head of Joint Work Site at Garching, but will also report directly to the Director on the development and implementation of project policy in this area.

Functions of the former **Engineering** Division will be taken over by a Group newly established within Nuclear Technology Division in Naka. The Division will also encompass assembly planning work, formerly done in Design Integration Division at San Diego.

The main **Design Integration** functions, including engineering analysis and configuration and layout control, will be the responsibility of a Unit at Garching, with one member matrixed in Naka. The Unit will report to the Director so as to maintain project-wide responsibility.

The functions and responsibilities of the Deputy Directors follow directly from the proposed organizational structure. The Heads of the two Joint Work Sites also have responsibility for interaction with the respective Host Organizations and Host Parties on the general management of the Joint Work Site and the provision of the Host environment and support.

In addition, the Deputy Directors, acting through the General Project Board, will continue to assist the Director in formulating the programme and management policies to be adopted within the JCT and in validating the solutions to the major issues.

**ITER TECHNICAL ADVISORY COMMITTEE MEETING AT GARCHING**  
by Prof. M. Fujiwara, TAC Chair



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**Professor Masami Fujiwara was born in 1941. He received a Ph.D. (1970) in Physics from Nagoya University. After working for 18 years at the Institute of Plasma Physics of that University, he joined the National Institute for Fusion Science (NIFS) as the Director of its Large Helical Device (LHD) Project Department. In April 1999, he was appointed Director-General of NIFS. He has been the designated person for the ITER Physics R&D Committee and a Japanese member of the ITER Special Working Group from 1998 to 1999.**

The ITER Technical Advisory Committee (TAC) meeting took place on 24-27 February at the Garching Joint Work Site. According to the discussions at the ITER meeting held in Yokohama in October 1998, the TAC was requested to conduct a thorough review of the document "Study Options for the Reduced Technical Objectives / Reduced Cost (RTO / RC) ITER," which was issued on 12 February 1998 by the Director. In order to provide a basis for rigorous exploration and qualification of controversial issues and cost accounting, two representative options were selected in the above document for more detailed studies, namely IAM and LAM.

Many of the TAC members have been replaced, and the current list of its members is shown below. In addition, Dr. T. Fukuda was appointed as TAC Secretary.

Chair	Prof. M. Fujiwara	National Institute of Fusion Science
EU	Dr. R. Andreani	EURATOM ENEA Association
EU	Dr. J. Jacquinet	JET Joint Undertaking
EU	Dr. D. C. Robinson	EURATOM UKEA Association
EU	Prof. F. Troyon	EURATOM Swiss Confederation Association
JA	Prof. S. I. Itoh	Kyushu University
JA	Prof. S. Tanaka	Tokyo University