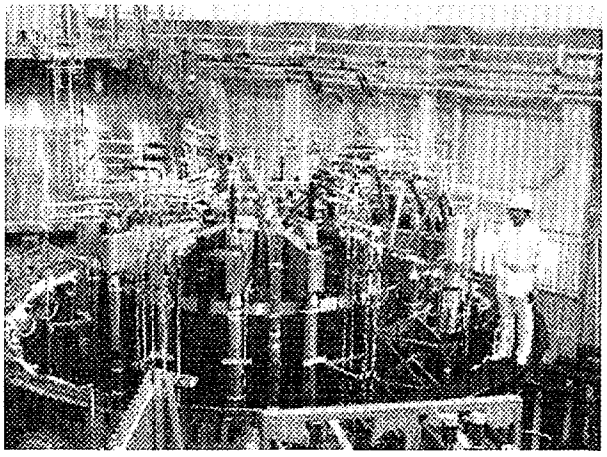
Table 3 - ITER PHYSICS EXPERT GROUPS (1999-2001)

	Chair	Co-Chair	EU	JA	RF
Physics Committee	ITER Director	M. Shimada			
Designated Persons			D. Campbell	M. Wakatani H. Ninomiya	N. Ivanov
Senior Physicists			M. Keilhacker C. Lackner	T. Tamano R. Yoshino	Y. Dnestrovski S. Mirnov
Diagnostics	A.J.Donne	A. Costley	F. Orsitto P.E. Stott	H. Zushi Y. Kusama T. Sugie	V. Strelkov A. Kisliakov A. Krasilnikov
Scrape-off-layer and Divertor Physics	N. Asakura	A. Loarte	G. Matthews J. Neuhauser V. Phillips Ph. Gendrih	T. Kato S. Takamura A. Sakasai	V. Pistunovich
Edge and Pedestal Physics	Y. Kamada	G. Janeschitz	L. Horton W. Suttrop H. Weisen	N. Ohyabu T. Hatae	V. Osipenko
MHD, Disruption and Control	O. Gruber	Y. Gribov	O. Gruber T. Hender J. Lister	S. Tsuji-Iio T. Ozeki R. Yoshino	V. Lukash S. Mirnov N. Ivanov
Energetic Particles, Heating and Steady State Operation	C. Gormezano	K. Miyamoto	A. Becoulet A. Jaun	A. Fukuyama Y. Takase K. Tobita S. Ide	K. Razumova V. Vdovin S. Konovalov
Transport and Internal Barrier Physics	M. Wakatani	V. Mukhovatov	X. Garbet F. Soldner J. Connor	K. Toi T. Fukuda	Y. Esipchuk V. Vershkov S. Lebedev
Confinement, Database and Modelling	G. Cordey	V .Mukhovatov *(interim)*	F. Ryter J. Connor	T. Takizuka Y. Ogawa Y. Miura	A. Chudnovski V. Leonov

Physics Committee Members are shown in the fields with grey shadow

COMPLETION OF THE ITER CENTRAL SOLENOID MODEL COILS INSTALLATION

by Dr. H. Tsuji, Head, Superconducting Magnet Laboratory, JAERI, Naka



The CS Model Coil and CS Insert Coil after the completion

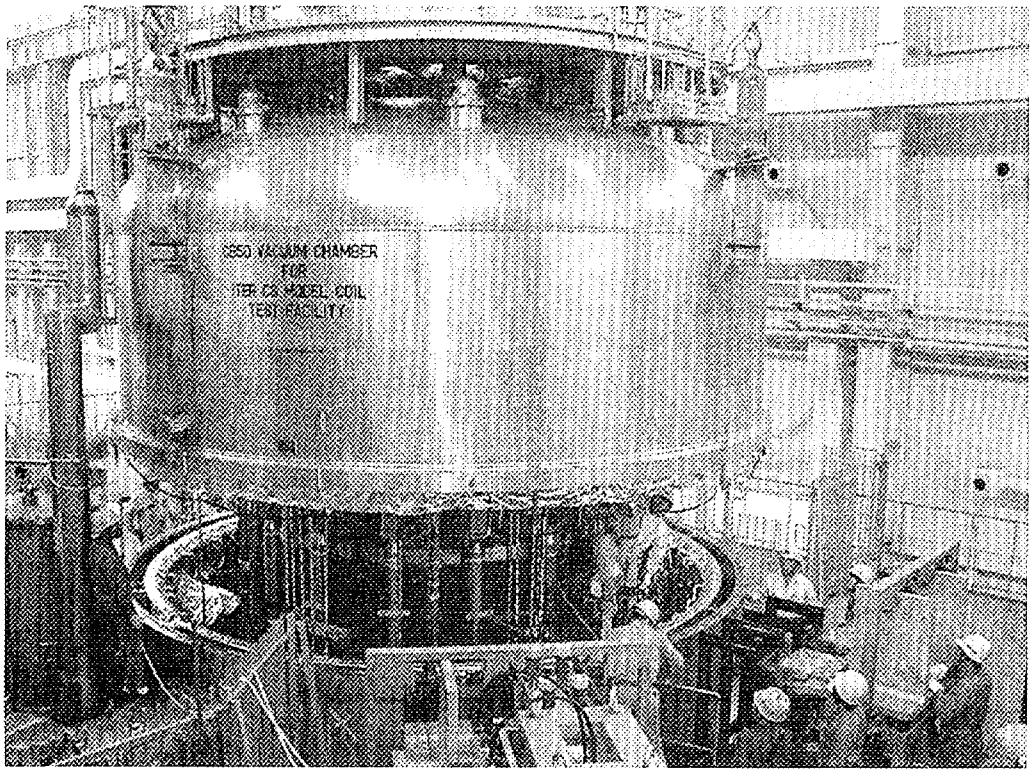
From June 2, 1999, after the ceremony held on the successful fabrication of the Central Solenoid (CS) Model Coils the day before, installation of the ITER CS Model Coil Inner Module, CS Model Coil Outer Module and the CS Insert Coil has been carried out by the US Installation Team, headed by R. Vieira, the JA Installation Team, headed by T. Kato, and the Toshiba Installation Team, headed by S. Ikeda, working in close collaboration under the supervision of the JCT Team, headed by

XA0053859

During the installation of the three Nb3Sn superconducting coils into the vacuum tank, dozens of problems were faced and successfully overcome one by one at JAERI-Naka.

128 days had passed after the first tension rod was installed on 2 June, till installation work was completed and the vacuum tank was closed on 7 October 1999, at 11:45 a.m.

The total winding weight of the coils now in the tank is 110 tons and the total weight to be cooled down to 4K is 180 tons. The outer diameter of the winding is 3.6 m being similar to that of the CS of the reduced size ITER. The number of pipe weldings was 895, and about 550 sensors were also installed to monitor the performance of the coils.



The upper lid of the vacuum tank has been slowly brought down. K. Kawano, a staff member of the JAERI superconducting magnet laboratory, is still inside the tank, carefully watching the closure of the vacuum tank to prevent any damage to the coil system.

On October 14, 1999, the CSMC and CSIC system passed the High-Potential Test with the following results:

The CS Model Coil (Inner Module and Outer Module) System: applied voltage = 20.7 kV, duration = 10 minutes, leak current = 125 micro-ampere

The CS Insert Coil System: applied voltage = 20.7 kV, duration = 10 minutes, leak current = 20 micro-ampere

The vacuum pumping is scheduled to start on October 18, 1999.

After the vacuum pumping down and the final helium leak test, the cooling down of the coils is expected to start in November 1999. Four weeks will be necessary to bring the three coils down to 4K.

Items to be considered for inclusion in the ITER Newsletter should be submitted to B. Kouvchinnikov, ITER Office, IAEA, Wagramer .Strasse 5, P.O. Box 100, A-1400 Vienna, Austria, or Facsimile: +43 1 2633832, or e-mail: c.basaldella@iaea.org (phone +43 1 260026392).

Printed by the IAEA in Austria
December 1999

00-00057