# CONFERENCE PROGRAM

*Plenary Session I*

**PL-1** Twenty Years since the Discovery of High Temperature Superconductivity
*K. Kitazawa*
**PL-2** Progress of Plasma Experiments and Superconducting Technology in LHD
*O. Motojima*

*Oral Session SC Fusion Devices I*

**FD1-1** Toward Steady State Operation in Large Tokamaks : The Experience of Tore Supra Superconducting Magnet System
*J. L. Duchateau*
**FD1-2** Recent Progress in TRIAM-1M Experimental Studies
*K. N. Sato*



*Oral Session SC Fusion Devices IIa*

**FD2-1** Construction and Assembly of Wendelstein 7-X
*M. Wanner*
**FD2-2** The Recent Progress and Future Plan for EAST Tokamak
*J. G. Li*
**FD2-3** Status of the KSTAR Tokamak Construction
*J. S. Bak*
**FD2-4** Recent Progress in SST-1 Tokamak
*Y. C. Saxena*

*Oral Session SC Fusion Devices III*

**FD3-1** Critical Issues for ITER in the Design, Fabrication and Operation of the ITER Magnets
*N. Mitchell*
**FD3-2** Japanese Contributions to the Procurement of the ITER Superconducting Magnet
*K. Okuno*
**FD3-3** Influence of Toroidal Field on the Design of Magnet Systems for Future Fusion Reactors
*J. L. Duchateau*

*Oral Session Advanced Technologies*

**AT-1** Application of High Temperature Superconducting Coil for Internal Ring Devices
*Y. Ogawa*
**AT-2** The Levitated Dipole Experiment
*J. Minervini*
**AT-3** Development of DI-BSCCO Wires and their Applications
*J. Fujikami*
**AT-4** Long Pulse Operation of 170GHz ITER Gyrotron by Beam Current Control
*A. Kasugai*



# Poster Session Program

PS1-01 Bi2212 HTS Bulk Tubes Prepared by the Diffusion Process for Current Lead Application *J. Ohkubo*
PS1-02 Mechanical Properties of Bi-2212 Superconducting Bulk with Alumina Fiber Reinforcement *H. Tamura*
PS1-03 Optimization of a Conduction-Cooled LTS Pulse Coil
*A. Kawagoe*
PS1-04 Electromagnetic Behavior of HTS Coils in Persistent Current Operations *T. Hemmi*
PS1-05 Improvement in the Critical Current Density by Two Orders of Magnitude for $MgB_2$ Tapes using an Aluminum Sheath
*T. Nakane*
PS1-06 The Low Activation Superconducting Materials Based on the Requirement for an Advanced Fusion Reactor Application
*Y. Hishinuma*
PS1-07 High Strength $Nb_3Sn$ Strands Applying the Prebending Effect
*K. Watanabe*
PS1-08 Irradiation Effect of D-T Neutron on Superconducting Magnet Materials for Fusion Application *A. Nishimura*
PS1-09 Tensile and Damage Behavior of Plain Weave Glass/Epoxy Composites at Cryogenic Temperatures *S. Takano*
PS1-10 Stability Measurements of LTS/HTS Hybrid Superconductors
*G. Bansal*
PS1-11 Stability Test of Cable-In-Conduit-Conductors for SST-1
*G. Bansal*
PS1-12 Test and Analysis of Current Unbalance Inside the ASTEX Multi-strand CICC Coil *A. Di Zenobio*
PS1-13 Comparison of Avalanche-like Quenches induced Current Limits between NbTi and $Nb_3Sn$ Cable in Conduit Conductors
*K. Seo*
PS1-14 Coupling Loss with Long Time Constants due to Large Displacement of Strands in Large CIC Conductor
*T. Yagai*
PS1-15 Different Loss Contributions in Superconducting Magnets Caused by Additional Change of the Magnetic Field
*S. Takács*