

Plenary Session I

L. Dudek

Towards ITER Construction	1
<i>R. Aymar</i>	

Direct Drive Laser Inertial Fusion Energy*J. Sethian (Presentation available on the 19th SOFE CD)***U.S. Fusion Energy Sciences Program***M. Roberts (Presentation available on the 19th SOFE CD)***Plenary Session II**

S. Milora

FIRE, Exploring the Frontiers of Burning Plasma Science*D. Meade (Presentation available on the 19th SOFE CD)***Impact of Advanced Physics and Technology on the Attractiveness of Tokamak Fusion**

Power Plants	10
---------------------------	-----------

*F. Najmabadi and the ARIES Team***Poster Session I**

C. Gentile

The Alcator C-Mod Lower Hybrid Current Drive Experiment Transmitter and Power

System	16
---------------------	-----------

*M. Grimes; D. Gwinn; R. Parker; D. Terry; J. Alex***Design and Engineering of the Alcator C-MOD Lower Hybrid Current Drive System**

20

*G. D. Loeser; J. Rushinski; S. Bernabei; J.C. Hosea; J.R. Wilson; B. Beck; R. Parker***The Alcator C-Mod Lower Hybrid Current Drive Experiment Low Power Microwave and**

Active Control System	23
------------------------------------	-----------

*D. Terry; W. Burke; M. Grimes; D. Gwinn; J. Irby; N. Kambuchev; R. Parker; P. Woskov***Disruption Load Calculations using ANSYS Transient Electromagnetic Simulations for the**

Alcator C-Mod Antennas	27
-------------------------------------	-----------

*P. H. Titus***Inner Divertor Detailed Design and Manufacturing**

31

*J. Zaks; M. DeMaria; B. LaBombard; R. Granetz; E. Fitzgerald; H. Savelli; P. Stahle***Poster Session I**

(Continued)

The DIII-D Neutral Beam Supervisory Control and Data Acquisition Workstation Upgrade....

36

K. H. Doan; J. L. Busath; D.H. Kellman

Effects of Operating parameters on the beam species of multi-aperture neutral beam ion sources	40
<i>R. Hong; H. K. Chiu</i>	
Anita-2000 Activation Code Package: Clearance Assessment of ITER Activated Materials.....	44
<i>G. Cambi; D. G. Cepraga; M. Frisoni; L. Manzana; F. Carloni; M.L. Fiandri</i>	
Post-Test Calculations with ISAS-ITER System for ICE Experiments.....	48
<i>M. T. Porfiri; P. Meloni</i>	
Seismic Analysis of the KSTAR Tokamak	52
<i>H.J. Ahn; Y. W. Lee; Y. C. Kim; J. S. Bak.; G. S. Lee</i>	
Influence of Accelerator Grid Misalignment on Multi-Aperture Particle Beam Properties.....	56
<i>D. Ciric; J. J. Milnes; E. Surrey</i>	
Operating Limits of the Upgraded JET Neutral Beam Injector from Duct Re-Ionisation and Beam Shine-Through.....	60
<i>S. Cox; A. Bickley; T.T.C. Jones; J. Milnes</i>	
Properties of the JET 130kV/60A Positive Ion Neutral Injector.....	64
<i>E. Surrey; D. Ciric; D. J. Godden; B. Crowley</i>	
Neutral Beam Injection Requirements and Design Issues for the National Compact Stellarator Experiment	68
<i>H. W. Kugel; G. H. Neilson; W. Reiersen; M. Zarnstorff; M. Cole</i>	
NCSX Electrical Power Systems.....	72
<i>S. Ramakrishnan; C. Neumeyer; R. Hatcher; R. Marsala; E. Baker; H. Schneider; W. Reiersen</i>	
Compact Flexible Pellet Injection System for Plasma Fueling Experiments	76
<i>S. K. Combs; C. R. Foust; L. R. Baylor; M. Cole; D. T. Fehling; P. W. Fisher; M. J. Gouge; R. A. Rasmussen; D. O. Sparks; J. B. Wilgen</i>	
Synchronous Rectifier Using Power-Mosfet for High Current AC/DC Converter System	80
<i>T. Matsukawa; M. Shioyama; J. Nomura; C. Neumeyer; S. Tsuji-Ito; R. Shimada</i>	
 Poster Session I	
 (Continued)	
Anode Modulator Power Supplies for Continuous Duty 500 KW Klystrons (TH2103D) & 200 KW Gyrotron (VGA8000A19).....	84
<i>Kushwah; B. Pal; Y. S. S. Srinivas; K. Sathyanarayana; P. L. Khilar; P. Shah; S. V. Kulkarni; A. R. Makwana; B. R. Kadia; K. M. Parmar; S. Dani; R. Singh; K. G. Parmar; D. Bora and the RF Group</i>	
Electron Cyclotron Resonance Frequency System on Tokamak Aditya	88
<i>B. K. Shukla; K. Sathyanarayana; D. Bora; S. Rajashree; K. Bhattacharya; B. Pal; S.V. Kulkarni; S. Gangopadhyay; Y.S.S. Srinivas; P.L. Khilar; M. Kushwah; R.G. Trivedi; D. Rathi; B.R. Kadia; A. Patel; C. Virani; P. Harsida; H.M. Jadav; K.G. Parmar; P. Shah; A.R. Makwana; S. Dani; P. Kirit; M. Harsha; J. Soni and the RF Group</i>	
Results of 10-Joule Wire-Burn Test Performed on 70 kV Rail-Gap Crowbar Protection System for High Power Klystrons and Gyrotron.....	91
<i>S. S. Srinivas; M. Kushwah; S. V. Kulkarni; K. Sathyanarayana; P. L. Khilar; B. Pal; P.</i>	

Shah; A. K. Makwana; B. R. Kadia; K. M. Parmar; S. Dani; R. Singh; K. G. Parmar; D. Bora and the RF Group

Models for Automated Tube Performance Calculations.....	95
<i>C. Brunkhorst</i>	
A Multi-Channel Phase Detector Using Programmable Logic Devices.....	99
<i>N. Greenough; S. DePasquale; D. Lafrance</i>	
Mechanical Design of the ICRH Antenna for JET-EP.....	103
<i>R. C. Walton; G. Agarici; G. Amarante; W. Baity; B. Beaumont; S. Brémond; F. Durodié; J. Fanthome; R. Goulding; J. Heikkinen; A. Kaye; R. Koch; P. Lamalle; G. Mazzone; J.M. Noterdaeme; V. Riccardo; M. Roccella; C. Sporchia; P. Testoni; P. Tigwell; K. Vulliez</i>	
Safety and Environmental Considerations in the Selection of FusionPower Plant Design Options	107
<i>N. P. Taylor</i>	
Industrial Hygiene Concerns during the Decontamination and Decommissioning of the Tokamak Fusion Test Reactor.....	111
<i>M. E. Lumia; C. A. Gentile</i>	
Temperature Excursions in Bounding Accidents Using Finite Element Analysis for a Water-Cooled Lithium Lead Blanket Power Plant.....	114
<i>P. J. Karditsas</i>	

[1頁](#) [2頁](#) [3頁](#) [4頁](#)