



27th IEEE Symposium on Fusion Engineering

June 4–8, 2017

Marriott Shanghai City Center
Shanghai, China

Sponsors:

IEEE Nuclear and Plasma Sciences Society
Institute of Plasma Physics, Chinese Academy of Sciences
IEEE Shanghai Branch



SOFE-2017 Mini-courses, 4 June 2017

Inertial Fusion Energy

- Prof. Manuel Perlado, *Polytechnic University Madrid*

Plasma-Material Interactions: Fundamentals and Applications

- Prof. Daniel Andruczyk, *University of Illinois*
- Prof. Davide Curreli, *University of Illinois*

Stellarator Physics and Engineering

- Dr. Hutch Neilson, *Princeton Plasma Physics Laboratory*
- Prof. Hans-Stephan Bosch, *Max Planck Institute for Plasma Physics*

Plasma Diagnostics

- Dr. Robert Kaita, *Princeton Plasma Physics Laboratory*
- Dr. Brent Stratton, *Princeton Plasma Physics Laboratory*

Radiation Effects on Electronics in the Fusion Nuclear Environment

- Dr. Martin Dentan, *ITER Organization*

Technical Program, 5-8 June 2017

- Experimental devices
- Plasma control
- Diagnostics
- Instrumentation
- Magnets
- Divertors and PFCs
- PMI and plasma edge
- Heating and current drive
- Next step devices
- DEMO and power plants
- Project management
- Systems engineering
- Materials and fabrication
- Safety and environment
- Operations
- Maintenance
- Power supplies
- Disruption mitigation
- Blankets
- Tritium breeding
- Tritium extraction
- Neutronics
- Multiphysics analysis
- Fueling and exhaust
- Vacuum pumping
- Stellarators
- Inertial fusion engineering

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