

**Status of abstracts submitted by NSTX team to the 19th International Conference  
on Plasma Surface Interactions to be held in San Diego, CA in May 2010**

1. H. W. Kugel, ORAL - NSTX Plasma Response to Lithium Coated Divertor
2. R. J. Goldston, POSTER - Downstream Heat Flux Profile vs. Midplane  $T$  Profile in Tokamaks
3. S. F. Paul, REJECTED - Dependence of impurity accumulation on  $I_p$  and the outer gap in the presence of lithium deposition in NSTX
4. J. Canik, POSTER - Measurements and 2-D Modeling of Particle Balance, Recycling, and Core Fueling in Discharges with Lithium-coated PFCs in NSTX
5. R. Raman, POSTER - Reduction of Low-Z Impurities During Plasma Start-up Through The Application Of Large Surface Area Biased Electrode Discharges
6. D. Stotler, POSTER - Simulations of Diffusive Lithium Evaporation onto the NSTX Vessel Walls
7. M. Jaworski, POSTER - Macroscopic Motion of Liquid Metal Plasma Facing Components in a Diverted Plasma
8. V. A. Soukhanovskii, POSTER - "Snowflake" divertor configuration in NSTX
9. D. K. Mansfield, POSTER - Improved H-mode Performance by Injection of Lithium Aerosol into the NSTX Scrape-Off Layer in Real Time
10. C. H. Skinner, POSTER - Deuterium Retention in NSTX with Lithium Conditioning
11. R. Maqueda, POSTER - Poloidal Distribution of Intermittent Events (Blobs) in the Scrape-off Layer and Divertor of the National Spherical Torus Experiment (NSTX)
12. F. Kelly, Observation of Harmonic Oscillations and ELMs in NSTX
13. F. Scotti, POSTER - Observation and modeling of inner divertor re-attachment in discharges with lithium coatings in NSTX
14. J.-W. Ahn, ORAL - Characteristics of heat and particle flux deposition in 3-D field applied Hmode plasmas in NSTX
15. C. N. Taylor, COMBINED W/ ALLAIN - Surface chemistry and physics of D-retention in lithiated graphite
16. J. P. Allain, POSTER - In-situ plasma-material interface (PMI) probe to study lithium conditioning mechanisms in NSTX plasmas
17. B. Heim, COMBINED W/ ALLAIN - Post-mortem surface chemistry and passivation measurements of lithium coated ATJ graphite NSTX divertor tiles
18. J. R. Myra, POSTER - Turbulent Transport and the Scrape-off-Layer Width
19. J. Nichols, POSTER - 3-D reconstruction of pre-characterized lithium dust particle trajectories in NSTX
20. T. K. Gray, COMBINED W/ MAINGI - Divertor Heat Flux Scalings in the National Spherical Torus Experiment with and without Lithium Coatings
21. R. Maingi, POSTER - Dependence of the divertor heat flux profiles on the plasma boundary shape in the National Spherical Torus Experiment