

**Theoretical Research in Plasma and Fusion Science  
Notice DE-FG02-06ER06-07  
FY 2007 Awards**

Number of Proposals Received: 28  
 Number of Proposals Funded: 18  
 Total FY 2007 Funding: \$5,143K

<b>Principal Investigator</b>	<b>Organization</b>	<b>Title</b>
Boozer, Allen	Columbia University	Stellarator Theory
Braams, Bastiaan	Emory University	Reaction Dynamics and Spectroscopy of Hydrocarbons in Plasma
Cary, John	University of Colorado	Analysis and Direct Numerical Simulation of RF Heating Processes and Advanced Computational Methods For Fusion Applications
Harvey, Robert	CompX	Advanced Development of the CQL3D Fokker-Planck Code and Applications of GENRAY Ray Tracing Code
Hassam, Adil	University of Maryland	Theoretical Considerations for Centrifugally Confined Plasmas
Hegna, Chris	University of Wisconsin	Nonlinear and Nonideal MHD
Held, Eric	Utah State University	Time-Dependent Parallel Closures for Plasma Fluid Equations
Krasheninnikov, Sergei	UCSD	Turbulence, Macroscopic Transport, and Plasma-Surface Interactions in the Edge, SOL and Divertor Plasmas
Kritz, Arnold	Lehigh University	Predictive Integrated Modeling of Heated Tokamak Plasmas
Lin, Zhihong	University of California, Irvine	Multiple-Time-Scale Gyrokinetic Particle Simulation with Collisions
Newman, David	University of Alaska, Fairbanks	Investigations of the Dynamics of Self Consistent Models for Turbulent Transport and Implications for Transport Barrier Formation and Evolution
Prager, Stewart	University of Wisconsin	Theoretical Studies Related to Reversed Field Pinch Research
Rogers, Barrett	Dartmouth College	Gyrokinetic Simulations of Turbulent Transport in Fusion Plasmas
Santarius, John	University of Wisconsin	Atomic Physics Effects on Convergent, Child-Langmuir Ion Flow Between Nearly Transparent Electrodes
Shaing, Ker-Chung	University of Wisconsin	Neoclassical Theory and its Applications
Vahala, Linda	Old Dominion University	Topics in Plasma Physics
Van Dam, James	The University of Texas at Austin	Establishment of an Institute for Fusion Studies
Weitzner, Harold	New York University	Plasma Properties (Task III) Advanced Toroidal Theory (Task VII)