

# DIII-D Oral Presentations in Many Sessions of the Conference

Max Fenstermacher	Mon AM	DIII-D Research Advancing the Physics Basis for Optimizing the Tokamak Approach to Fusion Energy	OV/1-3
Gary Staebler	Mon PM	Advances in prediction of tokamak experiments with theory-based models	OV/2-5
Xi Chen	Tues AM	Doubling the Efficiency of Off-axis Current Drive Using Reactor-relevant 'Top Launch ECCD' on the DIII-D Tokamak	EX/1-1
Siye Ding	Tues AM	A Low Plasma Current Approach (~ 8 MA) for ITER's Q=10 Goal	EX/1-3R
Qiming Hu	Tues EVE	Role of resonant magnetic field penetration in ELM suppression and density pump-out in DIII-D ITER-like plasmas	TH/2-1
Kshitish Barada	Weds AM	New understanding of multi-scale/multi-field pedestal turbulence, transport, and gradient behavior during type-I ELMs on the DIII-D tokamak	EX/2-1
Theresa Wilks	Wed AM	Development of an integrated core-edge reactor scenario using the Super H-mode	EX/2-6
Jong-kyu Park	Thur AM	Quasi-symmetric Error Field Correction in Tokamaks	EX/4-3
Emily Belli	Thur EVE	Strong reversal of simple isotope scaling laws in tokamak edge turbulence	TH/5-1
Paz-Soldan	Fri AM	A novel path to runaway electron mitigation via current-driven kink instability	EX/5-2Rb
Daisuke Shiraki	Fri AM	DIII-D and International Research Towards Extrapolating Shattered Pellet Injection Performance to ITER	EX/5-2Ra
Jayson Barr	Fri AM	Development and experimental qualification of novel disruption prevention techniques on DIII-D	EX/5-4
Alessandro Marinoni	Fri PM	Diverted plasmas at negative triangularity on DIII-D: the benefit of H-mode grade confinement without the liability of an edge pedestal	EX/6-6Ra
Liang Wang	Fri EVE	Achievements of Actively Controlled Divertor Detachment Compatible with Sustained High Confinement Core in DIII-D and EAST	EX/7-1
Huiqian Wang	Fri EVE	The effect of synergy between divertor geometry and drifts on divertor power dissipation in the DIII-D small angle slot divertor	EX/7-6
Cami Collins	Sat AM	Improving Fast-Ion Confinement and Performance by Reducing Alfvén Eigenmodes in the $q_{min}>2$ , Steady-State Scenario	EX/8-2
Nathan Howard	Sat AM	Multi-Machine Determination of SOL-to-Core Multi-Z Impurity Transport in Advanced Confinement Regimes	PD/1-1



# DIII-D Poster Presentations on Tues, Fri and Sat

Abrams	Tues AM	Advances in understanding high-Z sourcing, migration, and transport on DIII-D from L-mode to high-performance regimes	EX/P1-1
Mordijck	Tues AM	Impact of opacity in determining the pedestal density structure on DIII-D and C-Mod	EX/P1-3
Logan	Tues AM	Multi-machine Scalings of Thresholds for n=1 and n=2 Error Field Correction	EX/P1-4
La Haye	Tues AM	Disruptive Neoclassical Tearing Mode Seeding in DIII-D with Implications for ITER	EX/P1-5
J Chen	Tues AM	Internal measurement of magnetic turbulence in the pedestal of ELMy H-mode DIII-D plasmas	EX/P1-6
Pajares Martinez	Tues AM	Integrated Control of Individual Scalars to Regulate Profiles and Improve MHD Stability in Tokamaks	EX/P1-7
Garofalo	Tues AM	The energy confinement evolution at very high edge pedestal in super H-mode experiments	EX/P1-8
Okabayashi	Tues AM	Slowly Rotating 3D Field for Locked Mode Avoidance and H-mode Recovery in DIII-D	EX/P1-9
Van Compernelle	Tues AM	The high-power helicon program at DIII-D: gearing up for first experiments	EX/P1-10
Grierson	Tues AM	Testing the DIII-D Co/Counter Off-axis Neutral Beam Injected Power and Ability to Balance Injected Torque	EX/P1-11
Heidbrink	Tues AM	High-energy fast ions drive BAEs unstable but not BAAEs	EX/P1-12
Haskey	Tues AM	Main-ion Thermal Transport in High Performance DIII-D Edge Transport Barriers	EX/P1-13
Leonard	Tues AM	MHD stability constraints on divertor heat flux width in DIII-D	EX/P1-14
Effenberg	Tues AM	Enhanced divertor power exhaust through injection of low-Z powders in DIII-D	EX/P1-15
Lunsford	Tues AM	The impact of low-z powder injection on intrinsic impurities in DIII-D	EX/P1-16
Wilcox	Tues AM	Pellet ELM Triggering with Low Collisionality, Peeling-Limited Pedestals in DIII-D	EX/P1-17
Samuell	Tues AM	Understanding Detachment Scenarios and Power Exhaust Through 2D Measurement of Critical Physics Parameters on DIII-D	EX/P1-18
Yan	Tues AM	Turbulence flow dynamics and mode structure impacts on the L-H transition	EX/P1-19
Crocker	Tues AM	Novel internal measurements and analysis of ion cyclotron freq range fast-ion driven (FI) modes advance predictive capability for FI transport in burning plasmas	EX/P1-20



# DIII-D Poster Presentations on Tues, Weds and Fri

Shafer	Tues AM	Limits of RMP ELM Suppression in Double Null	EX/P1-21
Eldon	Tues AM	Divertor detachment and radiated power control developments on DIII-D and EAST	EX/P1-22
Rea	Tues AM	Disruption Prevention via Interpretable Data-Driven Algorithms on DIII-D and EAST	EX/P1-25
Petty	Tues AM	New Regime for High-Beta Hybrid Using Off-Axis Current Drive on DIII-D	EX/P1-26
Orlov	Tues AM	Nonlinear MHD modeling of divertor striations in DIII-D RMP ELM suppressed discharges	EX/P1-27
Casali	Tues AM	Improved impurity retention and pedestal performance in DIII-D closed divertor	EX/P1-28
Schmitz	Tues AM	Reducing the L-H Transition Power Threshold via Neoclassical Toroidal Viscosity, Edge Rotation Reversals, and Shape Changes	EX/P1-29
JM Park	Tues AM	Off-axis Neutral Beam Current Drive for Advanced Tokamak	EX/P1-30
Banerjee	Tues AM	Correlation of pedestal fluctuations and inter-ELM pedestal recovery leading to reduced ELM frequency in ECH dominated discharges in DIII-D	EX/P1-23
Spong	Tues AM	Nonlinear dynamics and stability surveys of energetic particle instabilities	TH/P1-8
Beidler	Tues AM	Spatially Dependent Simulations and Model Validation of Runaway Electron Dissipation Via Impurity Injection in DIII-D and JET Using KORC	TH/P1-9
Victor	Tues PM	Global stability of elevated-q <sub>min</sub> , steady-state scenario plasmas on DIII-D	EX/P2-1
C Kim	Wed AM	Simulations and Validation of Disruption Mitigation and Projections to ITER's Disruption Mitigation System	TH/P3-16
Weisberg	Wed AM	Passive deconfinement of runaway electrons using an in-vessel helical coil	TH/P3-20
Guterl	Wed PM	Progress toward predictive modeling and in-situ monitoring of tungsten net erosion in tokamak divertor	TH/P4-2
Morosohk	Thur AM	Neural Network Model of the Multi-Mode Anomalous Transport Module	TH/P5-10
Y Liu	Thur PM	Towards prediction of ELM control by RMP in ITER based on linear and quasi-linear plasma response	TH/P6-3
J King	Thur PM	Integrating tokamak edge MHD transients modeling with transport	TH/P6-19
McClenaghan	Fri PM	Self-Consistent Integrated Modeling and Investigation of Density Fueling Needs on ITER and CFETR	TH/P8-23
Snyder	Fri PM	A Sustainable High Power Density (SHPD) Tokamak to Enable a Compact Fusion Pilot Plant	TH/P7-10

