



2013 Wisconsin Forum on Advanced Computing in Engineering ~ Poster Session Overview ~

Name	Title	Advisor	Current Standing
Sean Bauer	SPGrid: Sparsed Paged Grids for large-scale adaptive CFD simulations	Eftychios Sifakis	2 nd Year MSc
Shiguang Deng	Topological sensitivity methods for stiffening of plate structures	Krishnan Suresh	1 st Year PhD
Jian Gao	Modeling of Liquid Sprays and Thermal Mixing in Desuperheating Applications	Mario Trujillo	Employed at General Motors
Eelco Gehring	Numerical Simulation of Heat Transfer Mechanisms in Spray Cooling	Mario Trujillo	Employed at Shell (Holland)
Toby Heyn	On the Modeling, Simulation, and Visualization of Many-Body Dynamics Problems with Friction and Contact	Dan Negrut	5 th Year PhD
Anirudh Krishnakumar	Recovery of CAD models from topology optimization	Krishnan Suresh	4 th Year Undergraduate
Goldy Kumar	Structural analysis of multi-material objects	Vadim Shapiro	3 rd Year PhD
Steven Lewis	Numerical Simulation of Heat Transfer Mechanisms in Spray Cooling	Mario Trujillo	Employed at Caterpillar
Ang Li	SPIKE - An Implementation of a Recursive Divide-and-Conquer Parallel Strategy for Solving Large Systems of Linear Equations	Dan Negrut	3 rd Year PhD
Xingchen Liu	Random Heterogeneous Materials via Texture Synthesis	Vadim Shapiro	3 rd Year MS/PhD
Justin Madsen	HPC Terramechanics for Realtime Off-Road Vehicle Mobility Simulation	Dan Negrut	4 th Year PhD
Hammad Mazhar	Krylov Subspace Methods For Rigid Bodies With Compliant Contact And Cohesion	Dan Negrut	2 nd Year PhD
Dan Melanz	Flexible Multibody Dynamics with Contact and Bilateral Constraints on the GPU	Dan Negrut	1 st Year PhD
Amir Mirzendehtdel	Accurate finite element analysis over a tangled mesh	Krishnan Suresh	1 st Year MS/PhD
Nathan Mitchell	Grid-based discretization and parallel simulation of nonlinear models of biological soft-tissues	Eftychios Sifakis	3 rd Year PhD
Arman Pazouki	Direct Numerical Simulation of Fluid-Solid Interaction with Application to Particle Suspension	Dan Negrut	5 th Year PhD
Doug Ryddner	Modeling of Liquid Sprays and Thermal Mixing in Desuperheating Applications	Mario Trujillo	1 st Year PhD
Andrew Seidl	Computational Resources at the Wisconsin Applied Computing Center	Dan Negrut	3 rd Year PhD
Raj Setaluri	Multilevel numerical solution of incompressible 2D nonlinear membranes on Cartesian grids with embedded constraints	Eftychios Sifakis	2 nd Year Undergraduate
Vaidy Thiagarajan	FEA of Imprecise Geometric Models without repair	Vadim Shapiro	3 rd Year PhD
Praveen Yadav	GPU-friendly preconditioners for large-scale finite element analysis	Krishnan Suresh	3 rd Year PhD
Shaoqing Zhang	Recovery of CAD models from topology optimization	Krishnan Suresh	4 th Year Undergraduate
Simulation Based Engineering Lab	CHRONO Architecture	Dan Negrut	N/A