

**10th Symposium on Overset Composite Grids and Solution Technology
Monday 9/20/2010**

7:30	Registration and continental breakfast in Blg. 3		
	Main Ballroom	Showroom	Northwing Room
8:30-10:00	Overflow 2.2 Tutorial - Part 1 <i>R. Nichols, P. Buning</i>	Suggar/DiRTlib Tutorial <i>R. Noack</i>	Pegasus5 Tutorial <i>S. Rogers</i>
10:00-10:30	Break		
10:30-11:00	Overflow 2.2 Tutorial - Part 2 <i>R. Nichols, P. Buning</i>	Analysis and Visualization Techniques for Overset in-situ Simulations <i>K. Colburn (CEI)</i>	
11:00-11:30		Parallel Performance of CFD Applications on Silicon Graphics SMP and DMP Compute Systems <i>M. Kremenetsky (SGI)</i>	
11:30-12:00		Intel's HPC Technology Outlook <i>Thomas Metzger (Intel)</i>	
12:00-2:00	NAS Tour participants: NASA bus to Blg. 258, followed by lunch back in Blg. 3 All others: lunch in Blg. 3		
2:00-3:30	Overflow 2.2 Tutorial - Part 3 <i>R. Nichols, P. Buning</i>	Chimera Grid Tools Tutorial <i>W. Chan, S. Pandya</i>	Overture Tutorial <i>J. Banks, K. Chand, W. Henshaw</i>
3:30-4:00	Break		
4:00-4:30	Overflow 2.2 Tutorial - Part 4 <i>R. Nichols, P. Buning</i>	Active Archive - Managing BIG Data in an Exascale Compute Environment <i>J. McKinley (Spectra Logic)</i>	
4:30-5:00		Birds of a Feather with the Tecplot Product Management Team <i>T. Chan (Tecplot)</i>	
5:00-5:30		Productive and Automated CFD Post-Processing for Overset Grids <i>E. Duque (Intelligent Light)</i>	
5:30-7:00	Reception at the Ames Exploration Center		

**10th Symposium on Overset Composite Grids and Solution Technology
Tuesday 9/21/2010 (Main Ballroom)**

7:30	Registration and continental breakfast in Blg. 3
7:45-8:00	Welcome <i>W. M. Chan</i>
	Opening Remarks <i>Eugene L. Tu, Director, Exploration Technology Directorate, NASA Ames</i>
8:00-9:00	Invited talk: Overflow Applications in Transonic Airplane Design Introduced by <i>P. G. Buning</i> <i>S. R. Chaney (Boeing)</i>
	Session 1.1. Grid Assembly Session Chair: R. W. Noack
9:00-9:30	Development of a Python Preprocessing Module for Chimera Assembly for CFD Applications <i>S. Peron, C. Benoit</i>
9:30-10:00	Robustness and Accuracy of Donor Search Algorithms on Partitioned Unstructured Grids <i>J. Sitaraman, B. Roget</i>
10:00-10:30	Break (Poster session)
	Session 1.2. Suggar and DiRTlib Development & Applications Session Chair: S. E. Sherer
10:30-11:00	Domain Decomposition for Overset Grid Assembly <i>R. W. Noack, D. A. Boger</i>
11:00-11:30	FoamedOver: A Dynamic Overset Grid Implementation in OpenFOAM <i>D. A. Boger, E. G. Paterson, R. W. Noack</i>
11:30-12:00	Implementation of an Overset Capability to CaMEL Aero Flow Solver and its Applications to Moving Bodies <i>E. Yilmaz, S. Aliabadi, J. Sahu, P. Collins</i>
12:00-1:00	Lunch - provided in Blg. 3 (Poster session)
	Session 1.3. Grid Generation Session Chair: W. D. Henshaw
1:00-1:30	Recent Developments in Chimera Grid Tools <i>W. M. Chan</i>
1:30-2:00	Towards Automation within Overgrid for Geometry Import and Surface Patch Definition <i>R. Haimes, J. F. Dannenhoffer</i>
2:00-2:30	Direct Generation of 3D Overset Grids from Solid Models <i>J. F. Dannenhoffer, R. Haimes</i>
2:30-3:00	Application of Strand Meshes to Complex Aerodynamics Flowfields <i>A. Katz</i>
3:00-3:30	Break (Poster session)
	Session 1.4. Overture & Applications Session Chair: A. M. Wissink
3:30-4:00	Recent Developments in Overture <i>W. D. Henshaw</i>
4:00-4:30	Numerical Methods for Solid Mechanics on Overlapping Grids <i>J. W. Banks, W. D. Henshaw, D. W. Schwendeman</i>
4:30-5:00	Towards the Direct Computation of the Aerodynamic Sound Generated by a Gate Valve in Nuclear Power Plants <i>F. Daude, J. Berland, P. Lafon, F. Crouzet, C. Bailly, W. D. Henshaw</i>
5:00-5:30	Implementing a Partition Algorithm for Fluid-Structure Interaction of Flexible Flapping Wings within Overture <i>D. J. Chandar, M. Damodaran</i>

**10th Symposium on Overset Composite Grids and Solution Technology
Wednesday 9/22/2010 (Main Ballroom)**

7:30	Registration and continental breakfast in Blg. 3	
8:00-9:00	Invited talk: Application of Overset Grid Methods to Wind Turbine Rotors <i>C. P. van Dam (University of California at Davis)</i>	Introduced by <i>S. A. Pandya</i>
	Session 2.1. Environmental Applications	Session Chair: <i>D. J. Vicker</i>
9:00-9:30	CgWind: A Composite Grid Simulation Tool for Wind Energy Applications <i>K. K. Chand, W. D. Henshaw</i>	
9:30-10:00	Chimera Grid Method for Incompressible Flows and its Applications in Actual Problems <i>H. Tang</i>	
10:00-10:30	Break	
	Session 2.2. Adaptive Cartesian Mesh	Session Chair: <i>R. L. Meakin</i>
10:30-11:00	A New Solution Adaption Capability for the OVERFLOW CFD Code <i>P. G. Buning</i>	
11:00-11:30	Unsteady Adaptive Mesh Refinement in the Helios Code <i>A. M. Wissink</i>	
11:30-12:00	Extension of the Numerical Schemes in an Overset Cartesian Grids Framework <i>C. Benoit, S. Peron, P. Raud</i>	
12:00-1:00	Lunch - provided in Blg. 3	
	Session 2.3. Applications in Subsonic, Supersonic & Hypersonic Flows	Session Chair: <i>S. E. Rogers</i>
1:00-1:30	Overset CFD Results from the 1st CFD High-Lift Prediction Workshop <i>J. P. Slotnick, A. J. Scalfani, T. H. Pulliam, J. C. Vassberg, H. C. Lee</i>	
1:30-2:00	Initial Study of Supersonic Retro-Propulsion Using Structured Overset Grids and OVERFLOW <i>D. G. Schauerhammer</i>	
2:00-2:30	Overset Techniques for Hypersonic Multibody Configurations with the DPLR Solver <i>A. J. Hyatt</i>	
2:30-3:00	Break	
	Session 2.4. Multi-Disciplinary and Solution Framework	Session Chair: <i>K. K. Chand</i>
3:00-3:30	Overset Grids for Multi-Disciplinary Simulations in Gas-Turbine Engines <i>R. L. Davis, J. F. Dannenhoffer, J. P. Clark</i>	
3:30-4:00	Novel Universal Ensemble - NUE <i>E. P. N. Duque</i>	
4:00-5:00	Open Forum	
5:00-6:00	Bus to Hiller	
6:00-9:00	Banquet at Hiller Aviation Museum and Student Poster Awards	

**10th Symposium on Overset Composite Grids and Solution Technology
Thursday 9/23/2010 (Main Ballroom)**

7:30	Registration and continental breakfast in Blg. 3
8:00-9:00	Invited talk: 20+ Years of Chimera Grid Development for the Space Shuttle Introduced by <i>W. M. Chan</i> <i>P. G. Buning (NASA Langley) and R. J. Gomez (NASA Johnson)</i>
	Session 3.1 Vortex Dominated Flows Session Chair: <i>J. P. Slotnick</i>
9:00-9:30	Overset-Mesh-Based Design Exploration for Vortex Generators on Boundary-Layer Ingesting Inlet <i>B. J. Lee, T. Kumano, M. S. Liou</i>
9:30-10:00	A Coupled Overset Vorticity Transport and Navier-Stokes Solver for Vortex-Dominated Flows <i>R. E. Harris, E. F. Sheta, R. W. Noack, V. Sankaran</i>
10:00-10:30	Break
	Session 3.2 Multi-Physics Modeling Session Chair: <i>E. Paterson</i>
10:30-11:00	Simulation of Fluid-Structure Interaction to Estimate Fatigue Life of Subsea Pipeline Spans <i>J. P. Pontaza</i>
11:00-11:30	Integration of Aero-Optics and Distributed Porosity Models within OVERFLOW <i>W. J. Coirier</i>
11:30-12:00	LAMP-OVERFLOW Coupling Approach for 3D Time-Accurate Water-Air Flow in Surface Effect Ship Design <i>J. C. Huan, S. Zhang, W. M. Lin</i>
12:00-1:00	Boxed lunch in Blg. 3 / NAS Tour - NASA bus to Blg. 258 with boxed lunch afterwards
	Session 3.3 Numerical Methods Session Chair: <i>R. H. Nichols</i>
1:00-1:30	Explicit and Implicit Coupling Strategies for Overset Grids <i>J. Brunswig, M. Manzke, T. Rung</i>
1:30-2:00	Multiple-Domain Finite Difference Solutions for Ocean Wave-Structure Interaction <i>R. W. Read, H. B. Bingham</i>
2:00-2:30	On Conservation Law Based Updating Schemes for Overset Mesh Communication <i>R. Tramel, S. Keeling, J. Benek</i>
2:30-3:00	Spectral FC Solvers on Overset Grids <i>N. Albin</i>
3:00-3:30	Break
	Session 3.4 Rotorcraft Applications Session Chair: <i>R. J. Gomez</i>
3:30-4:00	Investigation of Mixed Element Hybrid Overset Grid-Based CFD Methods for Rotorcraft and Ship Airwake Analysis <i>G. R. Whitehouse, A. H. Boschitsch, J. D. Keller</i>
4:00-4:30	Application of Overset Grid Methodology to Micro Rotor Simulation <i>V. K. Lakshminarayan, J. D. Baeder</i>
4:30-5:00	CFD/CSD Coupling and Trim of the SMART Rotor <i>A. C. B. Dimanlig, M. Potsdam, M. Fulton</i>