

Final Program

Systems of Conservation Laws and Related Topics:
A Conference Celebrating Burt Wendroff's 70-th Birthday
Los Alamos, March 8-10, 2000

March 8, 2000, Wednesday, 7.15 am – Badge Office Opens (Non-US Citizens Only)

All non-U.S. citizens who visit the Laboratory will be issued an identification badge which should be worn at all times while on Laboratory property. A passport is required to get a badge issued. On the first morning, please go to the Badge Office, prior to the opening of the conference. The Badge office opens at 7:15am and is located next to the Study Center (Meeting Location).

Registration Desk Opens 8.00 am

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March 8, 2000, Wednesday	March 9, 2000, Thursday	March 10, 2000, Friday
<p>First session 9:00-10:30 <i>chair M. Shashkov</i> 9:00 Bill Press, Alan Bishop Welcome 9:15-10:15 Stan Osher "From Lax-Wendroff to TVD, ENO, WENO, Level Set Methods, Ghost Fluids & Back Again" 10:15-11:00 James J. Quirk "A Rough Guide to The Darker Side of CFD – From Carbuncles to Kinked Mach Stems"</p>	<p>First session 9:00-10:30 <i>chair J. Dendy</i> 9:00-10:00 P. Lax "Positive Schemes for Symmetric and Symmetrizable Hyperbolic Systems of Conservation Laws in Several Space Variables" 10:00-10:30 Herb Kranzer "Nonstrictly Hyperbolic Conservation Laws and Singular Shocks"</p>	<p>First session 9:00-10:30 <i>chair L. Margolin</i> 9:00-10:00 Eitan Tadmor "Central Schemes: Convergence and Error Estimate for High Resolution Methods" 10:00-10:30 Bruce Stewart "The Virtues of Computational Toolkit for Dynamical Systems"</p>
11:00-11:15 Break	10:30-10:45 Break	10:30-10:45 Break
<p>Second session 11:00-12:30 <i>chair M. Shashkov</i> 11:15-12:15 Herb Keller "A Rank Theory of DAE's" 12:15-12:30 Open</p>	<p>Second session 10:45-12:15 <i>chair J. Dendy</i> 10:45-11:45 Jerry Brackbill "The Immersed boundary Method: Some successes and Challenges" 11:45-12:15 James M. Hyman "Minimizing Numerical Errors Introduced by Operator Splitting Methods"</p>	<p>Second session 10:45-12:15 <i>chair L. Margolin</i> 10:45-11:45 Heinz Kreiss "The Numerical Solution of Nonlinear Time Dependent Partial Differential Equations" 11:45-12:45 Norman Bleistein "High Frequency Imaging: from String Construction to Micro-Local Analysis"</p>
12:30-1:45 Lunch	12:15-1:30 Lunch	12:45-2:00 Lunch
<p>Third session 1:45-3:15 <i>chair B. Swartz</i> 1:45-2:30 W.J. Rider and L.G. Margolin "Entropy Consistency through Nonlinear Dispersion" 2:30-3:15 Seymour Parter "Preconditioning Spectral Collocation Methods for Elliptic Problems"</p>	<p>Third session 1:30-3:15 <i>chair M. Hyman</i> 1:30-2:00 Reuben Hersh "Arbitrary High Accuracy Approximations for a General Well-posed Linear Initial-value Problem" 2:00-3:00 Richard Liska "Composite Schemes for Conservation Laws"</p>	<p>Third session 2:00-3:45 <i>chair M. Hyman</i> 2:00-3:00 Bill Morton "Vorticity-preserving Lax-Wendroff Schemes on Arbitrary Meshes" 3:00-3:45 Mikhail Shashkov "Discrete Vector Analysis"</p>
3.15-3.30 Break	3:00-3:15 Break	3:45-4:00 Break
<p>Fourth session 3.30-5:00 <i>chair B. Swartz</i> 3.30-4.30 Vidar Thomee "Maximum-norm Estimates for Parabolic Finite Element Equations" 4.30-5:00 Blair Swartz "Ham Sandwiches in Interface Reconstruction"</p>	<p>Fourth session 3:15-5:15 <i>chair M. Hyman</i> 3:15-4:15 Randy LeVeque "Three-dimensional wave-propagation algorithms for hyperbolic systems: some upwinded and limited variants of Lax-Wendroff" 4:15-5:15 Joel Smoller "Cosmology with a shock-wave"</p>	<p>Fourth session 4:00-5:00 <i>chair M. Hyman</i> 4:00-4:45 Len Margolin and P.K. Smolarkiewicz "Large Eddy Simulations of Convective Boundary Layers Using Nonoscillatory Differencing" 4:45-5:00 Concluding Remarks</p>
	7.00 – BANQUET	