8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Experimental Investigation of the Heavy and Light Media Separation in the Rayleigh-Taylor Turbulence Zone at Different Atwood Numbers (E2) *Yu. A. Kucherenko, S. I. Balabin, R. I. Ardashova, A. P. Pylaev, O. E. Kozelkov, and V. D. Murzakov* *(Russian Federal Nuclear Center - VNIITF)*	Modes' Interaction on Nonlinear Stage of Richtmyer-Meshkov Instability Evolution (C1) *V. I. Anisimov and A. V. Polionov* *(Russian Federal Nuclear Center-VNIITF)*	Nonlinear Asymptotic Solutions to RT and RM Problems for Fluids with Close Densities (T2) *S. I. Abarzhi* *(State University of New York at Stony Brook)*
Experimental Investigation into Influence of Stabilizing Properties of Transitional Layers Upon the Turbulent Mixing Evolution (E3) *Yu. A. Kucherenko, S. I. Balabin, R. I. Ardashova, O. E. Kozelkov, A. V. Dulov, and I. A. Romanov* *(Russian Federal Nuclear Center - VNIITF)*	Application of kE-Model for the Description of an Atmospheric Surface Layer (C2) *M. G. Anuchin, V. E. Neuvazhayev, and I. E. Parshukov* *(Russian Federal Nuclear Center-VNIITF)*	Turbulent Mixing in RTI as Order-Disorder Process (T3) *S. I. Abarzhi* *(State University of New York at Stony Brook)*
Mixing Between Two Compressing Cylinders (E5) *S. H. Batha, K. W. Parker, C. W. Barnes, A. M. Dunne, N. E. Lanier, G. R. Magelssen, T. J. Murphy, S. Rothman, J. M. Scott, and D. Youngs* *(Los Alamos National Laboratory and Atomic Weapons Establishment)*	Computational Modeling of Low-Mach-Number High-Atwood-Number Turbulent Mixing (C4) *Wm. T. Ashurst and A. R. Kerstein* *(Sandia National Laboratories)*	A New Turbulent Two-Fluid RANS Model for KH, RT, and RM Mixing Layers (T4) *P. Bailly and A. Llor* *(Commissariat à l'Energie Atomique)*

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Development of a Method for Studying the Interaction between Shock Wave and a Flame Front (E6) *M. Bliznetsov, V. Dudin, S. Gerasimov, L. Houas, G. Jourdan, and A. Logvinov (Russian Federal Nuclear Center - VNIIEF, SarPTI, IUSTI/CNRS)*	Numerical Simulation of Mode Coupling in Laser-Driven Rayleigh-Taylor Instability Experiments (C9) *R. Darlington and K. Budil (Lawrence Livermore National Laboratory)*	Super-Exponential Rayleigh-Taylor Flow (T5) *R. E. Breidenthal (University of Washington)*
Design of Flyer-Plate-Driven Compressible Turbulent Mix Experiments (E9) *R. P. Drake (University of Michigan)*	3D Computation for Surface Perturbation Evolution of Plasma Cloud During its Expansion in Magnetic Field (C14) *E. S. Gavrilova, E. V. Gubkov, V. A. Zhmailo, and Yu. V. Yanilkin (Russian Federal Nuclear Center - VNIIEF)*	A General Buoyancy-Drag Model for the Evolution of the Rayleigh-Taylor and Richtmyer-Meshkov Instabilities (T11) *Y. Elbaz, Y. Srebro, O. Sadot, and D. Shvarts (Ben Gurion University and Nuclear Research Center)*
Growth of Perturbations on Metals Interface at Oblique Collision with Supersonic Velocity of Contact Point Motion (E11) *O. B. Drennov, A. L. Mikhaylov, P. N. Nizovtsev, and V. A. Raevskii (Russian Federal Nuclear Center - VNIIEF)*	Implementation of a Turbulent Mix Model in a 2D ALE Code (C17) *B. Grieves (Atomic Weapons Establishment)*	Stability of Diverging Shock Waves (T15) *V. M. Ktitorov (Russian Federal Nuclear Center - VNIIEF)*
From Linear to Turbulent Stages of the Richtmyer-Meshkov Instability Development in a Large Cross Section Shock Tube (E17) *L. Houas, G. Jourdan , E. E. Meshkov, and L. Schwaederlé (Université de Provence and Russian Federal Nuclear Center - VNIIEF)*	Error Estimation for Strong Shock Hydrodynamics (C18) *J. W. Grove (Los Alamos National Laboratory)*	Stability of Reflected From the Center Self-Similar Converging Shock Wave (T16) *V. M. Ktitorov (Russian Federal Nuclear Center - VNIIEF)*

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
RFNC-VNIITF Multifunctional Shock Tube to Investigate the Evolution of Instabilities in Nonstationary Gas Dynamic Flows (E20) *Yu. A. Kucherenko, O. E. Shestachenko, S. I. Balabin, and A. P. Pylaev* *(Russian Federal Nuclear Center - VNIITF)*	Localization and Spreading of Interfaces (Contact Discontinuities) in PPM and WENO Simulations of the Inviscid Compressible Euler Equations (C20) *Y. Gupta, N. J. Zabusky, R. Samtaney, and Y. Gulak* *(Rutgers, State University of New Jersey)*	Using a Turbulence Transport Approach to Study Shocks Through Polycrystalline Metal (T17) *R. R. Linn and F. H. Harlow* *(Los Alamos National Laboratory)*
Planar Laser Sheet Visualisation and Laser Doppler Velocity Measurements in Shock-Induced Turbulent Mixing Zones (E21) *A. Lassis, P. Montlaurent, C. Rayer, and J.-F. Haas* *(Commissariat à l'Energie Atomique)*	Update on Instability Modeling for the NIF Ignition Targets (C22) *S. W. Haan, T. Dittrich, S. Hatchett, D. Hinkel, M. Marinak, D. Munro, O. Jones, S. Pollaine, and L. Suter* *(Lawrence Livermore National Laboratory)*	Evolution of Arbitrary Perturbations in the Richtmyer-Meshkov Instability (T20) *K. O. Mikaelian* *(Lawrence Livermore National Laboratory)*
Hydrodynamic Instabilities at a Shock Accelerated Bubble Gas-Gas Interface (E22) *G. Layes, G. Jourdan, P. Roualdes, and L. Houas* *(IUSTI and Centre d'Etudes de Gramat)*	Pillars of Creation (C23) *J. O. Kane, D. D. Ryutov, B. A. Remington, S. G. Glendinning, J. Nash, M. Pound, and D. Arnett* *(Lawrence Livermore National Laboratory, University of Maryland, and University of Arizona)*	Statistical Mechanics Large Scale Model for the Evolution of the Multi-Mode Kelvin Helmholtz Instability (T22) *A. Rikanati, U. Alon, and D. Shvarts* *(Nuclear Research Center, Ben-Gurion University, and Weizmann Institute of Science)*
Experimental and Numerical Study of Shock Wave-Bubble Interaction (E23) *K. Levy, O. Sadot, D. Oron, Y. Srebro, Y. Elbaz, A. Josef-Hai, G. Ben-Dor, and D. Shvarts* *(Ben-Gurion University and Nuclear Research Center, Negev)*	Computational Modeling of Two-Shell Cylindrical Implosions with Mix (C28) *K. W. Parker, A. M. Dunne, S. Rothman, D. Youngs, C. Barnes, S. H. Batha, N. E. Lanier, G. R. Magelssen, T. J. Murphy, and J. M. Scott* *(Atomic Weapons Establishment and Los Alamos National Laboratory)*	Compressible MHD Turbulence in Strongly Radiating Molecular Clouds in Astrophysics (T25) *D. D. Ryutov and B. A. Remington* *(Lawrence Livermore National Laboratory)*

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Laser-Driven Near Isentropic Compression of an Aluminum Flyer Plate (E24) *K. T. Lorenz, D. Kalantar, J. Edwards, J. D. Colvin, and B. Remington* *(Lawrence Livermore National Laboratory)*	Influence of Turbulent Mixing Zone on Growth of Local Perturbation in Environments of Rayleigh-Taylor Instability (Numerical Simulation) (C30) *V. A. Raevski, A. N. Sinitsina, and Yu. V. Yanilkin* *(Russian Federal Nuclear Center - VNIIEF)*	Single-Velocity, Multi-Component Turbulent Transport Models for Interfacial Instability-Driven Flows (T26) *O. Schilling* *(Lawrence Livermore National Laboratory)*
Single-Mode Incompressible Richtmyer-Meshkov Instability Experiments (E26) *C. E. Niederhaus and J. W. Jacobs* *(NASA Glenn and University of Arizona)*	A Statistical Comparison of Gas Cylinder Experiments with Their Simulation (C31) *W. J. Rider, J. R. Kamm, and C. A. Zoldi* *(Los Alamos National Laboratory)*	Analytic Nonlinear Growth of a Single-Mode Richtmyer-Meshkov Instability (T31) *M. Vandenboomgaerde* *(Commissariat à l'Energie Atomique)*
Modeling Laser Material Strength Experiments (E29) *S. Pollaine, D. Kalantar, B. Remington, J. Belak, J. D. Colvin, J. Edwards, R. Minich, K. O. Mikaelian, K. T. Lorenz, S. V. Weber, L. G. Wiley, D. Paisley, A. Hauer, J. S. Wark, A. Loveridge, A. M. Allen, T. R. Boehly, and M. A. Meyers* *(Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Oxford University, University of Rochester, and University of California, San Diego)*	A Mix-Model for One-Dimensional Simulations of Laser-Driven Implosion Experiments (C36) *D. Souffland and F. Renaud* *(Commissariat à l'Energie Atomique)*	Pattern Detection, Compression and Denoising of RT Mix Data Using Discrete Wavelet Transform (T39) *B. B. Afeyan, P. Ramaprabhu, and M. J. Andrews* *(PolyMath Research Incorporated and Texas A & M University)*

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Experiments and Simulations of Instabilities in a Shock-Accelerated Gas Cylinder (E30) *K. Prestridge, C. A. Zoldi, P. Vorobieff, P. M. Rightley, and R. F. Benjamin* *(Los Alamos National Laboratory, State University New York, Stony Brook, and University of New Mexico)*	Turbulent Diffusion in Solar Type Star (C39) *N. Toqué* *(University of Montreal)*	
Experimental Study of the Interaction of a Strong Shock with a Spherical Density Inhomogeneity (E34) *H. F. Robey, T. S. Perry, R. I. Klein, J. A. Greenough, J. O. Kane, and T. R. Boehly* *(Lawrence Livermore National Laboratory, University of California, Berkeley, Rochester University)*	Recent Computational Simulations of Rayleigh-Taylor Mix Layer Growth with a Multi-Fluid Model (C40) *E. Vold* *(Los Alamos National Laboratory)*	
Turbulent Transition in a High Reynolds Number, Rayleigh-Taylor Unstable Plasma Flow (E35) *H. F. Robey, Y. K. Zhou, A. C. Buckingham, P. Keiter, B. A. Remington, and R. P. Drake* *(Lawrence Livermore National Laboratory and University of Michigan)*	An Efficient and High Resolution Solver for the Two-Dimensional Numerical Simulation of the Richtmyer-Meshkov Instability (C41) *S. P. Wang, M. H. Anderson, J. G. Oakley, and R. Bonazza* *(University of Wisconsin-Madison)*	

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Measurements Within a Richtmyer-Meshkov Mixing Zone using a Triple Hot Wire Probe Technique (E37) *L. Schwaederlé, G. Jourdan, L. Houas, and J.-F. Haas (IUSTI and Commissariat à l'Energie Atomique)*	ALE Simulations of Turbulent Rayleigh-Taylor Instability in 2-D and 3-D (C42) *S. V. Weber, G. Dimonte, and M. M. Marinak (Lawrence Livermore National Laboratory)*	
Experimental Study into Evolution of Gravitational Turbulent Mixing of Gases at the Multifunctional Shock Tube (E38) *Yu. A. Kucherenko, O. E. Shestachenko, Yu. A. Piskunov, E. V. Sviridov, V. M. Medvedev, and A. I. Baishev (Russian Federal Nuclear Center - VNITF)*	Preliminary Results of DNS and LES Simulations of Self-Similar Variable Acceleration RT-Mixing Flows (C47) *D. L. Youngs, X. Silvani, J. Magnaudet, and A. Llor (Atomic Weapons Establishment, Institute de Mécanique des Fluides de Toulouse, and Commissariat à l'Energie Atomique)*	
Doubly-Shocked Richtmyer-Meshkov Instability Experiments at Nova (E41) *D. J. Ward, K. S. Budil, T. A. Peyser, B. A. Remington, P. L. Miller, R. J. Wallace, H. Louis, and A. Demiris (Lawrence Livermore National Laboratory)*	Rapid Turbulization Arising from Vortex Double Layers in Interactions of "Complex" Blast Waves and Cylindrical and Spherical Bubbles (C49) *S. Zhang, Y.-G. Kang, K. Nishihara, N. J. Zabusky, and H. Kim (Rutgers University and Kwangju Institute of Science and Technology)*	

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
Evolution of the Mixing Zone of Different Densities Gases Being Interaction to Compression Waves (E43) *S. G. Zaytsev, V. V. Krivets, I. M. Mazlin, S. N. Titov, E. I. Chebotareva, V. V. Nikishin, V. F. Tishkin, S. Bouquet, and J.-F. Haas* *(Krzhizhanovsky Power Engineering Institute, Institute of Mathematical Modeling, and Commissariat à l'Energie Atomique)*	Turbulent Flow Simulations of Two Fluids Moving with Different Laws of Acceleration (C51) *V. I. Kozlov, A. N. Razin, and I. V. Saphzhnikov* *(Russian Federal Nuclear Center - VNIIEF)*	
Studies of Rayleigh-Taylor Instability in Aluminum Under Shock-Wave and Shock Less Loading (E44) *A. Lebedev, P. Nizovtcev, and V. Raevsky* *(Russian Federal Nuclear Center - VNIIEF)*	The Behavior of Velocity Variance Resulting From Turbulent Mixing Zone-Shock Interaction (C52) *V. I. Kozlov and A. N. Razin* *(Russian Federal Nuclear Center-VNIIEF)*	
Ablative Rayleigh-Taylor Instability at Short Wavelengths (E45) *H. Azechi, T. Sakaiya, M. Nakai, H. Shiraga, K. Shigemori, N. Miyanaga, M. Nishikino, S. Fujioka, Y. Tamari, H. Nagatomo, A. Sunahara, and H. Takabe* *(Osaka University and Rutgers University)*	An Assessment of Multi-Velocity Versus Single Velocity in a Multi-Component Model of Turbulent Mixing (C53) *D. Eliason, W. Cabot, and Y. Zhou* *(Lawrence Livermore National Laboratory)*	

8th IWPCTM Program Schedule
(all Poster Sessions are held in the Winnett Lounge and Club Room)

Experimental Posters	Computational Posters	Theoretical Posters
	Mixing due to the Rayleigh-Taylor Instability (C55) *A. M. Dimits* *(Lawrence Livermore National Laboratory)*	
	Mixing due to the Rayleigh-Taylor Instability (C57) *A. Miles, J. Edwards, and G. Glendinning* *(Lawrence Livermore National Laboratory and University of Maryland)*	