

2026 PDV Workshop

AGENDA

All events to be held in Senior Ballroom, Room 220, Compton Union Building (CUB), unless otherwise noted.

Tuesday, May 19

8:00 AM	Registration opens	
8:40 AM	Opening Remarks	Dan Dolan, Washington State University
Session One Chair: Dan Champion		
9:00 AM	Analyzing Digitizer/Scope Specifications and the Impact on (PDV) Measurements	Kris Larsen, Keysight
9:20 AM	Results and Limitations of PDV Measurement at 830 nm	Jacky Bénier, CEA
9:40 AM	Further Investigation of Novel Shock Amplification Platform for Dynamic Material Properties	Tom Ao, Sandia National Laboratories
10:00 AM	Break	
Session Two Chair: Pat Harding		
10:30 AM	Digitizer Sample Rate Trade-offs in PDV Applications	Daniel Knierim, Tektronix
10:50 AM	Evolution of Strength During Beta to Gamma (bct) Polymorphic Transition in Pure Tin: Combined Compression & Shear Plate Impact Experiments	Vikas Prakash, Washington State University
11:10 AM	Removal of Plasma Effects from PDV Surface Velocity Measurements	N.P. Brown, Sandia National Laboratories
11:30 AM	No-host Lunch Break	
Session Three Chair: Mike Hargather		
1:00 PM	Resolution Doubling for Position-Sensitive Sensors in Shock Wave and Detonation-Driven Experiments	Tetiana Bowley, Los Alamos National Laboratory
1:20 PM	Testing Temporal Resolution of Ultrafast FBG: Prompt Impulse Measurements at LIGHT Facility	Paulius Grivickas, Lawrence Livermore National Laboratory
1:40 PM	Tracking Wavy Shock Fronts	Dan Dolan, Washington State University
2:00 PM	Break	
Session Four Chair: Tom Ao		
2:20 PM	PDV Uncertainty Propagation	Colt Cagle, Los Alamos National Laboratory
2:40 PM	Progress in Direct Waveform PDV Analysis Through Machine Learning	Adam Susser, Los Alamos National Laboratory
3:00 PM	Using the Complex Spectrum to Analyze PDV Data	Jim Hawreliak, Washington State University
3:20 PM	Break	
3:40 PM	Posters and Free Discussion	
4:00 AM	Posters and Free Discussion	
5:00 PM	Dinner in Junior Ballroom (Room 210/212, CUB)	

Wednesday, May 20

8:00 AM CUB Senior Ballroom Opens

Session Five Chair: Jim Hawreliak

9:00 AM Broadband Laser Ranging Development Callum Pryer, AWE

9:20 AM Fast Laser Ranging with Telecom Components Paul Munger, Lawrence Livermore National Laboratory

9:40 AM Surface Motion Trigger System Using PDV-like Optical Frequency Shifts Brandon LaLone, Mission Support Test Services - Presented by Paulius Grivickas, LLNL

10:00 AM *Break*

Session Six Chair: Vikas Prakash

10:20 AM An Introduction to TSI: Thermographic Spectral Imaging Maria Palacios, Mission Support Test Services

10:40 AM PDV Measurements of Shock Wave- Particle Curtain Experiments in the LANL Horizontal Shock Tube: Mono- vs Poly-disperse Particle Curtains Christopher Noble, Los Alamos National Laboratory

11:00 AM Triple Doppler Frequency Spectrogram from a Triature Photonic Doppler Velocimeter Yohan Barbarin, CEA DAM Gramat

11:30 AM *No-Host Lunch*

Session Seven Chair: Nathan Brown

1:00 PM Understanding Collision Mechanisms for Momentum Diagnostics in Ejecta Physics Daniel Champion, Lawrence Livermore National Laboratory

1:20 PM Sintered Tungsten Carbide and Martensitic Stainless Steel as New Materials for Asay Foils Patrick Younk, Mission Support Test Services - Presented by Daniel Champion, LLNL

1:40 PM Next-Generation PDV Analysis Discussion Various

2:00 PM Closing Remarks Dan Dolan

2:20 PM *Break*

2:40 PM Open Discussions or Optional Institute for Shock Physics (ISP) Facility Tour Sign up for ISP Tour at Registration

4:00 PM Adjourn

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