



Photonic Doppler Velocimetry (and adjacent techniques)

Opening remarks

- Welcome to the 13th PDV workshop
 - Two days of presentations
 - One session at a time, three presentations per session
 - Lots of breaks
 - One poster session
 - Vendor tables
 - Lots of open discussions
- Past, present, and future of the workshop...

A long time ago...

- PDV emerged from an LDRD project at Livermore (1998-1999)
 - Semi-final concept in use in 2003 (SMF28, 1550 nm, ...)
 - People were talking about this openly in 2004-2005
- Workshop began as an informal gathering in 2006
 - Everyone was basically one degree of separation from Ted Strand
 - Such a resounding success that Ted agreed to do it again in 2007
- There was a great deal of excitement because:
 - PDV could measure things not were not measurable before, or do it more easily/cheaper
 - The user community shared ideas and quickly
 - There was lots of low hanging fruit to be harvested

Interest in PDV blossomed

- Meetings held **every** year from 2006 through 2012
- The growing audience became too large for a standard conference room
 - Different volunteer hosts
 - Industry vendors began participating in 2009
 - Growing non-DOE community made onsite meetings difficult for the national labs (last one was 2012)
- As the technique matured, the workshop shifted to alternate years from the SCCM conference (2014-2018)
 - 2020 meeting cancelled due to the pandemic
 - Schedule got a bit off track with pent-up demand (2023)
 - We are now back on schedule (2024, 2026)

This year we have:

- About 120 registered attendees
 - 50 from U.S. national laboratories
 - 20 from various universities
 - 11 international attendees
 - 6 contractors
 - 33 vendor representatives (12 companies)
- 22 oral presentations
 - Mostly PDV
 - Some adjacent topics (optical ranging, fiber Bragg gratings)
- One-day short course for new people (yesterday)
 - 18 students

Workshop presentations

- PDV archive now hosted by WSU
 - <https://shock.wsu.edu/pdv-workshop>
 - All presentations from previous archive (2006-2018) plus the **2023 and 2024 meetings**
 - **Will be updated shortly with this year's presentations**
 - Available for future workshop presentations
- Special issue of the Journal of Dynamic Behavior of Materials (2027)
 - Optional for presenters but highly recommended
 - Manuscripts due September 1, 2026
 - Speakers will be contacted after the workshop with more details
 - POC: Zach Fussell

Future of the PDV workshop

- After 20 years, is there still a need for additional workshops?
 - The technique is well established and documented
 - Even so, community demand persists and should not be overlooked
 - What are the **unresolved** issues?
 - Fiber birefringence, speckle, multiplexing, overlapping peaks, ...
- **Ideas to consider**
 - Workshop continues in 2028 at WSU or elsewhere
 - Workshop get folded into another meeting (APS GCCM)
 - Workshop gets rebranded as a broader meeting
 - Example: "High-speed optical diagnostics"
- Look for a survey in your email...

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