

Wed, Sept 13<sup>th</sup>  
9:30 AM - 4 PM



**Polytec**

Technology Seminar

Location

**MidWest office**

47909 Halyard Dr.  
Plymouth, MI 48170

## NVH, structural dynamics and surface metrology

Current trends and latest advancements



Polytec technology seminar features the latest advancements in non-contact measurements: laser Doppler vibrometry (LDV), surface metrology and acoustic beamforming. Find out how these technologies are used for static and dynamic characterization in the fields of Automotive, Manufacturing, Aerospace, NDT, Ultrasonics and more. Polytec experts will also be on hand to answer any of your questions about current and future measurement needs.



We will be presenting the latest developments in our technology, including live demonstrations of the following systems:

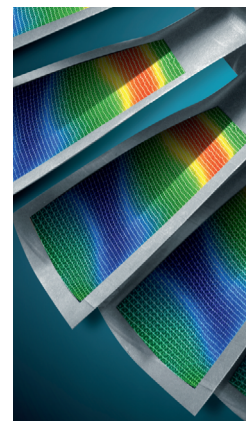
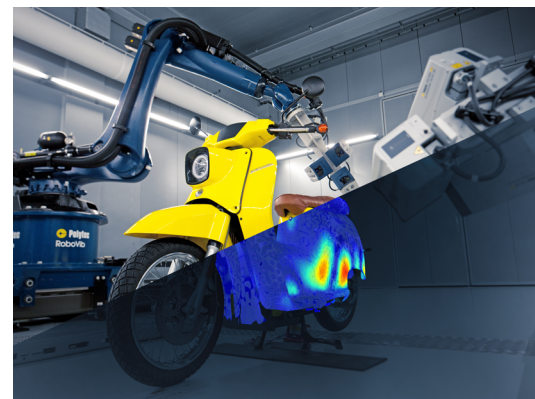
- Modal testing with the RoboVib Test Station
- Portable Scanning Vibrometer (PSV-500)
- Surface Metrology Systems (TopMap Pro.Surf and Micro.View)
- Production testing with the IVS-500 Vibrometer
- Next generation of vibrometry - VibroFlex QTec
- Acoustic Imaging Solutions



The seminar is free of charge. Breakfast and lunch will be provided.

View full **Agenda** on the next page.

[www.polytec.com/events](http://www.polytec.com/events)



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## Agenda (EST)

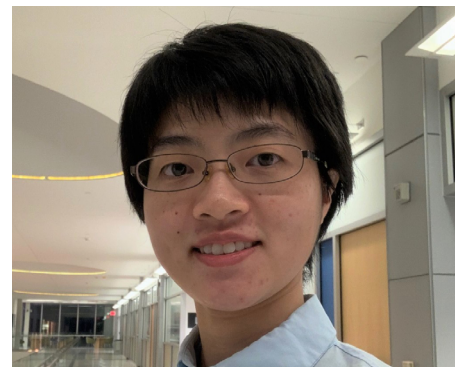
- 8:30 AM Continental breakfast (optional to attendees)
- 9:30 AM Welcome and introduction to Polytec
- 9:35 AM "Latest from the world of vibrometry - hardware and software updates," by Gregg Palombo
- 10:00 AM Guest speaker Patrick Dorin, University of Michigan  
"Harnessing laser Doppler vibrometry for the experimental analysis of mechanical metamaterials"
- 10:40 AM Coffee break
- 10:55 AM Guest speaker Wei-Chun Lu, University of Michigan  
"Experimental modal analysis of dissipative metamaterials"
- 11:35 AM "Acoustic imaging solutions," by Dan Domme
- 12:00 PM "3D surface characterization- roughness and form parameters" by Osama Jameel
- 12:25 PM - Lunch
- 1:25 PM Breakout session workstations - **bring 1 sample pp to meaasure!**  
Live measurement example and hands-on measurements
  - Modal testing with the RoboVib Test Station
  - Portable Scanning Vibrometer (PSV-500)
  - Surface Metrology Systems (TopMap Pro.Surf/Micro.View)
  - Production testing with the IVS-500 Vibrometer
  - Next generation of vibrometry - VibroFlex QTec
  - Acoustic Imaging Solutions
- 4:00 PM Seminar Completed

## Speakers



**Patrick Dorin**

*Ph.D. candidate,  
University of Michigan*



**Wei-Chun Lu**

*Ph.D. candidate, Mechanical Engineering  
University of Michigan*