

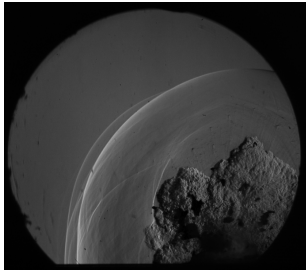
High-Speed Digital Imaging Techniques for Blast and Impact Measurement

a hands-on short course at the
**Energetic Materials Research and
Testing Center (EMRTC)**
on the **New Mexico Tech** campus
led by Dr. Michael Hargather
July 31-August 3, 2023



Monday, July 31

Introduction to cameras
High-speed camera tech
Schlieren imaging
Hands-on schlieren



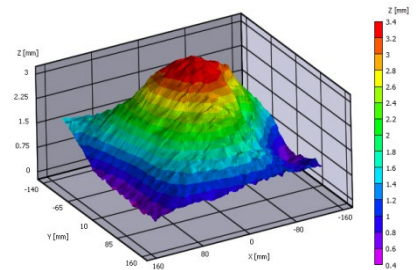
Tuesday, August 1

Imaging explosions
Shock wave visualization
Fragment tracking
Hands-on pipe bombs



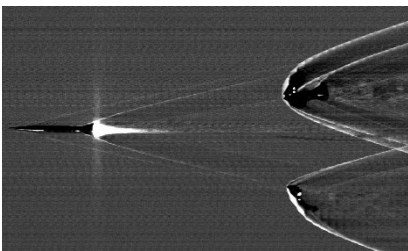
Wednesday, August 2

Impact response
Digital image correlation
Strain and deformation
Hands-on 3D measuring



Thursday, August 3

Image processing
Digital streak images
Participant applications
Hands-on finale



Course location: Socorro, New Mexico

Registration: \$2850, A limited number of seats are available
for this course, please register early

Participants: Technicians, academics, camera users, data
analysts, commercial blasters, engineers,
professionals, defense contractors, etc.

Instructors: Dr. Michael Hargather,
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Sponsors: Photron USA, Correlated Solutions Inc.,
Northrop Grumman

For more information, email michael.hargather@nmt.edu
or visit: www.nmt.edu/mjh/highspeed.php