

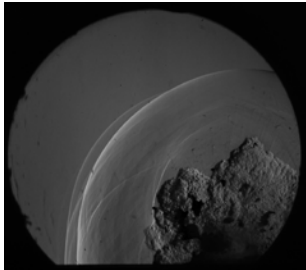
# High-Speed Digital Imaging Techniques for Blast and Impact Measurement

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  
June 19-22, 2017



## Monday, June 19

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



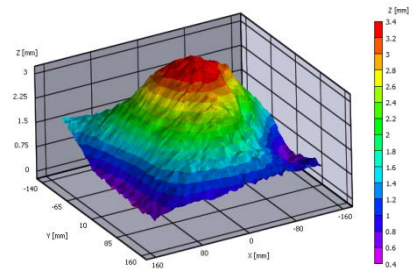
## Tuesday, June 20

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



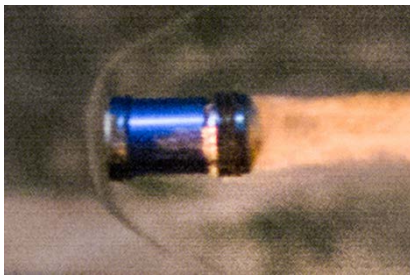
## Wednesday, June 21

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



## Thursday, June 22

Image processing  
Digital streak images  
Participant applications  
Hands-on finale



Course location: Socorro, New Mexico

Registration: \$1900 before April 1, 2017  
\$2100 after April 1, 2017

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

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Sponsors: Photron USA, Correlated Solutions Inc.,  
OrbitalATK

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or visit: [www.nmt.edu/mjh/highspeedimaging.html](http://www.nmt.edu/mjh/highspeedimaging.html)