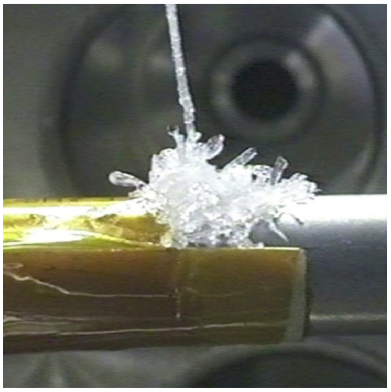
Hardware Processing facts

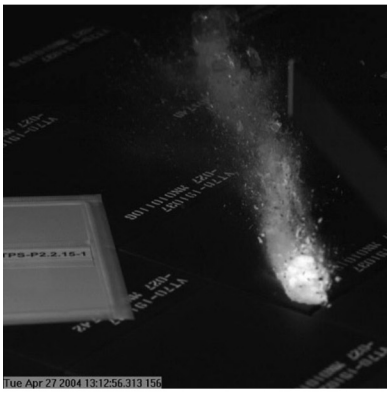
Photographic and Video Operations

The White Sands Test Facility (WSTF) maintains a full-service facility for still photography, high-speed imaging, video production, and video instrumentation. Services are available in laboratory and field environments, including hazardous areas requiring personal protective equipment and specialized certifications.



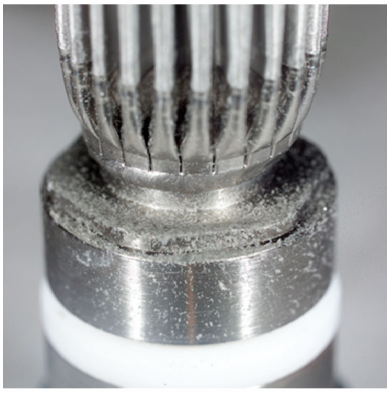
Equipment

- Professional digital still and analog photography cameras with a wide variety of lens options
- High-speed digital video cameras
- Standard, digital, and rapid-shutter video systems
- Nonvisible spectrum cameras and filters
- Laboratory support equipment including digital processing/printing systems, video editing systems, video teleconferencing.



Capabilities

- Digital still photography imaging and printing in black and white and color
- 35-mm ultra high-speed infrared shadowgraph photography to 2,000,000 frames per second (fps)
- Digital ultra high-speed imaging to 200,000,000 fps
- Standard, S-VHS, and digital real-time video
- High-speed video from 60 to 1,000,000 fps
- Rapid-shutter video imaging to 100 μs/frame
- Infrared video from -20 to 1500 °C
- Ultraviolet/infrared photography from 280 to 910 nm
- Borescope imaging
- CCTV system design
- Remote pan, tilt, and zoom operation of video systems
- Remote operation of still photo and digital video systems via hard line, RF, break beam, and acoustic triggering
- Rotary wing aerial photography
- Digital macro photography to 35x magnification at 12,000 x 9000 pixels
- Digital image generation and processing
- Wide-format computer printing up to 24 x 90 in.
- Digital video editing across multiple platforms and formats
- Video teleconferencing via NASA Integrated Services Network (NISN) Video Teleconferencing (ViTS)
- Image archive of over 135,000 photographs, dating from 1964 to present
- Virtual drum film scanning from 35 mm to 4 in. x 5 in. at 80 to 8000 dpi; 50 Mb/min
- Flatbed scanning up to 12 in. x 17 in. at 9600 x 9600 dpi
- Public relations and marketing photography available



Contact Clifford D. Madrid at (575) 524-5158, clifford.d.madrid@nasa.gov
www.nasa.gov/centers/wstf