



## OPTOBOTICS<sup>sm</sup>

### Precision Motion for the OpticsAge A look around the Martian Surface

**Tuesday, December 11, 2012**

**The Webinar will begin at 11:30 PST.**



Images Courtesy NASA/JPL-Caltech

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# Presenter

## **Donn Silberman, M.S.**

- Is a Sr. Engineer / Manager, with over 30 years of experience in various optical industries and education.
- His areas of expertise are in product management, including conceptualizing, research and development, engineering, quality assurance, product manufacturing, marketing and sales.
- With experience that is focused on performing, directing, designing, and evaluating optical systems of many different configurations and applications.
- His selective expertise includes optical lens design, optical systems design, fiber optics, medical optics, laser systems, optical metrology systems, optomechanical components and precision positioning & motion control systems.
- He is a Fellow and Past President of the Optical Society of Southern California, the Founding Director of the Optics Institute of Southern California and is a Senior Member of The Optical Society of America and SPIE, the International Optical Engineering Society.
- Serves as the Advisory Committee Chair for the UC Irvine Optical Engineering & Instrument Design Certificate Programs and as an instructor.



# Optical Instruments on Curiosity

## Cameras

1. [Mast Camera \(Mastcam\)](#)
2. [Mars Hand Lens Imager \(MAHLI\)](#)
3. [Mars Descent Imager \(MARDI\)](#)

## Spectrometers

4. [Alpha Particle X-Ray Spectrometer \(APXS\)](#)
5. [Chemistry & Camera \(ChemCam\)](#)
6. [Chemistry & Mineralogy X-Ray Diffractometer \(CheMin\)](#)
7. [Sample Analysis at Mars \(SAM\) Instrument](#)

