



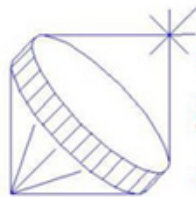
MOUNT LAGUNA
OBSERVATORY



SAN DIEGO STATE
UNIVERSITY

The UltraLightweight Technology for Research in Astronomy (ULTRA) Project

B. A. Twarog, B. J. Anthony-Twarog, S. J. Shawl, R. Hale,
R. Taghavi (*University of Kansas*),
R. Fesen (*Dartmouth College*),
P. Etzel (*San Diego State University*),
R. Martin, R. Romeo (*CMA, Inc.*)



*Composite
Mirror
Applications*



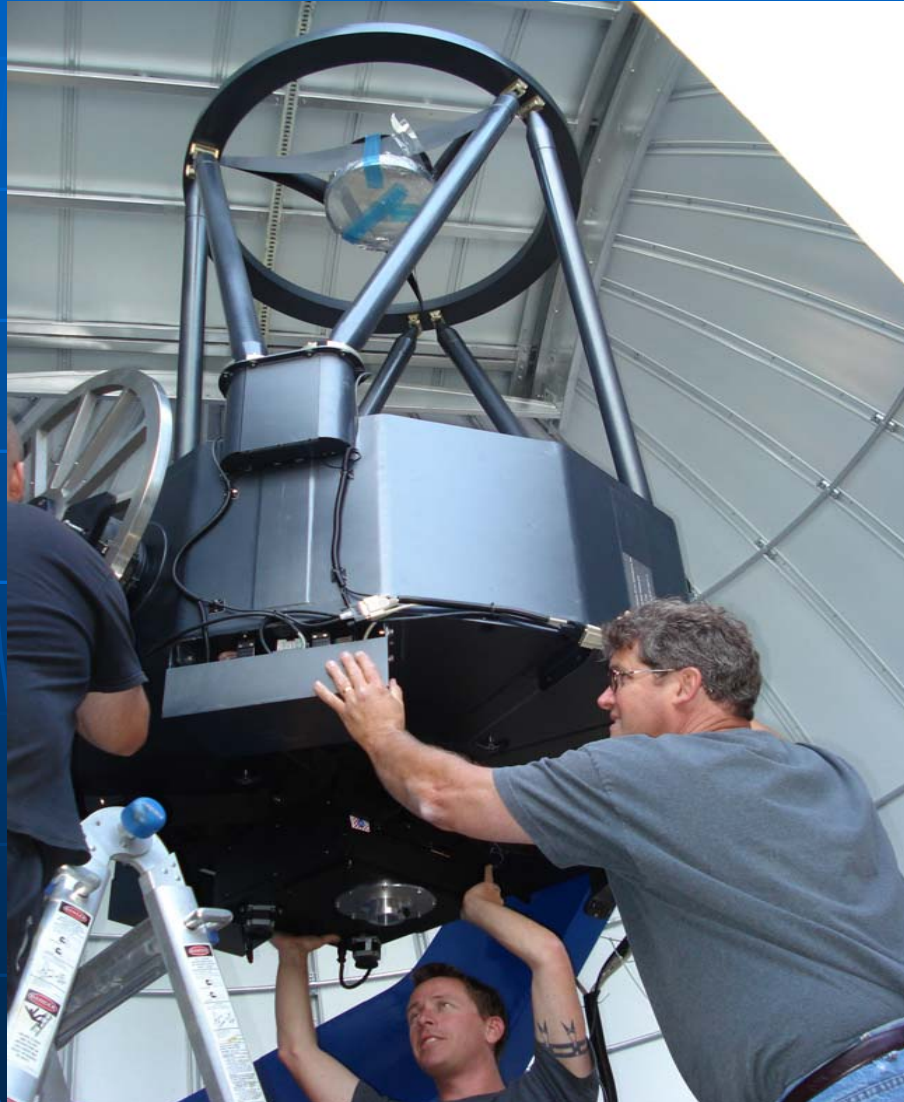
Also Astronomical Consultants and Equipment, Inc. (ACE)

ULTRA Mount Dec. 6, 2006

Jay C. Grover (now retired)



ULTRA Telescope June 8, 2007 (CMA personnel)



NSF PREST Award

- Refurbish Optical System of “Illinois” 40-inch
- Upgrade Telescope Control System
- Upgrade Dome, and Direct Imaging Capabilities
- Allow Remote Observing – HPWREN
- Guest Observer Program

Progress with 40-inch (note changed encoders & motors)

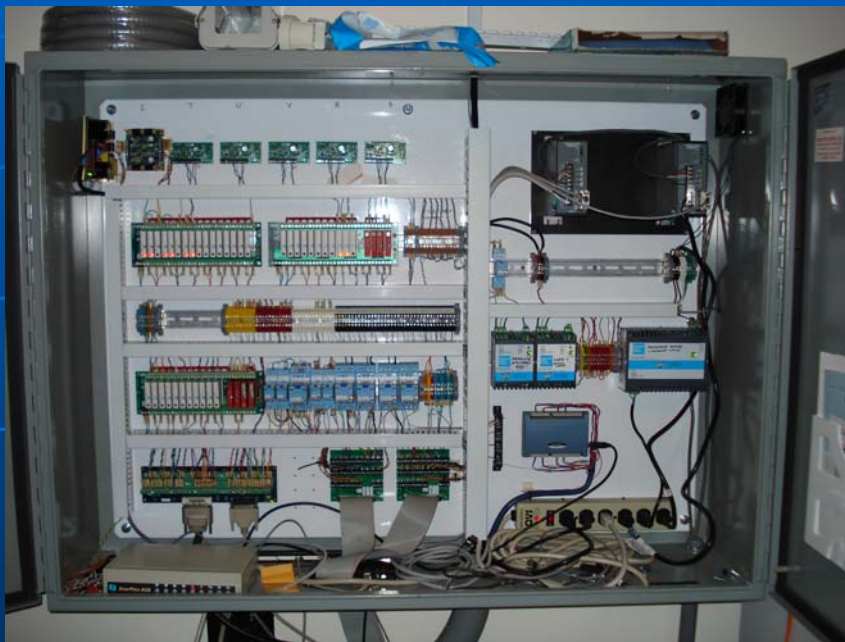


2005 (spectrograph)



2007 (old CCD camera)

ACE, Inc. Telescope Control System (40-inch)



I/O cabinet



TCS computer

New Imaging Hardware (ULTRA and 40-inch)



Dual Filter Wheel
Finder/Guider



Closed Cycle Refrigeration
CCD Dewar