

LOS ANGELES BASIN GEOLOGICAL SOCIETY MEETING ANNOUNCEMENT

March 27(Thursday)

Dr. Robert Anderson, Group Supervisor of Geophysics and Planetary Geosciences at the Jet Propulsion Lab, Pasadena, California

Will speak on: Unraveling the Geologic History of Mars

Abstract

Understanding the geologic and tectonic histories of Mars is a complex problem. Magmatism, tectonism, and hydrogeologic activities have contributed significantly to the geologic evolution of Mars, especially pronounced in and surrounding the Tharsis region. Tharsis is interpreted to be the result of plume-driven activity, ranging from mantle plume to superplume activity. Tharsis displays: (1) distinct episodes of intensive early magmatic/tectonic activity that declines with time, (2) a suite of diagnostic landforms, including volcanic constructs of diverse sizes and shapes and extensive lava flow fields, large igneous plateaus, canyon systems, ancient mountain ranges, catastrophic outflow channels, and systems of radial faults and circumferential systems of wrinkle ridges and fold belts centered about local and regional centers of magmaticdriven activity, which includes uplift, dike emplacement, volcanism, and hydrothermal activity, (3) early explosive activity transitioning into more concentrated, volcano and fissure-fed eruptions,(4) early basin formation, and (5) pulsating, long-lived development.

Tharsis-related activity is considered to have triggered gigantic floods that ponded in the northern plains to form oceans and/or lakes,

causing short-term hydrological cycles and transient climatic perturbations from a common cold and dry Mars. Dr. Anderson will present an overview of the early histories of Mars.

Speaker's Biography

Robert Anderson received degrees from Old Dominion University (B.S.,M.S.) and University of Pittsburgh (Ph.D.). Dr. Anderson is currently the group supervisor of Geophysics and Planetary Geosciences at the Jet Propulsion Lab (JPL) where he serves as an investigation scientist on the Mars Science Laboratory, the lead for the Solid Sample Library, and director of the JPL Regional Planetary Image Facility.

At JPL he has also served as a collaborator on the Mars Exploration Rovers, mission planner and investigation scientist for the 2001 and 2003 Mars Missions, geological consultant for rover development, and deputy education and outreach coordinator for the Mars Exploration Office. Dr. Anderson has served on the faculty of California Institute of Technology, Pasadena City College, and University of Pittsburgh where he has taught a number of classes on planetary geology. He has been an officer of the Planetary Science Division for the Geologic Society of America for the last 7 years and is currently

serving as past chair. He is the recipient of numerous NASA Group Achievement Awards for his work with the Mars Pathfinder, Mars Exploration Rovers, and Mars Science Laboratory projects

Meeting Time, Place, Cost and Reservations

Time:

Thursday, March 27th, 2014

Typical Meeting Agenda

Lunch Served: 11:30 AM to 12:00PM Announcements: 11:45 AM to 12:00 PM Guest Speaker: 12:00 PM to 12:30PM Questions/Close: 12:30 PM to 12:45 PM

Place:

The Grand at Willow Street Conference Center located at 4101 East Willow Street, Long Beach, CA. (562-426-0555). Take Lakewood Boulevard south from the San Diego Freeway (405), turn west onto Willow Street and turn right onto Grand Avenue at the sign for the Center. Park free in the garage structure.

Cost:

Lunch and Speaker: \$20.00 with reservations

\$25.00 without reservations

Student: \$5.00 (Lunch and Speaker)

Meeting Reservations:

Make your reservations using our web site at www.labgs.org, or by calling Graham Wilson (562)-326-5278, or emailing gwilson@shpi.net.

Reservations must be made by 10:00 AM Tuesday morning prior to Thursday's meeting to receive discount price noted above. As always walk-ins are welcome.

Contact Us - The LABGS Board

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www.labgs.org

Student Sponsorship

Looking for Student Lunch sponsors. If you or your Business/Organization would like to become a Student Lunch Sponsor, please let us know.

Upcoming News

- There is no LABGS meeting in April. We encourage your attendance at the annual PSAAPG Convention in Bakersfield
- Standby for announcements of our new programs this summer! Two great speakers!