



SCCAVS Newsletter

September 2009

Special points of interest:

- Speaker Meeting to be held at Il Fornaio, Pasadena at 6pm with 8pm presentation from Dr. Michael Hecht (JPL)
- Elmer Carvey Scholarship recipient chosen
- "Ask The Experts"
- Opportunities for advertisers to start 2010
- Join us at our next meeting at Buca Di Beppo in Brea Oct. 14th at 6pm. For more info & RSVP: sccavs@sccavs.org

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An Evening with Dr. Michael Hecht of JPL at Il Fornaio

Contributed By: Larry Oberlander

On Tuesday, September 29th the SCCAVS is pleased to present an evening with Dr. Michael Hecht of the Jet Propulsion Laboratory at Il Fornaio's Sorrento Room in Pasadena. Michael Hecht has been a physicist at JPL for the past 25 years. His current research focuses on the physics and chemistry of Mars' polar regions. In addition



On May 25, 2008 the Phoenix Lander touched down on Mars triggering exuberant yelps from JPL scientists and great sighs of relief from Upper Management!

to planetary science, he has worked at various times on semiconductor surfaces and interfaces. Prior to MECA, Dr. Hecht was involved in the original conception of the Deep Space 2 probes that flew to Mars in 1999, and led the technology development team for the New Millennium Program that sponsored them. He has designed, built, and operated numerous laboratory instruments for materials analysis, a field in which he has published extensively. He received his PhD from Stanford in 1982, a M.S. from M.I.T. in 1976, and an A.B. from Princeton in 1974.

The talk titled "My Summer on Mars (well Tucson actually)" will include a mixture of scientific results, a discussion of what it actually takes to run a mission on Mars, and a few mildly amusing anecdotes.

The deadline to register for this event is September 23rd and



Dr. Michael Hecht was lead scientist for the Microscopy, Electrochemistry, and Conductivity Analyzer (MECA) on the recent Mars Phoenix mission for the Jet Propulsion Laboratory

the cost is \$20 per person for non-members, \$18 for AVS members, and \$10 for students. This includes a buffet dinner at 7pm followed by the presentation at 8pm. Please arrive early as we will hold a "meet and greet" networking event prior to dinner at 6pm. For more information contact

info@sccavs.org

Elmer Carvey Scholarship Recipient Announced

Jeff Lince

The winner of the 2009 Elmer Carvey Scholarship is Derrick Diego, a Senior at University of California, Irvine, majoring in Chemistry. He is performing undergraduate research with Professor Matt Law, developing methods to grow pyrite thin films and nanowire arrays for solar cell applications. Mr. Diego used chemical vapor

deposition (CVD) to successfully produce pyrite thin films. He is currently working on analytical methods to characterize the films. Mr. Diego is making these significant research advances, all while maintaining a strong academic record at UCI and a position on the UCI crew team.

The Elmer Carvey Memorial Scholarship was established in

honor of Elmer Carvey, an active member of the SCCAVS from 1964 until 1982. The Scholarship is awarded to students attending public, four-year colleges in California who are studying physics, chemistry, materials science and engineering, and whose desired career goals are in areas of interest to the society. The stipend is \$3,000.00 for one year.

SOUTHERN CALIFORNIA CHAPTER OF THE AVS

Mailing Address: Southern California Chapter AVS P.O. Box 3067 San Clemente, CA 92674 info@sccavs.org

We're on the web! www.sccavs.org

Upcoming Events:

2009 California Science Education Conference October 22-25th Palm Springs, CA www.cascience.org

Solar Power 2009 October 27-29th Anaheim, CA www.solarpowerinternational.com

AVS 56th International Symposium & Exhibition November 8-13th San Jose, CA www2.avsv.org/symposium/



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Advertisement for mbar featuring Corinne Freeman, Sales, Southern California, with contact info (714) 536-2800, Corinne@mbartech.com, www.mbartech.com, and Vacuum Components, Consumables, Service & Systems.

Community Q&A: "Ask The Experts"

Ethel Poire Welcome to our new Q&A forum where questions can be sent in by you, the reader, and answered by industry experts from our membership! All questions and answers are to be sent to:

askssccavs@sccavs.org

Deadline is Dec 1st, 2009

Last Month's Question: Where can one find a supplier that can provide a reference block of Nickel with a traceable certificate showing the Young's Modulus and Poisson's Ratio?

Member Response: We are still looking for member responses to this question! Be the first with a valid response and be published in our next issue!

Question of the Month: "I am new to designing for vacuum. Our customer has asked us to build our product for use in space and requested we use low outgassing materials. Can you suggest a reference for finding low outgassing materials and the relative differences between materials?" -SB

Advertising Opportunity Available!!!

Our membership is expanding and we would like to give our readers and supporters the chance to expand their business visibility as well. Your sponsorship of the SCCAVS Newsletter directly supports Chapter activities, speaker meetings, field trips, and other great opportunities the organization provides you!

Sponsorship starts at just \$75 per quarter, and a discount rate of \$250 for the entire year (4 issues) is available.

Please contact Corinne Freeman with questions. Our next issue will go out in December just in time to start 2010.

Corinne@sccavs.org