

Science and Engineering Council of Santa Barbara: February Luncheon

Elephant Bar Restaurant, Thursday February 12, 2009, 12:00-1:30

----- THIS MONTH'S TOPIC -----

Wine, Coca Cola®, Absolut Vodka® and Light Scattering: How a problem of physics helped launch a company.

Attempts to find solutions to the Inverse Scattering Problem of Physics formed the basis for the development of a variety of analytical instruments, an internationally recognized company, and a few lawsuits as well! If one can measure the light scattered by a small object, under certain circumstances one can determine many of the object's physical properties. The many practical applications of this problem seemed a fine basis for developing the tools/instruments by which this objective might be achieved. The development and promotion of these instruments and some of their unexpected consequences are presented.

----- PRESENTER -----



Philip J. Wyatt, CEO, Wyatt Technology Corporation

Philip Wyatt completed undergraduate education at the University of Chicago (AB 1952, SB 1954) with additional studies at Christ's College, Cambridge University.

He completed graduate studies at the University of Illinois (MS 1956) and the Florida State University (PhD 1959).

He worked at the Los Alamos National Laboratory and upon graduation joined Ford Motor Company's Aeronutronic Division, followed by General Research Corporation and EG&G. In 1968, he founded Science Spectrum, Inc. his first entrepreneurial venture focused on BW defense and food quality. That firm closed in 1982, and he founded Wyatt Technology Corporation where he continues as its CEO.

His scientific endeavors continue with his direction of the firm's ongoing R&D and manufacturing in the field of analytical instrumentation, emphasizing the study and measurement of protein interactions, nanoparticle structure, drug development and delivery, and biodefense.

He is the American Physical Society's 2009 recipient of the *Prize for Industrial Applications of Physics* with the citation: "*For pioneering developments in the physics of the inverse scattering problem: new applications of laser light scattering and the successful sustained commercialization of new related analytical methods and instrumentation.*"

----- OTHER INFORMATION -----

\$14 SEC members, \$20 non-members.

Information: Barbara Keaney (E-mail scieng@silcom.com) or call (805) 684-4927.

Reservations not required. **Visit our web page at <http://www.scieng.org>**

Elephant Bar Restaurant: 521 Firestone Road, off Hollister

-- near airport administration, in Goleta.



From the Co-Presidents: This month we are pleased to welcome **Murray Ruben** of Santa Barbara as a new Individual Member, **Gazos Creek, Inc.** of Buellton as a new Corporate Member. We are also pleased to welcome **Raytheon Vision Systems** which has **rejoined** SEC as a Corporate Member. Once again, it's dues time, so if you haven't as yet renewed your membership for 2009, we would appreciate receiving it as soon as possible. Otherwise thanks for your timely renewals, and – as always – please consider a Scholarship Foundation donation. See you in February! **Tim Murphy and Gary Kravetz.**

Please Note: luncheon seating is limited and available on a first-come basis.