



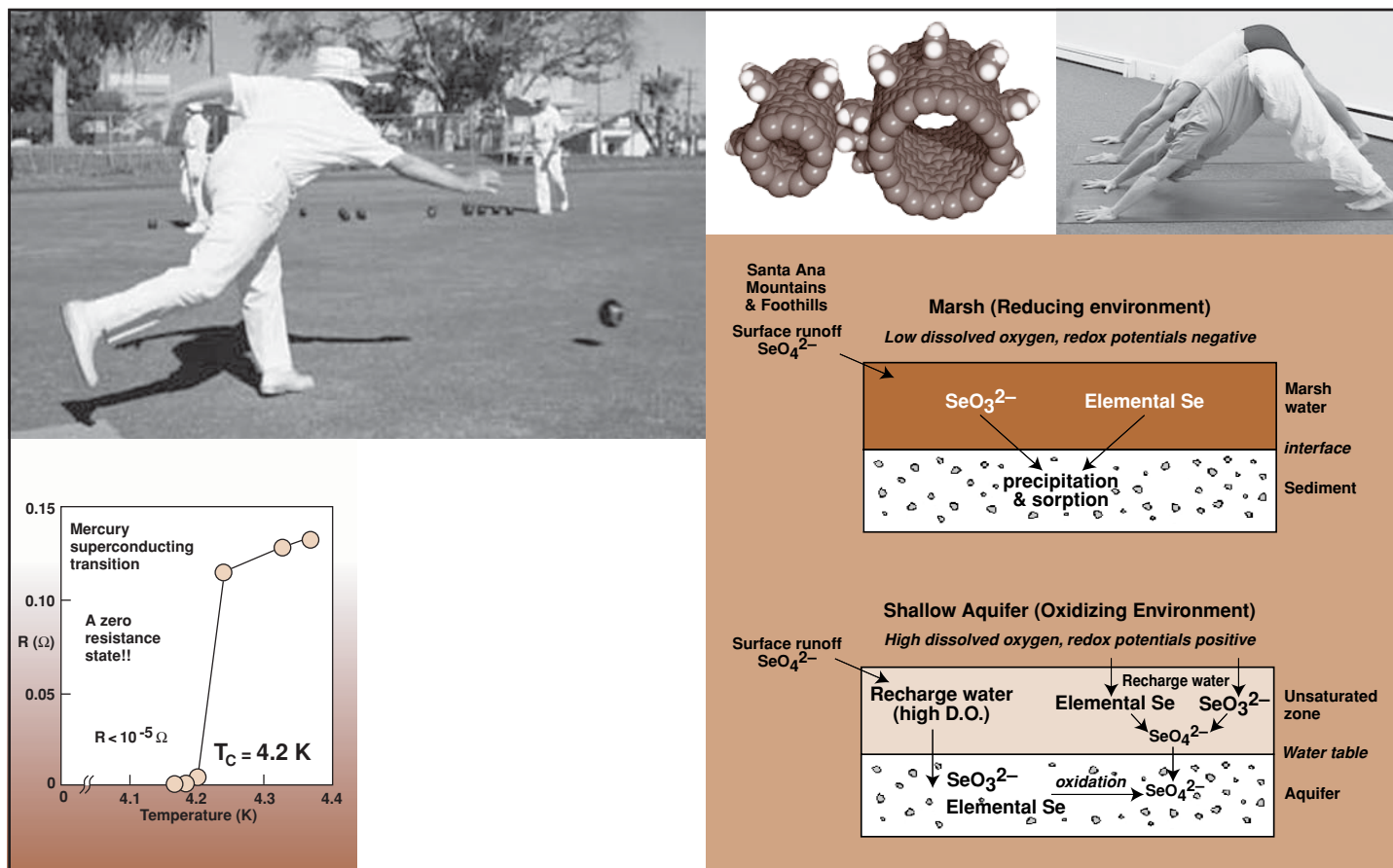
California State University, Los Angeles

SCIENCE SERIES

Professor Russo-Neustadt will lecture on the relationship between exercise and brain function. Most of us know that physical exercise is good for our general health, but did you know that physical exercise is also good for your brain? If you think you're going to get smarter sitting in front of your computer or watching television, think again. Scientists can present evidence that a healthy human being is a human doing.*

Professor Zhao will discuss superconductors, materials that have no resistance to the flow of electricity below a critical temperature. These materials are one of the great frontiers of scientific discovery. Seventy-five years after the discovery of superconductivity in mercury at 4.15 K in 1911, two Swiss physicists discovered copper oxide materials that can superconduct at temperature as high as 130 K. Nevertheless, the ultimate goal of research into high temperature superconductors is to find materials that superconduct at or above room temperature (298 K). In this lecture, Professor Zhao will discuss the possibility of achieving room temperature superconductivity, and comment on some experiments and arguments that support a claim of room temperature superconductivity in graphite and graphite-related carbon nanotubes.

Professor Hibbs will present the results of CSULA's investigation of the sources, fluxes, and spatial distribution of selenium and arsenic in the surface water and shallow ground water of Upper Newport Bay Watershed, Orange County, California. High concentrations of trace elements are often associated with anthropogenic pollutants, such as industrial discharges. Not so in Upper Newport Bay Watershed. In his lecture, Professor Hibbs will show how land use change and displacement of coastal wetlands have allowed trace elements to be leached out of natural geologic formations into local waters. These semi-"natural pollutants" threaten ecological habitats in Upper Newport Bay, a protected ecological preserve.



FALL 2003 - SCIENCE LECTURE SERIES

presented by

The Department of Physics and Astronomy

All lectures will be on Wednesday evenings at 8:00 PM in the Physical Sciences Building, room 158.

Lectures are free and open to the Public. Metered parking is available adjacent to the Physical Sciences Building in Parking Lot B and in the parking structure adjacent to the Luckman Theatre.

SPEAKER	DATE	LECTURE
Amelia Russo-Neustadt	Oct. 8, 2003	How Exercise Can Improve Your Mind
Guo-Meng Zhao	Nov. 5, 2003	Is Room Temperature Superconductivity Possible?
Barry Hibbs	Dec. 3, 2003	Trace Elements in Southern California Coastal Watersheds - Natural or Anthropogenic Sources?

Contact the Department of Physics and Astronomy (323) 343-2100 for more information.

* credits : <http://www.fi.edu/brain/exercise.htm#physicalexercise>