

The Informant

the weekly Newsletter of the

The Department of Anthropology • University of California, Santa Barbara



Number 53

March 9, 2007

Spring Ahead! Daylight Savings starts this coming Sunday, March 11, 2007! Set your clocks forward one hour before bed on Saturday night !

Building & Campus Info:

- Subject: Interruption of heating, cooling, ventilation, and emergency power
Location: Building 515 HSSB
Date: March 22, 2007 to April 2, 2007
Time: 7AM to 4PM intermittently
Reason: Preventive maintenance for mechanical and electrical equipment
Emergency generator will be tested Tuesday March 27, 2007 from 7AM to 8AM.
- The Westerly Chilled Water Project will be starting next week. The east bound lanes of Ocean Road will be closed with two-way traffic on the west bound lanes between the **hours of 8 p.m. and 5:30 a.m.** There will be limited access to the bus loop and Lot 15 during those hours for an approximate two-week period. Please share this information with your staff and direct any questions or concerns to me.
Jennifer L. Pierce, P.E. <jennifer.pierce@dcs.ucsb.edu> Phone: (805)893-8227 Mobile: (805)451-1680

DEPARTMENTAL EVENTS:

No Brown Bag next week!

**Friday, March 16, 4:00 PM, HSSB 2001A
Reception Following the Presentation in HSSB 2024**

Dr. Amber M. VanDerwarker

Department of Sociology & Anthropology

Muhlenberg College

Farming, Politics, and Catastrophe in the Olmec World

Amber VanDerwarker combines analyses of paleoethnobotanical, zooarchaeological, and stable carbon and nitrogen isotopic data to address issues of agricultural intensification and risk in the topical lowlands of Mexico's Gulf Coast during a period of political formation (1400 BC—AD 300). Analyses focus on the site of La Joya, a large village in the Sierra de los Tuxtlas, situated approximately 60-100 km northwest of the lowland Olmec centers of San Lorenzo and La Venta. Collectively, the subsistence data suggest that maize was an important staple crop by the time people settled into permanent villages at the end of the Early Formative period (1400-1000 BC). The emergence of political complexity in the Tuxtlas followed the shift to sedentism by approximately 600 years and appears to correspond with the beginnings of maize intensification. This initial intensification of maize production coincided with the rise of regional leaders and may have been a product of

tribute mobilization encouraged by these aspiring elites. After repeated volcanic activity in the region following the emergence of chiefdoms, the continued intensification of maize production appears to have been a product of increasing environmental circumscription related to eruption and ash fall.

EVENTS:

- **Dr. Paul Crutzen**
Nobel Laureate
Max Planck Institute for Chemistry

Thursday, March 15, 2007

5:30 -- 6:30 p.m.

Corwin Pavilion, University Center, UCSB

"An Atmospheric Experiment in the Anthropocene"

Presented as part of the Bren School's Eminent Speaker Series

Dr. Crutzen shared the 1995 Nobel Prize in Chemistry with Mario J. Molina and F. Sherwood Rowland for group's work in addressing the hole in the Earth's ozone layer. An emeritus professor at Utrecht University's Institute for Marine and Atmospheric Sciences in the Netherlands, he has held many high-level positions, including those of senior scientist and director of the Air Quality Division at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, and was the longtime executive director of the Max-Planck-Institute for Chemistry in Mainz, Germany.

The title of Dr. Crutzen's talk refers to his proposal for a possible "escape route" from potentially out-of-control global warming. He suggests that it is possible to release light-reflecting sulphur particles into the upper atmosphere, which would redirect heat back to space, cooling the global climate.

Writing about climate change, he says, "Without major catastrophes like an enormous volcanic eruption, an unexpected epidemic, a large-scale nuclear war, an asteroid impact, a new ice age, or continued plundering of Earth's resources by partially still-primitive technology, mankind will remain a major geological force for many millennia, maybe millions of years, to come. To develop an accepted worldwide strategy leading to sustainability of ecosystems against human-induced stresses will be one of the great future tasks of mankind, requiring intensive research efforts and wise application of acquired knowledge. An exciting but also difficult and daunting task lies ahead of the global research and engineering community to guide mankind towards global, sustainable, environmental management."

JOB OPPORTUNITIES (details are posted under "Academic Positions" in the Departmental Reading Room):

- The Department of Anthropology at Rhode Island College has begun searches to fill two full-time positions for Fall 2007. One position is a three-year term appointment in Archaeology/Cultural Anthropology. The other is a one-year appointment in Anthropological Linguistics/Cultural Anthropology. Details of the positions and application procedures can be found on the American Anthropological Association website and/or the Society for American Archaeology website. Additional

information is available at <http://www.ric.edu/hr/employopp/A-%20Faculty.html> . Dr. George M. Epple Professor of Anthropology, Assistant to the Dean FAS for Graduate Programs ,Chair, Strategic Plan Monitoring Task Force gepple@ric.edu 401-456-8487

FELLOWSHIPS/GRANTS (details posted under “Fellowships/Grants” in Dept. Reading Room):

- Title: **Science of Science and Innovation Policy**
Solicitation/Announcement No.: NSF 07-547
Deadline: May 22, 2007
Guidelines: <http://www.nsf.gov/pubs/2007/nsf07547/nsf07547.htm>
or by contacting funding@research.ucsb.edu
Synopsis of Program: The goals of this new program are to understand the contexts, structures, and processes of science and engineering research, to evaluate reliably the tangible and intangible returns from investments in research and development (R&D), and to predict the likely returns from future R&D investments within tolerable margins of error and with attention to the full spectrum of potential consequences. Funded activities will: develop usable knowledge and theories of creative processes and their transformation into social and economic outcomes; develop, improve, and expand models and analytical tools that can be applied in the science policy decision making process; and develop a community of experts across academic institutions focused on the science of science and innovation policy. The two areas of emphasis for FY07 are analytical tools and model building.

Estimated Number of Awards: 20 to 30

Anticipated Funding Amount: \$50,000 to \$400,000

Contact: Kaye Husbands Fealing, 703/292-7267 or khusband@nsf.gov

- Title: *Intelligence Community 2007 Postdoctoral Research Fellowship Program

*Solicitation/Announcement No.: HM1582-07-BAA-0005

Deadline: March 21, 2007

Guidelines: <http://www.icpostdoc.org/>

or by contacting funding@research.ucsb.edu

Synopsis of Program: Potential Fellows must be associated with a U.S. university and should have received their Ph.D. within the last five years. Awards will be made for one-year for the amount of \$120,000 per year/per grant. Research topics include:

- * Nanotechnology Enabled Photovoltaic Power Supplies
- * The Psychological Bases of WMD Proliferation
- * Emergent Networks in De-stabilized Societies
- * Behavioral Marketing Methodology for Understanding Ideological Evolution
- * Acoustic Propagation in Realistic Atmospheres
- * Methods and Techniques for Resolving Paraconsistency Issues within Intelligence Data
- * Analytical Information Synthesis Control Center
- * The Analyst "Buddy" (TAB): An Agent-Based Trainable Collaborative Partner
- * Methods and Techniques for Training Intelligence Professional to Perform Scientific and Technical Intelligence Analysis While

Applying Denial and Deception Tradecraft to Their Analytic Processes

- * Unique Perspectives in Video Surveillance
- * Trusted Information Sharing
- * Ultra Fast Search Capabilities Leveraging High Performance Computing Using Commercial-off-the-shelf (COTS) Special Purpose Processors
- * Observational Error Propagation in Weather Forecast Models
- * Computational Neuroscience Approaches to Understanding Scenes
- * Isotope Ratio Mapping
- * The Science of Making Better Temperature Measurements
- * The Development, Testing, and Utilization of an Alternative Method of Characterizing the Distribution of Hyperspectral Image Data in Hyperspace
- * Abstracting Pixels into Contextual Structures
- * Methods for Characterizing the Optical Properties of Irregular Surfaces using Advanced Ray Tracing Techniques
- * Alternative Electronic Materials for Low Visibility Applications
- * Decoherence Mechanisms in Solid State Quantum Bits
- * New Directions in Private Computation and Cryptography
- * Combining Graph and Content Methods for Processing large Heterogeneous Graphs
- * Predictive Models for Information Spread Via Internet Technologies
- * Integrated Power Harvesting
- * Zero-dimension, Nanoscale Thermoelectric Power Source
- * Change Detection Analysis in Social Networks
- * Ultra-sensitive Electronic Detection of Vapor-Phase Threats Using Nanosensors
- * Theories of Influence
- * Audio Digital Signal Processing for Off-Mic Conditions
- * Speech and Acoustic Event Recognition

Contact: Sharon McDowell, 703/264-2144 or Sharon.m.mcdowell@nga.mil

- The Walter H. Capps Center for the Study of Ethics, Religion and Public Life calls for applications for the Mendell Endowed Graduate Fellowship. One or more fellowship stipends for outstanding graduate students in the College of Letters and Science at UCSB whose research programs of study advance the goals of broad-based cultural literacy and high ethical standards in our participative democracy. See <http://www.cappscenter.ucsb.edu/fellow.html> for application forms and guidelines.

FIELD SCHOOLS & TRAINING INITIATIVES (details are posted under Grad and Field Schools in the Departmental Reading Room):

- **Nevada State College** (www.nsc.nevada.edu) is offering a 4-week archaeological field school in northwestern Arizona at Mt. Trumbull, just north of the Grand Canyon. This year we will be conducting archaeological survey and site recording; the session includes instruction in basic laboratory procedures and analyses of artifacts collected in previous years as well. We will record archaeological sites near the Nampawep rock art site on the edge of Toroweap Valley. A number of C-shaped pueblos and field houses are known but not formally recorded, and it is likely many other sites will be found and recorded.
Dr. Paul Buck (NSC and Desert Research Institute, www.dri.edu/People/paul) and Ms. Sachiko Sakai (Univ. California Santa Barbara) are the course instructors. This course is an excellent opportunity to learn the basics of archaeological survey, site mapping, and laboratory analyses, including artifact recognition, recording procedures, and analytic methods. Lectures, discussions, and field trips will help participants learn about the prehistoric Southwest, especially the Virgin Anasazi of NW Arizona and SW Utah.

Credit. All participants must enroll for 4 undergraduate credits in ANTH 448 "Field Methods in Prehistoric Archaeology" through Nevada State College summer session. Students need not be enrolled in a formal degree program at Nevada State College to attend the field school. Students will complete a summer application. NSC is fully accredited; the field class is certificated by the Register of Professional Archaeologists.

Housing, Food and Transportation. All participants will stay at Mt. Trumbull, 2 hrs. by dirt road from the nearest town. Students must supply their own tent and sleeping bag since we will be sleeping outside on the grounds of the lodge. Participants will use the well-equipped kitchen and complete bathroom facilities of the Mt. Trumbull Lodge, a modern facility to be shared with BLM fire crews and other researchers during our stay. We will go once a week to St. George for food and laundry. A cook will help prepare food for us. Students are responsible for getting to either Las Vegas NV or St. George UT on their own; University vehicles will be used in the field.

Tuition and Fees. Tuition is estimated at \$100.00/credit for a total of \$400.00 for the 4 credit course (final tuition and fees will be established by the NSHE Board of Regents in spring 2007). There is also a \$30 application fee and a \$20 new student fee. A \$600.00 food and transportation fee is also required. Total cost is estimated as \$1,000.00 (US) for the 4-week session.

How to apply. The field school is open to all students regardless of major course of study or residency, and any qualified non-student. NOTE: ONLY US CITIZENS OR PERMANENT RESIDENTS MAY PARTICIPATE. Students interested in attending the field school must request an information and application packet by sending an e-mail request to paul.buck@nsc.nevada.edu or calling (702) 992-2620. Each applicant must ask a reference to provide a letter of recommendation. Enrollment is limited to 20 participants by available facilities. Applications received before the **deadline of April 1** will be given priority. Once students are accepted into the field school, they will be sent the Nevada State College enrollment form, the NSC registration form, and a medical information form. These must be returned before they can register for the field school.

For more information about the course and field school: Contact Dr. Paul E. Buck, 702-992-2620, Paul.Buck@nsc.nevada.edu, or Sachiko Sakai (sachikosak@aol.com, 562-985-2116 LA 5-157 C)