92nd Annual Meeting of the Pacific Division of AAAS

including the

7th World Congress on Mummy Studies

UNIVERSITY OF SAN DIEGO
San Diego, CA
12 – 16 June 2011

Examining the Past – Exploring the Present – Engaging the Future
The University of San Diego (USD) is a Roman Catholic institution of higher learning. Presently enrolling more than 7,500 students, it is known for its commitment to teaching, the liberal arts and the formation of values and community service. The university adds depth to education by inspiring students to grow spiritually, morally and socially.

USD’s 180-acre campus, Alcalá Park, sits atop a mesa overlooking San Diego’s Mission Bay and the Pacific Ocean. The university campus is a community treasure, with Spanish Renaissance inspired buildings and breathtakingly beautiful landscapes, including the spot where Father Junipero Serra celebrated the first Catholic Mass in Alta California more than 230 years ago. Like California’s oldest city, the university took its name from San Diego de Alcalá, a Franciscan brother from Alcalá de Henares, a monastery near Madrid, Spain. The Spanish Renaissance architecture that characterizes Spain’s five-century-old University of Alcalá serves as the inspiration for all buildings on the USD campus.

Under the leadership of Mother Rosalie Hill of the Society of the Sacred Heart and Bishop Charles Francis Buddy of the Diocese of San Diego, the University of San Diego began as separate colleges for men and women. Chartered in 1949, the first classes met in 1952 and the School of Law opened its doors in 1954. By the late 1960s it became clear that both colleges would benefit from combining academic resources. In 1972 the University of San Diego became a single coeducational university.

Now governed by a board of trustees independent from the founding organizations, USD welcomes students, faculty and staff of diverse religious traditions and remains dedicated to the values originally articulated by Mother Hill and Bishop Buddy.

San Diego
With a near-perfect climate, 70 miles of beaches, and mountains

see USD, page 4
Be sure to mark your calendar..... TODAY!

19 April.....
→ Abstracts for presentations at the 92nd Annual Meeting must be received by the appropriate section chair(s) and the Pacific Division office. See page 24 of this Newsletter for more information.
→ Last day to receive the best discounts on meeting registration fees – Advance registration forms must be in the Pacific Division office by this date. See page 27 of this Newsletter.

1 May.....
→ Completed proposal packets for student research awards from the AAAS, Pacific Division Alan E. Leviton Student Research Award Fund are due into the Pacific Division office by 5:00 p.m. Pacific Time. Incomplete packets or packets arriving after this time will not be considered. Additional information: http://associations.sou.edu/aaaspd/Students/StudentResearchGrants.html.
→ Completed proposal packets for student travel awards for this meeting are due into the Pacific Division office by 5:00 p.m. Pacific Time. Incomplete packets or packets arriving after this time will not be considered. Additional information: http://associations.sou.edu/aaaspd/Students/TravelGrants2010.html.

15 May.....
→ Deadline to request on-campus housing for the Annual Meeting. Please refer to pages 9 and 26 of this Newsletter for more information.

19 May.....
→ Last day to request a refund of meeting fees already paid. Please refer to “Registration,” on page 8 of this Newsletter.

31 May.....
→ Advance registration ends. Advance registration form must be in the Pacific Division office by this date. Starting 1 June, all registrations will be at the on-site rate.

Executive Director’s Report on the 177th National Meeting of AAAS
17 – 21 February 2011
Washington, D.C.

The 177th national meeting of AAAS was held this past 17 – 21 February at the Walter E. Washington Convention Center in downtown Washington, D.C., just a few blocks from AAAS headquarters. The meeting opened to unbelievably nice weather on Thursday and Friday (highs in the 70s), followed by a wind storm that knocked over the 30+ year old official White House Christmas tree. Meanwhile, inside the Convention Center and meeting hotels the program progressed at a nice clip.

Although many activities were scheduled on Wednesday and Thursday, the meeting was formally opened Thursday evening with the AAAS President’s Address, given by Alice S. Huang, Ph.D., President of AAAS 2010 – 2011 and Senior Faculty Associate in Biology at the California Institute of Technology. Her talk, aptly titled “Passions,” described four of her life-long passions: viral research (that resulted in the discovery of defective interfering particles in viral infection and pseudotyping of viral envelopes), international interactions among scientists and students, especially as it leads to science diplomacy, STEM (science, technology, engineering and mathematics) education at all levels, and opportunities for women and minorities in science. Following Dr. Huang’s talk was the President’s Reception, a lavish affair that allowed ample opportunities for renewing old friendships and networking.

The meeting included three and a half additional days of technical programs, special lectures, and other activities. Additional meeting details, including lots of audio and video content, can be found on the AAAS see NAT’L MEETING, page 5
DON'T FORGET...

TEACHERS K – 14
The first twenty K – 14 teachers to register in advance (meeting registration received no later than 31 May 2011) for this meeting will receive upon request a $75 stipend to help defray their costs to attend! This stipend is not available to those who register on-site for the meeting. A $75 check, if requested, will be included with your registration materials at the Pacific Division Meeting Registration Center.

PACIFIC DIVISION Seeks Judges for Student Presentations
Student presentation judges are being sought for both oral and poster presentations at the Pacific Division’s annual meeting. Previous experience evaluating student presentations is generally a requirement for individuals who haven’t previously judged at a Pacific Division meeting. Judges must be available for a judges meeting Sunday evening, 12 June, and be available to judge presentations Monday and/or Tuesday, 13 and 14 June. For additional information, please contact Roger Christianson, 541-552-6747 or rchristis@sou.edu. If you are interested in helping with this very important aspect of the annual meeting, be sure to mark the appropriate box on the Advance Registration Form (on page 27 of this Newsletter) and you will be sent an application form.

PACIFIC DIVISION Heads to Boise, Idaho in 2012
The Pacific Division will co-locate its 2012 meeting with the Snake River Section of the American Chemical Society at the Boise Convention Center in Boise, ID. The meeting, co-hosted by Boise State University, will take place 24 – 28 June. Mark your calendar now for this event and keep an eye on the Pacific Division web site, pacific.aaas.org, for additional details.

USD, from page 2
and deserts just a short drive away, San Diego draws more than 26 million visitors each year. Known for its countless year-round outdoor activities, San Diego is packed with unique pursuits in the water, on the trails and in the sky. The University of San Diego is just minutes from sailing, windsurfing, kayaking and a host of other water sports. All of the city’s beaches are ideal for surfing, body boarding, snorkeling or simply soaking up rays on sand warmed by the ever-present sun.

Hundreds of miles of trails and parks wind throughout San Diego County, ranging from oceanfront land to mountain pine forests, making it very easy to backpack, hike, camp or rock climb in a variety of elevations and environments. The Pacific Crest Trail, which works its way through 150 miles of San Diego backcountry in its trek from Mexico to Canada, is designated one of America’s National Scenic Trails.

San Diego has many attractions, including the world-famous San Diego Zoo and Wild Animal Park. Additionally, the 131-year-old Balboa Park is a 1,200-acre oasis in the heart of the city, complete with 15 museums, eight gardens and the acclaimed Old Globe Theatre. San Diego is also home to one of only three Olympic training centers in the nation. And its coastal waters offer an exceptional seasonal experience: a first-rate vantage point from which to witness the annual migration of gray whales from Alaskan seas to Mexican lagoons.

USD Students
Though the beach is nearby, USD is a serious academic institution. And while the campus itself is stunning, the people truly make the difference. More than 7,000 candidates vie for 1,000 freshman openings each year. The median incoming freshman holds a 3.72 GPA and an 1180 SAT score, yet each student is unique and selected on expressions of diversity, leadership, service, talent, and essential human character.

Of great significance to USD students are small class sizes; great, accessible faculty; and fantastic lab facilities. Students choose from more than 60 undergraduate and graduate degree programs in academic divisions, including the College of Arts and Sciences and the schools of Business Administration, Leadership and Education Sciences, Law, and Nursing and Health Science. The new Joan B. Kroc School of Peace Studies was inaugurated in 2007.

Natural Sciences at USD
The natural sciences at USD include four departments: Biology, Chemistry, Physics, and Marine Science and Environmental Studies. Curricula in the sciences are centered on the belief that students learn best when theoretical concepts are combined with hands-on experience. Students in the sciences take numerous lab and field courses, which provide opportunities to learn useful techniques and participate in the scientific process. Many students carry out research and perform internships that complement their formal course work. Interdisciplinary collaborations are common among faculty and students in different departments.
These interactions are enhanced by the inclusion of all four science departments in the new Donald P. Shiley Center for Science and Technology, which opened in 2003. The Center contains classrooms, offices, and modern labs that are used for teaching as well as faculty and student research. It is equipped with state-of-the-art instrumentation and equipment, including 500 MHz and 400 MHz nuclear magnetic resonance systems, a high pressure liquid chromatography – mass spectrometer, gas chromatography – mass spectrometry instruments, atomic analyzers, a nutrient analyzer, a bomb calorimeter, and a laser particle sorter. Microscopic resources include, among the usual assortment of compound and dissecting microscopes, scanning and transmitting electron microscopes and an atomic force microscope.

Several facilities were constructed for specialized functions, including a seawater system with two 2,000 gallon tanks, environmental chambers, aquarium room, a laser laboratory, and a greenhouse with five rooms with independent climate controls. Research and teaching collections include terrestrial and marine vertebrates, marine invertebrates, insects and an herbarium. A 16-foot research vessel is available for marine science investigations.

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For the past several years, AAAS has included Family Science Days as part of the weekend exhibit hall activities. This is a time when families are invited to visit the exhibit hall and many booths are set up

**Plenary and Keynote Talks at the 92nd Annual Meeting**

**Sunday, 12 June**
7:00 p.m. “NeuroEngineering: Evolution of Biopsychosocial Networks in Humans,” presented by Ishiro Nishimura, DDS, DMSc, DMD, FAP (School of Dentistry, University of California Los Angeles, Los Angeles, CA).

**Monday, 13 June**
12:15 p.m. “Journeying Through Stressed Urban Systems,” by H.J.S. Fernando, Ph.D. (Civil Engineering and Geological Sciences, and Aerospace and Mechanical Engineering, University of Notre Dame, Notre Dame, IN).

7:00 p.m. David R. Hunt, Ph.D. (Physical / Forensic Anthropologist and Collections Manager, Physical Anthropology Division Department of Anthropology, National Museum of Natural History, Washington, D.C.).

**Tuesday, 14 June**
12:15 p.m. “Vitamin D”, presented by John J Cannell, MD (Executive Director, Vitamin D Council, San Luis Obispo, CA).

Evening Following the presentation of student awards at the Student Awards Banquet, Dr. Alissa Arp (Dean of the College of Arts and Sciences, Southern Oregon University, Ashland, OR and President of the Pacific Division) will present the Presidential Lecture.

**Wednesday, 15 June**
8:45 a.m. Shirley Malcom, Ph.D. (Director, Education and Human Resources Programs, AAAS, Washington, D.C.) will give the Keynote Talk, “The Promise of Inquiry-Based Learning Beyond the Classroom,” in the symposium “Pathways to Science: Promoting Inquiry-Based Learning Beyond the Classroom.”

12:15 p.m. “Once and Future Giants: What Ice Age Extinctions Tell Us about the Fate of Earth’s Largest Animals,” Sharon Levy (Science writer, Arcata, CA).

More information about these talks may be found on page 14 of this Newsletter.

**web site, www.aaas.org. Simply click on the link “2011 Annual Meeting” on the left and you’ll be taken to additional links that allow you to access news from the meeting, listen to select talks, and even order audio files of any or all of the symposia and other presentations at the meeting.**

The exhibit hall was huge this year, filled with representatives of various government agencies (15 of the 17 National Laboratories were represented, along with NOAA, NASA, etc.), representatives of a variety of foreign institutions and governmental research programs, an assortment of book sellers, and a variety of other institutions and companies. As we have done for the last few years, the Pacific Division had a booth on AAAS Avenue. Manned by Angie Christianson, Pacific Division Executive Assistant, our goals again this year were two-fold: to advertise our up-coming annual meeting and to raise attendees awareness of the existence of divisions within AAAS. Not only did we have the best candy in the exhibit hall (as reported by many visitors), but many good contacts were made.

For the past several years, AAAS has included Family Science Days as part of the weekend exhibit hall activities. This is a time when families are invited to visit the exhibit hall and many booths are set up
by a variety of organizations and vendors to interest children in science. The Family Science Days occur on Saturday and Sunday of the meeting, are free of charge to the public, and are always well attended. This year, children of all ages and their parents were seen enjoying the booths and also taking in the wonders in the rest of the exhibit hall. In fact, even Dr. Alan Leshner, CEO of AAAS, was seen enjoying some time with his grandson, Gi deon, in the exhibit hall during Family Science Days.

As Executive Director of the Pacific Division, I again reported to the AAAS Board of Directors the activities of the Division during 2010 and plans for 2011. The reports of all of the Division directors were well received by the Board, and we thank them for their continuing support of the Divisions.

As a member of the AAAS Council, I also attended the Sunday morning Council meeting. Dr. Huang, in one of her last official duties as AAAS President before taking over as Chair of the Board of Directors, reported on Board activities this past year, including their focus on outreach, especially to students.

Dr. Leshner reported that William Press (University of Texas, Austin) was recently elected President-elect of AAAS. New Board members are Raymond Orbach (University of Texas, Austin) and Inder Verma (Salk Institute for Biological Studies). Dr. Leshner announced additional staffing changes, reported on finances for the past year and concluded by commenting that, all in all, 2010 had been a very good year. [N.B. AAAS Annual reports can be found at this web site: http://www.aaas.org/publications/annual_report/].

Bruce Alberts, Science Editor-in-Chief, reported on happenings with Science, noting that there are now four special issues published each year. The latest, DATA, was just published coincidentally with the national meeting. He highlighted the emphasis on education in Science by reminding Council members of the recently concluded contest to identify the best free web site that can be used as resources by teachers (one will be focused on each month in Science for 24 months), and also the current contest for teaching scientific inquiry via modules. More information on this can be found at this web site: http://www.sciencemag.org/site/feature/data/prizes/inquiry/. Note that applications for this award are due by 15 April 2011.

Mark Frankel (Scientific Freedom and Responsibility and Law Program) reported on Neuroscience and the Law activities, a series of seminars that AAAS has sponsored on emerging issues for judges. Thirteen of these have taken place since 2006, covering a variety of issues such as memory, violence, brain injuries, and the adolescent mind. More than 200 judges have participated and more than 50 scientists have helped with the program. Teaching materials related to these seminars are posted on this web site: http://www.ncsc.org/.

Following these and other reports, Alice Huang brought a report from the Committee on Sections for discussion. Three areas were included. FELLOWS: 1)
To examine the mechanisms of thrombin binding to blood clots, clots were formed in vitro by co-perfusion of reconstituted blood (platelets, red blood cells, and fibrinogen-deficient plasma supplemented with γA- or γˊ-fibrinogen) with Ca²⁺/Mg²⁺/tissue factor into capillary tubes. The role of γˊ-fibrinogen, containing the high affinity thrombin-binding site, in thrombin-clot binding was investigated by forming clots in the absence or presence of γˊ-fibrinogen, then post-labeling clots with fluorescently labeled (OG488) thrombin. As indicated in Figure 1, OG488-thrombin bound to clots formed with and without γˊ-fibrinogen, suggesting that the low affinity thrombin-binding sites on fibrinogen may play an important role in thrombin-clot interactions.

Thrombin is generated from its precursor, prothrombin, by factor Xa (FXa) mediated cleavage. To further elucidate thrombin-clot interactions, we investigated the localization of proteins involved in the generation of thrombin. Clots were formed by co-perfusion of sodium citrate anticoagulated human blood with Ca²⁺/Mg²⁺/tissue factor into capillary tubes. Following formation, clots were labeled with OG488-labeled coagulation factors in combination with AF647-labeled annexin A5, which binds with high affinity to exposed phosphatidylserine (PS) on the surface of highly activated platelets. Importantly, PS has been shown to provide Ca²⁺-mediated binding sites for coagulation factors to assemble. In confirmation of this, our data show that the labeling of OG488-FXa on clots substantially overlapped with PS-exposing platelets (Figure 2). To evaluate this quantitatively, the Pearson’s overlap coefficient, a value from -1 to +1 which ranks the pixel overlap of two fluorescent colors, was determined. Quantitatively, the overlap between annexin A5 and FXa was confirmed by a high Pearson’s overlap coefficient (Rr = 0.56). In parallel, when post-labeling was performed with prothrombin, strong overlap between prothrombin and PS-exposing platelets was observed, resulting in a Pearson’s correlation of 0.56 (Figure 2). In marked contrast, OG488-thrombin distributed over clots and fibrin fibers, with a low overlap (Rr = 0.10) with annexin A5 (Figure 2).

Together, these results point to an initial binding of prothrombin to PS-exposing platelets, after which it redistributes to the platelet-fibrin thrombus once cleaved into thrombin.

In December 2010, I defended my graduate thesis, earning my Ph.D. in Biomedical Engineering. My studies on the mechanisms of thrombin-clot interactions, supported by the AAAS, were integral to my thesis.
Should there be a yearly quota for three-fellow nominations? 2) Should individuals be required to be members of AAAS for at least some number of years before being considered for fellowship? 3) Should there be a limit on the number of nominations that one individual can sponsor in any given year? 4) Should there be more stringent requirements for three-fellow nominations? ELECTORATE NOMINATING COMMITTEES: 1) Should Steering Committee Members be formally polled by the ENC to get a list of potential candidates for consideration by the ENC (since Steering Committee Members are more familiar with those who have been active in section affairs)? 2) Recommendation that the ENC gives consideration to newly elected fellows as possible candidates for section offices. 3) Should the length of terms of office for section chairs be changed to, for example, Incoming Chair 1 year; Chair 2 years; Retiring Chair 1 year? BYLAW COMMITTEE: should a bylaw committee be created to periodically review the constitution and bylaws and to make recommendations for changes or updates? These topics engendered some discussion, but more input is requested. If you wish to comment on any of these issues, please send your thoughts to Gretchen Seiler, Director of Executive Office Affairs, gseiler@aaas.org.

Nina Fedoroff (AAAS President-Elect and CCA Chair) reported that there was considerable discussion on the Committee on Council Affairs as to the format of the annual meeting and how to make it more accessible. The committee hopes to have some experiments to discuss at the Vancouver meeting.

Following all of these reports, the floor was opened for new business. The main topic of discussion centered on the possibility of providing free AAAS memberships to scientists in Haiti and holding a meeting there within the next year to discuss earthquakes and other topics of immediate interest. Dr. Leshner pointed out that free access to Science Magazine On-line is already provided to scientists in several third world areas, including Haiti. Jorge Colón reported that the Caribbean Division had moved into Haiti shortly after the earthquake and has taken a lead in helping them. Also, they have already given ten AAAS memberships to scientists in Haiti. For more on this, please contact Dr. Colón, jcolon@uprrp.edu. And that just about wrapped things up for another year!

-Roger Christianson
Executive Director, AAAS Pacific Division

REGISTRATION

All persons planning to attend the meeting should use the Advance Registration Form on page 27 in this Newsletter to pre-register in order to receive the best registration rate. On-site registration will be available, but with higher fees. Early advance registration fees (through 19 April) for the full meeting are $90 for professionals; $45 for retirees/emeritus and current post-docs; $30 for current students, spouses/family members of registrants, and unemployed individuals. K-12 and community college teachers are encouraged to attend the meeting for a reduced professional registration fee of $45. Advance one-day professional registration is available for $65. Program organizers and presenters registering in the professional category may purchase a full-meeting professional registration at the reduced, one-day rate of $65. To be eligible for this discount, the individual must be listed as an organizer/co-organizer of a program or have submitted an abstract for presentation at the meeting that has either been approved or is pending approval. Be sure to include this information on your registration form. After 19 April, higher registration fees will be charged: full-meeting professional, $105; program planners/presenters, $75; K-12, community college teachers, post-docs,
The World Congress on Mummy Studies

The World Mummy Congress is an outgrowth of scientists involved in mummy studies who decided that an exclusive venue for such studies would benefit the Medical and Anthropological communities. To date, six World Congresses on Mummy Studies have been held:

1992 was the inaugural meeting, in Tenerife, the Canary Islands, Spain. More than 300 persons attended the event, which was organized in different parallel sessions: Guanche Mummies’ Bioanthropology, Paleopathology, Research Methods, Museology, Conservation, Mummification, and Free Communications. Participants attended the opening of the exhibit, “Mummies, the Secrets of the Past,” which featured mummies and related archaeological artifacts from the Canaries, Egypt, Colombia, Chile, Peru, Ecuador, Bolivia, the United States, and other parts of the world.

1995 moved to Cartagena, Colombia. More than 200 persons attended the meeting, which was organized in two parallel sessions that included the History of Research in Mummies, Paleogenetics, Bioanthropology of Chinchorro Mummies, Mummies and Ancient Parasitism, Arctic Mummies, Medicine and Diet: The Mummy’s Perspective, Paleoimaging in Ancient Mummies, and Free Communications.

1998 the group met in Arica, Chile. Two hundred persons attended the symposia, which were arranged in a single sequence and included Mummy Paleopathology, the Study of Human Hair and Archaeology, Human Sacrifices in High Elevation Shrines, Clothing and Iconography of the Dead, Coprolites, Diet, and Parasitological Studies of Mummies, Animal Mummies, Mummies and DNA Studies, Archaic Mortuary Patterns in South America, Plants for the Dead, Syphilis in the Americas, Conservation of Human Mummified Remains, Contemporary Andean Mortuary Rituals, Mexican Mummies, and Free Communications.

2001 saw the meeting move to Nuuk, Greenland. Nearly 200 people attended the event, which was organized into one session divided into different symposia, including Greenland and Arctic Archaeology, Greenland and Arctic Mummies (a symposium in memory of Jens Ped er Hart-Hansen), Mummification Methods, Bog Bodies, Hair in Archaeology, Conservation and Museology, Paleopathology, Applied Technology and Analytical Methods, Mortuary Archaeology, Mummies from Mount Llullallaco (Argentina), and Free Communications. The attendees were also able to see the famous mummies from Qilakitsoq, at the Greenland National Museum.

2004 was in Torino, Italy. More than 200 attended symposia covering the topics of Applied Technology in Mummies, Paleoparasitology, Methods of Mummification, Funerary Archaeology, Conservation of Mummies and Mummies in Museums, Frozen Mummies, Forensics, Tattoos, Hair and Teeth, Mummies and the Public, and a symposium drawing attention to specific developments around the world, in this case, Advances in Mummy Studies in Brazil. The highlight was the visit to the Egyptian Museum, with its incredible cache of artifacts and mummies.

2007 Lanzarote, Canary Islands, Spain. Some 300 attendees were present at symposia including Conservation of Mummies, Museums, Funerary Archaeology, Beliefs and Funerary Rituals, Problems about recovering mummified remains, Paleopathology and Parasitology, Applied Technology, Hair, and Paleodiets, Subadult Mummies, Mummies of Mexico, Mummies of Altamira Cave and High Mountain Archaeology, and Mummies in the Andes.

This 7th Congress is the first held in the United States. Having the venue in San Diego will focus attention upon ethical concerns about the study and handling of mummies. Ethical issues have always been discussed at the congresses, and probably no one better understands and respects these issues than Congress participants. These are the people who locate, excavate, handle, conserve and study the mummies. But these issues are quite delicate in the US, due to the Native American Graves and Protection and Repatriation Act (NAGPRA) and the many political and judicial issues emphasized by Native American groups at both national and regional levels. As such, having the Mummy Congress in the US will be a chance to not only present scientific data for a larger community, but also to show that mummies are indeed handled with respect, and that these issues are taken seriously by all. This underscores the founding principle of the Mummy Congresses: that we learn so much about ourselves, our ancestry, and our cultural history by investigating mummies.

The 8th Congress is planned for Rio de Janeiro in 2013. The venue will be FIOCRUZ (Fundación Oswal÷o Cruz) at the Escola Nacional de Saúde Publica (National School of Public Health).
rooms, with one or two residents per room. Each resident is provided a twin bed, chest of drawers, desk and desk chair and most of the rooms have parquet flooring. Rooms have wireless internet access. Showers and restrooms are located in typical dorm fashion, down the hall. Laundry rooms and vending machines are available. A lounge with cable TV and computers is located in the hall. The University Alcohol Policy designates Founders as a no alcohol living area regardless of age or class status.

If you are an individual and would like to request double housing, we will be pleased to assign you a same gender roommate. Please be sure to note this on your housing application form.

Room/board charges: The basic housing package includes the nights of Sunday, Monday and Tuesday, 12 – 14 June. Additional nights on either side of the three night package may also be purchased individually, allowing one to stay on campus from Friday, 10 June until Saturday, 18 June. Each night includes an $8 food credit to be spent on campus at any of the eateries, such as Bert's Bistro, La Paloma, La Gran Terraza, Pavilion Dining, Aromas, etc.

Cost of three night housing package (includes $24 on-campus food credit):
  - Double: $183 per person
  - Single: $234

Cost of additional nights on either side of the three night package (includes $8 on-campus food credit per night):
  - Double: $61 per person per additional night
  - Single: $78 per additional night

Parking for those staying on campus: The cost of parking is $3.00 per day, and can be purchased at the time you request your housing (see housing form on page 26 of this Newsletter.)

**LOCAL HOTELS AND MOTELS**

San Diego boasts many fine hotels of all qualities, many of which can be accessed for reservations through web sites such as expedia.com or hotels.com.

The three hotels listed below have entered into agreements with the Pacific Division to provide meeting attendees special rates and benefits. If you choose to stay at one of these establishments, please make your reservations directly with the hotel of your choice. The listings are in order of proximity to USD and not in order of any preference on the part of the Pacific Division. Note that taxes (currently 12.5%) will be added to the listed room rates.

**Hampton Inn San Diego Airport/Sea World**

*Address:* 3888 Greenwood Street, San Diego, CA.
*Telephone:* 619-299-6633.
*Reservation web site:* https://reservations.ihotelier.com/crs/g_reservation.cfm?groupID=469223&hotelID=6542
*Rate:* $79 (1 to 4 persons); identify yourself as part of the American Association for the Advancement of Science (AAAS) meeting at the time you call to get this rate or book on-line at the above reservation web site.
*Dates available:* 11 June – 16 June (plus three days before and after, subject to availability).
*Cutoff date for reservations:* 11 May 2011

**Days Hotel**

*Address:* 543 Hotel Circle South, San Diego, CA
*Telephone:* 1-800-227-4743 or 619-297-8800
*Hotel web site:* www.dayshotelhc.com
*Reservation web site:* https://reservations.ihotelier.com/crs/g_reservation.cfm?groupID=469223&hotelID=6542
*Rate:* $92 (1 to 4 persons); to get this rate, identify yourself as attending the AAAS, Pacific Division meeting at the time you call or book on-line at the above reservation web site.
*Dates available:* 11 June – 16 June (plus three days before and after, subject to availability).
*Cutoff date for reservations:* 21 May 2011

**Proximity to meeting:** 2.2 miles

**Amenities:**
- complimentary hot breakfast
- complimentary parking
- complimentary high speed internet
- complimentary airport shuttle

**The Dana on Mission Bay**

*Address:* 1710 W. Mission Bay Drive, San Diego, CA
*Telephone:* 1-800-445-3339 or 619-222-6440
*Hotel web site:* www.thedana.com
*Reservation web site:* www.thedana.com; click on “Reservations,” then “Groups,” and enter the following Attendee Code in the Attendee Login screen: 0611AMASAS.
*Rate:* $129 (1 – 4 persons); identify yourself as part of the American Association for the Advancement of Science Pacific Division at the time you call to get this rate or book on-line at the above reservation web site.
*Dates available:* 11 June – 16 June (plus three days before and after, subject to availability).
*Cutoff date for reservations:* 12 May 2011

**Proximity to meeting:** 4.5 miles

**Amenities:**
- complimentary airport shuttle (6:00 a.m. – 10:00 p.m. by calling 619-297-8800 from the baggage claim area
- complimentary overnight parking
- complimentary continental breakfast for up to 4 people per room
- complimentary shuttle service (limited basis) to and from USD campus
- complimentary high speed internet
- complimentary parking
- complimentary hot breakfast

**Travel to University of San Diego**

*By Automobile from the North:* Use I-5 South, exit Sea World Dr. and Tecolote Rd. Proceed left at stoplight toward Morena Blvd. Turn right onto Morena, left onto Napa, and left onto Linda Vista Rd.

*If you are coming onto campus for the meeting, turn left at the first stoplight, into USD’s west entrance. Proceed past the guard booth to the
Scientists Getting Engaged in Human Rights: 
A Multiplicity of Options

Traditionally considered the domain of lawyers and political scientists, human rights are increasingly finding their way into STEM curricula, scientific organization meeting agendas, and codes of ethical scientific conduct. At the same time, a growing number of scientists and engineers are recognizing the value of their expertise, their tools and their techniques for addressing human rights challenges.

Since 1977, the AAAS Science and Human Rights Program has been dedicated to bridging the human rights, and the scientific and engineering communities. The Program has gained prominence for its work in supporting the forensic exhumation of mass graves in Guatemala, the Balkans and elsewhere; the use of DNA evidence to identify victims of mass killings in Bosnia; and most recently the use of geospatial image analysis to document the mass destruction of villages in Darfur and other remote parts of the world, among other projects.

The Program currently offers a broad spectrum of opportunities for scientists and engineers interested in contributing to human rights activities, whether through their work, voluntary activities, research or teaching:

• “On-call” Scientists: volunteer scientists interested in contributing directly to human rights projects are matched with human rights organizations requiring scientific input. Current needs include: an economist to advise on economic theories of “efficiency” as well as other economic concepts as they relate to government budget revenue and expenditures vis-a-vis human rights; another economist to evaluate potential funding mechanisms for a county-level health program consistent with the human right to health; physicians, psychologists and social workers to document torture and abuse in asylum cases; as well as DNA experts to support post-conviction claims of innocence. Additional economists and statisticians are required for other projects.

• Article 15 – the right to enjoy the benefits of scientific progress: recognized in binding international treaties, the right to enjoy the benefits of scientific progress has yet to be clearly defined and adequately applied. The UN began a process in 2007 to define this right and invited the participation of AAAS. The Program has begun engaging the STEM community in a project to define the right, identify barriers to its realization and opportunities for its potential application. Information is being sought through a questionnaire aimed at eliciting discipline-specific input. Individuals as well as scientific and engineering societies are invited to participate in this process which will lead to the submission of findings to the UN.

• AAAS Science and Human Rights Coalition: a network of scientific membership organizations that recognize a role for science and scientists in human rights, the Coalition works to address issues at the intersection of science and human rights, including the welfare of scientists, the relationship between science ethics and human rights, and education. Individual scientists are welcome to join the Coalition, or encourage their association to come on board. The Coalition meets in January and July at AAAS Headquarters. There are no membership dues;

• Human rights modules for STEM curricula: through the education and information resources working group of the Coalition, the Program has begun a process to develop human rights modules for incorporation into STEM curricula at the undergraduate level. We seek interested professors who will work with us to develop a module for their class, including background readings, a discipline-specific human rights case study, discussion questions, problems and projects.

Additional information about the AAAS Science and Human Rights Program can be found at http://shr.aaas.org or by writing to me at jwyndham@aaas.org.

-Jessica Wyndham, Senior Project Director
AAAS Science and Human Rights Program
left turn into the West Marian Way Parking structure, number 2 on the campus map found on page 31 of this Newsletter. The parking fee will be announced in the April Newsletter. Trams regularly transport people to the top of the hill and the Kroc Institute for Peace and Justice (IPJ), where the Registration Center is located. Alternatively, you can walk the hill, but it could be a strenuous hike. To let someone off at the top, pass the turn into the parking structure and follow the road to the second stop sign. Turn right and pull up in front of IPJ, by the La Paloma food bar. You can then retrace your route back down the hill and turn right into the parking structure.

• If you are going to your on-campus housing in Founders Hall, turn left at the first signal and follow the above directions to the top of the hill. Founders Hall is located on the left side of Marian Way, past IPJ. You can park your automobile near Founders Hall for unloading before parking in the West Marian Way Parking. The parking fee is $3.00 per day.

By automobile from the South (or the airport): Use I-5 North, exit Morena Blvd. (signs will say: Morena Blvd. use I-8 East). Stay to the right and follow the signs for Morena Blvd. Once on Morena, take the first right onto Linda Vista Rd.

• If you are coming onto campus for the meeting, turn left at the second stoplight, into USD's west entrance and follow the directions in the third paragraph above this.

• If you are going to your on-campus housing in Founders Hall, turn left at the second signal and follow the directions in the third paragraph above this.

By Automobile from the east: Use I-8 West, exit at Morena Blvd, turning right. Once on Morena, take the first right onto Linda Vista Rd. and follow the directions above under “By Automobile from the South.”

By Air: San Diego is served by several major carriers. The airport is about a ten minute taxi ride from campus. Expect to pay about $15.00 for the taxi fare. Alternatively, you can rent a car at the airport and follow the above directions to USD.

**On-Campus Parking**

On-campus parking will be available in the West Marian Way Parking. Cost is $3 per day. Persons staying on campus in Founders Hall should plan on parking in this parking lot (#2 on the campus map, page 31 of this Newsletter).

**Registration Center**

The Registration Center will be in the lobby of the Joan B. Kroc Institute for Peace and Justice building (see #12 on the campus map, page 31 of this Newsletter). Hours of operation are expected to be as follows:

- **Saturday:** 5:00 p.m. – 6:45 p.m.
- **Sunday:** 8:00 a.m. – 5:30 p.m.
- **Monday:** 7:30 a.m. – 4:30 p.m.
- **Tuesday:** 7:30 a.m. – 4:00 p.m.
- **Wednesday:** 7:30 a.m. – 4:00 p.m.
- **Thursday:** 7:30 a.m. – 2:00 p.m.

**MEETING ROOMS**

This year’s technical sessions will meet primarily in the Joan B. Kroc Institute for Peace and Justice (#12 on the campus map, page 31 of this Newsletter), but may also make use of rooms in the Shiley Center for Science and Technology (#17 on the campus map on page 31 of this Newsletter) and Camino Hall, location of the Shiley Theater (#16 on the campus map on page 31 of this Newsletter). Parking structures are numbers 2 (West Marian Way Parking–closest to meeting site) and 48 (Mission Parking–much further from the meeting site). All meeting rooms are equipped with LCD projectors and computers running Windows XP and Microsoft Office 2007. Speakers requiring other specialized equipment such as slide or overhead projectors must make their requests known when they submit their abstracts. If available, specialized equipment will be provided. If rental costs are incurred, payment will be the responsibility of the requester. The meeting rooms and times of presentations for the program will be published in the “Program with Abstracts” issue of the Proceedings (Vol. 30, part 1), which will be given to those who register for the meeting. Speakers may obtain final confirmation of the time and place of their presentations by visiting the Pacific Division web site (pacific.aaas.org) starting no later than 1 June 2011. Symposium planners will provide this information to their presenters in advance of this date.

**Computers and PowerPoint Presentations**

Meeting rooms at the University of San Diego are outfitted with computers running Windows XP and PowerPoint 2007, connected to standard data projectors. If you are planning to use PowerPoint for your presentation, you must make sure that it will run on the Windows platform. Only CD-ROMs and thumb/USB/flash drives may be used to load presentations onto the computers. If you are preparing your presentation on a Macintosh computer, make sure it will load to a computer running Windows XP.

Should a presenter wish to bring their own laptop computer for their presentation, it will be possible to connect the laptop directly to the LCD projector via a VGA port. It is the responsibility of presenters doing this to make sure that they bring any needed adapters to connect their computers to the VGA cable of the LCD projector.

**Call for Papers and Abstracts**

Members of AAAS and its affiliated societies, students, teachers, and other scientists are encouraged to participate in the annual meeting by presenting papers. Those wishing to present an oral or poster paper at one of the sessions should follow the instructions on page 24 of this Newsletter (Call for Papers and Abstracts) and submit their abstracts via e-mail as Microsoft Word attachments to the chair (and co-chair) of the appropriate Society or Pacific Division Section and also to the Pacific Division office. See page 23 of this Newsletter for the list of societies and sections and their chairs/co-chairs. Be sure to include the word ABSTRACT and your last name in the subject line of the e-mail submission and don’t forget to also copy the Pacific Division office (rchristi@sou.edu) on all submissions. Doing this will ensure that you will receive an automatic e-mail reply confirming your submission. Please note: the deadline for receipt of abstracts is 19 April 2011. Submissions will be given their final reviews in late April, with decisions regarding ac-
ceptance being sent via e-mail shortly thereafter. If you would like to discuss your submission with the chair of the section to which you are submitting it, please refer to page 23 of this Newsletter for the list of contact information. If your abstract contains special characters, fax a printed copy with the special characters clearly marked and notations indicating the font used to the Pacific Division office, 541-552-8457, in addition to submitting it via e-mail.

**STUDENT AWARDS FOR EXCELLENCE**

The AAAS, Pacific Division offers each affiliated society and section participating in the annual meeting the opportunity to recognize outstanding student participants through the presentation of Awards of Excellence and cash prizes of $150 for first place and $75 for second place. Additionally, each winner receives a one-year student membership in AAAS, which includes weekly issues of Science magazine. Societies often supplement these awards with their own cash prizes.

In 2011, seven Division-wide awards may be available: Laurence M. Klauber Award for Excellence (unrestricted); Geraldine K. Lindsay Award for Excellence in the Natural Sciences; J. Thomas Dutro, Jr. Award for Excellence in the Geosciences; Presidents Award for Excellence (unrestricted); Rita W. Peterson Award for Excellence in Science Education; Best Poster Award (for posters only but otherwise unrestricted); and the AAAS Robert I. Larus Travel Award, which will provide a reimbursement for travel and other meeting-related expenses up to $750 for the awardee to attend the national meeting of AAAS in Vancouver, British Columbia, 16–20 February 2012 for the purpose of presenting their winning presentation as a poster. The Klauber, Lindsay, Dutro, Presidents, Peterson, Best Poster, and Larus awards are given to those students whose presentations are judged the most significant in the advancement or understanding of science.

To be eligible for a sectional award or one of the Division-wide awards, a student must be registered for the meeting prior to judging, present the paper or poster, and be the principal research investigator. Student presentations, oral and poster, are judged on their abstracts, content, style of delivery or presentation, and audiovisual aids and/or handouts (if used). The evaluation forms for both oral and poster presentations are posted on the Division’s meeting web page (http://associations.sou.edu/aaaspd/2011SANDIEGO/index.html). Students who are eligible for Awards of Excellence are invited to be guests of the Division at the annual Banquet Tuesday evening, 14 June. Festivities that evening include the presentation of student awards. If you are one of these students, please be sure to fill in the appropriate boxes on the Advance Registration form to let us know you will be attending the dinner.

**IMPORTANT NOTE:** All judging for student awards ends no later than 3:00 p.m. on Tuesday, at which time the judges go into closed session to determine the winners. If you are a student wishing to compete for an Award of Excellence and your oral symposium presentation is scheduled to end later than 3:00 p.m. Tuesday, you must, in addition to presenting orally as part of the symposium, prepare a poster for presentation at a poster session earlier in the week. That way your presentation will be judged and you will be in the pool of potential prize winners. This may only occur if your presentation is part of a symposium. All oral contributed paper sessions are scheduled to ensure that student presenters are judged prior to the cut-off on Tuesday afternoon.

**SPECIAL EVENTS**

The following special events are planned for the meeting.

**Sunday Evening Public Plenary Lecture. NeuroEngineering:** Evolution of Biopsychosocial Networks in Humans, presented by Ishiro Nishimura, DDS, DMSc, DMD, FAP (School of Dentistry and Medicine, University of California Los Angeles, Los Angeles, CA).

**Sunday Evening Welcome Reception.** Immediately following the plenary lecture, and hosted by the Pacific Division and its affiliated societies and sections, all registrants and their families are invited to enjoy the conviviality of this event on 12 June, starting about 8:00 p.m. and running to about 9:15 p.m. A selection of soft drinks, chips, pretzels and good conversation will be available. Please wear your registration badge.

**Monday Noon Public Lecture.** Harindra (Joe) Fernando, Ph.D. (Civil Engineering and Geological Sciences, and Aerospace and Mechanical Engineering, University of Notre Dame, Notre Dame, IN) will talk on tsunamis and storm surges, referring to the Indian Ocean Tsunami, Hurricane Katrina and sustainability of communities.


**Monday Evening President’s Reception.** 13 June at 8:00 p.m. University of San Diego President Mary Lyons will welcome conference attendees at an informal hosted reception from 8:00 p.m. – 9:15 p.m. All registrants and their families are invited to enjoy this relaxed occasion. Non-registered family members are welcome, but must be accompanied by a registrant. Please wear your registration badge.

**Tuesday Noon Public Lecture.** Vitamin D, presented by John J. Cannell, MD (Executive Director, Vitamin D Council, San Luis Obispo, CA).

**Tuesday Evening Student Awards Banquet.** Tuesday evening will be an exciting time for students as Division representatives will announce the names of student winners of sectional Awards of Excellence and also winners of the Division’s Laurence M. Klauber Award for Excellence (unrestricted), Geraldine K. Lindsay Award for Excellence in the Natural Sciences, J. Thomas Dutro, Jr. Award for Excellence in the Geosciences, Rita W. Peterson Award for Excellence in Science Education, the President’s Award for Excellence (unrestricted), the Best Poster Award (for poster presentations only but otherwise unrestricted), and the AAAS Robert I. Larus Travel Award.

**Tuesday Evening Student Awards Banquet.** The evening is planned to begin at 6:15 p.m. with a reception. Dinner service will begin around 7:00 p.m. After dinner will be the presentation of student awards, followed by the Presidential Lecture, presented by Dr. Alissa Arp (Dean, College of Arts and Sciences, Southern Oregon University and President of the Pacific Division). The evening should end by about 9:30 p.m.

Banquet attendees can choose between three entrées: Gnocchi, Black Cod and Osso Bucco Milanese. The Gnocchi is a vegetarian offering, made of thick, soft potato pillows that almost resemble dumplings and covered with asparagus tips, artichokes and sun-dried tomatoes and a white wine sauce. The Black Cod is served on a bed of borlotti bean ragout infused with thyme and preserved lemon. The Osso Bucco Milanese is a cross-cut veal shank, served with vegetables and broth. All entrées will come with a baby spinach salad, fresh vegetable, Chef’s choice of starch, butter and rolls, coffee, tea, iced tea and water. Dessert will be New York cheesecake, topped with vanilla Anglaise and seasonal berries. Please note that details may change as we approach the banquet date. If a substitution must be made, every effort will be
made to insure that the replacement is comparable to that which is listed above. Banquet tickets are $40 each and may be purchased on the Advance Registration Form (see page 27 of this Newsletter). The deadline for ordering banquet tickets is 31 May 2011, the close of advance registration for the meeting.

Students in competition for Awards of Excellence are invited to be guests of the Division for this event. Be sure to check the appropriate box on the Early Registration Form (see page 27 of this Newsletter) indicating your plans to attend and you will be provided a ticket at no cost. Note that if you request a complimentary ticket we expect you to attend the banquet. Please don’t dishonor the Division’s generosity in offering you this opportunity to fully participate in the meeting with minimal out-of-pocket expenses by asking for a ticket and then not showing up!

Wednesday Morning Business Meeting of the Council of the Pacific Division. The Council of the AAAS, Pacific Division will hold its annual breakfast and business meeting at 7:00 a.m. on Wednesday, 15 June. The Council will elect officers, Executive Committee and Council members, discuss programs for the 2012 and 2013 annual meetings, and transact such other business as is required by the Division’s By-Laws. This is an open meeting and Pacific Division members with an interest in the governance of the Division are invited to attend.

New. Wednesday Noon Public Lecture. Once and Future Giants: What Ice Age Extinctions Tell Us about the Fate of Earth’s Largest Animals, Ms. Sharon Levy (Science writer, Arcata, CA).

New. Wednesday Evening Reception. Please refer to Field Trip #4 on page 15 of this Newsletter.

The following public lectures are planned. Additional ones may be scheduled as time permits. All members of the public are invited to attend these lectures at no charge (except for the Presidential Lecture, for which there is a charge to attend the banquet—see “Tuesday Evening Student Awards Banquet” in the preceding section of this Newsletter).

Sunday Evening Plenary Lecture. 12 June, 7:00 p.m. “NeuroEngineering: Evolution of Biopsychosocial Networks in Humans,” presented by Ishiro Nishimura, DDS, DMSc, DMD, FAP (School of Dentistry and Medicine, University of California Los Angeles, Los Angeles, CA).

Monday Noon Public Lecture. 13 June, 12:15 p.m. H.J.S. Fernando, Ph.D. (Civil Engineering and Geological Sciences, and Aerospace and Mechanical Engineering, University of Notre Dame, Notre Dame, IN) will talk about tsunamis and storm surges, referring to the Indian Ocean Tsunami, Hurricane Katrina and the sustainability of communities.


Tuesday Evening AAAS, Pacific Division Presidential Lecture. Following the presentation of student awards at the Student Awards Banquet, Alissa Arp, Ph.D. (Dean of the College of Arts and Sciences, Southern Oregon University, Ashland, OR and President of the Pacific Division) will present the Presidential Lecture.

New. Tuesday Noon Public Lecture. 14 June, 12:15 p.m. Vitamin D, presented by John J. Cannell, MD (Executive Director, Vitamin D Council, San Luis Obispo, CA).
FIELD TRIPS

All field trips are open to meeting registrants and their families. At least one member of a group must be registered for the meeting. Unregistered family members will be charged an additional one-time-only $10 field trip registration fee. This fee is paid only once for this meeting, regardless of how many field trips a non-registered participant participates in.

Due to limited space, advance registration is required for all field trips. Reservation and payment of field trip fee(s) are included on the Advance Registration Form (see page 27 of this Newsletter).

A full refund will be granted if a trip is cancelled by the Division. If a registrant cancels via e-mail or written notification received in the Pacific Division office no later than 19 May 2011, the registrant will receive a refund of the fee(s) paid less a $15 processing fee. If paid by credit card, an additional 3.5% of the original charge will be deducted from the amount being refunded to help pay for fees charged to the Division by credit card companies. With the exception of the Division cancelling a field trip, no refunds will be granted after 19 May.

(1) Sunday, 12 June: 10:00 a.m. – 4:00 p.m. *San Diego Coastal Geology and Hazards.* Organized by Elizabeth Baker Treloar and Eric Cathcart (Department of Marine and Environmental Sciences, University of San Diego, San Diego, CA), this three-quarter-day field trip along the beautiful San Diego coastline will focus on the sedimentary rocks that record 65 million years of geologic events. The Rose Canyon Fault Zone, the geologic hazards of the coastal region, and the potential threat of the southern San Andreas Fault will be addressed.

The field trip will stop first at Mount Soledad in La Jolla, then progress south to Sunset Cliffs in Point Loma, and finish with a stop at scenic Cabrillo National Monument.

Weather can be cool and foggy on the coast, so plan to bring a jacket or, even better, layer your clothing. Tidepools at Cabrillo Rocks can be wet and slippery, so be sure to wear good shoes—no heels or flip flops!

Includes transportation, field guide, and box lunch. Cost: $70.

(2) Thursday, 16 June: 9:30 a.m. – 3:30 p.m. *Come See the Wonders of the Fairs: A Walking Tour.* Organized by Don Larson and Tammy Lau (Madden Library, California State University Fresno, Fresno, CA; tammyl@csufresno.edu), this walking tour of the remnants of San Diego’s world’s fairs will be a lively and entertaining “visit to the fairs,” imagining them as they once were by seeing the legacies of the fairs.

The early-morning field trip will be led by intertidal ecologists from the University of San Diego. The late-afternoon field trip will include a post-field question and answer session with the Park Ranger. This is a rare chance to visit the Cabrillo National Monument when it is normally closed to the public.

Due to the nature of this walking tour, be sure to wear comfortable shoes! Depending on the weather, a jacket may also be needed. Limited to 27 participants. Cost: $25.

(3) Sunday, 12 June: 9:00 a.m. – 3:00 p.m. *San Diego Botanic Garden.* Organized by Michael S. Mayer (Department of Biology, University of San Diego), this trip is an exploration of the San Diego Botanic Garden. Straddling a hill and 37 acres in the seaside town of Encinitas, the San Diego Botanic Garden (formerly Quail Gardens) harbors a wonderful diversity of plant communities, which are arranged thematically and geographically. Highlights include a stand of our local coastal sage scrub, old world and new world desert gardens, a bamboo collection, a subtropical fruit garden, and dozens of species of cycads and palms distributed throughout the various continental-themed sage scrub. Newer additions to the property include the Hamilton Children’s Garden, as well as numerous demonstration and interactive installations on topics such as Native Americans and native plants, and gardening for fire safety or water conservation.

We will leave the USD campus at 9:00 a.m. for the half-hour drive up the coast to Encinitas, location of The San Diego Botanic Garden. Upon arrival, we will take a guided walk around the gardens, ending with lunch (box lunches provided). After lunch there will be extra time for individual exploration before we leave the gardens at 2:30 p.m. for our trip back to campus.

Be sure to wear comfortable walking shoes and bring along a jacket in case of cooler weather, as Encinitas is on the coast.

Includes transportation, box lunch, and garden map and guide. Cost: $70.

(4) Wednesday, 15 June 5:30 p.m. – 9:30 p.m. *Museum of Man.* Sponsored by the Museum of Man in Balboa Park, this field trip includes a reception and a special viewing of a new exhibit – Modern Day Mummy: The Art and Science of Mummification. The exhibit features Mumab, a modern day mummy preserved using ancient Egyptian techniques. Mumab is on permanent loan to the Museum of Man from the University of Maryland.

Includes transportation, entry into the Museum of Man and reception. Cost: $15.

(5) Thursday, 16 June 4:30 p.m. – 8:15 p.m. *Tidepooling at Cabrillo National Monument.* Organized by Drew M. Talley (Department of Marine Science and Environmental Studies, University of San Diego, San Diego, CA). Wake up early and make the most of your last day at the meeting in San Diego by joining us for a sunrise visit to the Cabrillo National Monument. Home to the historic Old Point Loma lighthouse and a wealth of biodiversity, Cabrillo National Monument is a protected area of 65 hectares situated on the end of the Point Loma peninsula.

The early-morning field trip will be led by intertidal ecologists from USD and the National Park Service, and will include a copy of “The Life of Point Loma”, with chapters covering the marine, intertidal, and terrestrial habitats of the peninsula, as well as coffee and pastries during a post-field question and answer session with the Park Ranger. This is a rare chance to visit the Cabrillo National Monument when it is normally

Visit us at http://pacific.aaas.org
closed to the public!

Caution: you will be walking on slippery rocks and in shallow intertidal water. Please wear appropriate footwear and dress in layers!

Includes transportation, admission fees, field guide and refreshments. Cost: $55.00.

(6) Thursday, 16 June: 1:45 p.m. – 5:00 p.m. Mission Bay Aquatic Center Lesson in Sailing or Kayaking. Organized by Steven A. Murray (Department of Engineering, University of San Diego), this field trip provides a choice for beginners of two water sports opportunities on beautiful Mission Bay: sailing or kayaking. Each includes an hour or so of instruction, followed by on-the-water practice time.

Kayaking: 3-hour Kayak Lesson and Tour. Students will learn to kayak, then tour the coves of Mission Bay. Activities may include on-the-water kayaking games. All boats and equipment is included.

Sailing: 3-Hour Basic Sailing Lesson in 8’ single handed sabot. 1 hour classroom time with 1.5 hour on the water practice. All Equipment and instruction is included.

An area will be set up for participants to store belongings as a group, so you won’t be using the public locker room. Bring typical beach wear for the event (swim trunks or swimsuit, sandals and a beach towel) and a change of dry clothes for after the lesson. You will be wearing a wetsuit for the duration of the lesson to keep warm. Some individuals like to have a hooded sweatshirt to wear over the wetsuit if they get out of the water early, but most just wrap themselves in their towel.

Important notes:
1. You will be asked to sign a liability waiver at the Mission Bay Aquatic Center (MBAC) before you can participate in either event. Failure to sign the waiver will prevent your participation. No refund of fees will be made for failure to sign the waiver. A sample copy of the waiver form will be provided to participants.
2. Transportation to and from the MBAC is the responsibility of participants. Due to the high cost for bus rentals in the San Diego area, the Pacific Division will not be providing transportation for this event. It is up to participants to arrive at the MBAC in time to take care of the required paperwork before the beginning of the sessions at 2:00 p.m. We suggest you plan to arrive at least 15 minutes early, no later than 1:45 p.m. Directions to the MBAC will be provided to participants.

Includes all instruction and equipment. Does not include transportation to and from MBAC. Minimum five participants for each event. Cost: $35.

WORKSHOPS

ARTEFACT ANNOTATION – DEVELOPING AN ONTOLOGY TO HELP MINE DATASETS

One hour workshop organized by Ryan Metcalfe (KNH Centre for Biomedical Egyptology, University of Manchester, England). Currently scheduled for Thursday morning, 16 June.

Presented for discussion will be a preliminary ontology designed for use with ancient Nubian remains and artifacts, both to obtain feedback from the mummy studies community and to act as an example for those who may be interested in producing similar terminologies for their field. The supporting tools that are available when using an ontology will also be discussed in order to show how workflow can be improved. No fee.

Limited to twenty (20) participants. Please sign up for this workshop by checking the appropriate box on the back of the Advance Registration Form (page 28 of this Newsletter).

FIELD AND ADVANCED PALEOIMAGING

Half-day workshop organized by Ronald Beckett, Ph.D. (Professor Emeritus of Biomedical Sciences, Co-director, Bioanthropology Research Institute, Quinnipiac University, Hamden, CT; Ronald.beckett@quinnipiac.edu); co-organized by Gerald Conlogue, MHS (Professor of Diagnostic Imaging, Co-director, Bioanthropology Research Institute, Quinnipiac University, Hamden, CT; Gerald.conlogue@quinnipiac.edu). Currently scheduled for Thursday morning, 16 June.

This workshop is intended to give the participants an overview of the varied methods and technologies used in paleoimaging, with a focus on field and advanced applications. The workshop will demonstrate how the participants can maximize each paleoimaging modality in the field or lab setting. Additionally, this workshop will explore advanced imaging modalities and emphasize the importance of ‘Diagnosis by Consensus’. Several mini-lectures will present foundational information followed by four separate rotating stations. Two stations will provide the participants with the opportunity to gain practical hands-on skills and knowledge related to field photography and endoscopy. Two additional stations will focus on interpretation of paleoimaging data with an emphasis on differential diagnoses and age at death determination using dental paleoimaging data. Participants are asked to bring in their digital cameras and slides of their research/cases for group discussion and interpretation.

The target audience for this workshop is World Congress on Mummy Studies attendees. Participation of Anthropologists, Radiologists, and students of Mummy Sciences is encouraged.

The workshop will be conducted at the Museum of Man in Balboa Park, San Diego, CA. The workshop is limited to 40 participants. If you intend to participate in this workshop, be sure to sign up for it on the Advance Registration Form (page 27 of this Newsletter). Transportation is provided from the USD campus to Balboa Park and back. Cost: $20.

FINDING INFORMATION IN OPEN ACCESS JOURNALS

Half-day workshop organized by Amy Besnoy (Science Librarian, Copley Library, University of San Diego, San Diego, CA; abesnoy@sandiego.edu) and Pearl Ly (Natural Sciences Librarian, California State University San Marcos, San Marcos, CA; ply@csusm.edu). Currently scheduled for Monday afternoon, 13 June.

This half-day workshop follows the symposium, Don’t Sign Your Life Away: Author’s Rights, Scientific Publishing, Digital Repositories, and the Case for Open Access, and is a hands-on session on finding and accessing information in open access journals. Participants will learn how to utilize the Directory of Open Access Journals, Google Scholar, and PubMed to find full-text open access articles. In addition, search strategies and tips for efficient database searching will be discussed.

The workshop is scheduled to be held in Loma Hall 307 on the USD campus. Participants will have access to computers and will be encouraged to share topics of interest during the session. Participation is limited to twenty-four (24) individuals. Please sign up for this workshop by checking the appropriate box on the back of the Advance Registration Form (page 28 of this Newsletter).

VITAMIN D

Half-day workshop organized by John Cannell (Executive Director, Vitamin D Council, San Louis Obispo, CA). Currently scheduled for Wednesday morning, 15 June.

For the last ten years, the media has reported on hundreds of scientific studies on, what the New York Times called, “the nutrient of
the decade."

This workshop will present an overview of vitamin D with a focus on the three compelling aspects of vitamin D, influenza, autism, and athletic performance.

The manifold mysteries of influenza become less confusing when the epidemiology of vitamin D (the antibiotic vitamin according to Science News) is understood. In 2006, Dr. Cannell noticed an unusual pattern when an influenza outbreak swept through the hospital for the criminally insane where he worked. Workshop participants will review and discuss Dr. Cannell’s eventual paper in Epidemiology and Infection.

In 2007, the Vitamin D Council’s Newsletter published Dr. Cannell’s detailed theory of the controlling role that vitamin D deficiency plays in the etiology of the autism epidemic, the first time anyone had connected the numerous dots. Autism experts laughed until 2009, when Scientific American published a reworked version of the same theory. Workshop participants will review and discuss Dr. Cannell’s latest paper on autism and vitamin D.

Finally, workshop participants will understand the role that vitamin D plays in athletic performance. They will hear evidence that the 30-year domination of the Olympics by the East Germans and the Russians was not due to anabolic steroids but rather is related to the fact that German and Russian scientific literature of the 1950s demonstrated their understanding of the role vitamin D plays in physical performance.

Please sign up for this workshop by checking the appropriate box on the back of the Advance Registration Form (page 28 of this Newsletter).

**TECHNICAL SESSIONS**

**SYMPOSIA**

The following symposia are being planned for the annual meeting. Although most symposia are organized around invited papers, organizers often will consider adding one or more contributed papers if they are relevant to their programs. Should you wish to participate in one of these symposia, contact the symposium organizer directly. Should you wish to present a paper in one of the contributed paper sessions, refer to pages 23 and 24 of this Newsletter. Check the Division’s web site, pacific.aaas.org, for the latest information on symposia and other program events.

Please remember that at this time the listings contained herein are tentative and subject to change. If you plan to attend the meeting, for one symposium or technical session, check the Division’s web site for updates to the program or contact the Division office at 541-552-6869 or aaaspd@sou.edu to confirm the status of the session(s) before committing travel funds. If additional symposia are added to the program, they will be posted on the Division’s meeting web site.

*Note that symposia identified with the WCMS superscript are part of the program of the 7th World Congress on Mummy Studies. All meeting registrants are welcome to attend these or any other parts of the program of the Pacific Division Annual Meeting.*

**(1) WCMS** Applied Ethics of Ancient Mummy Research. Organizers: Niels Lyhnerup, M.D., Ph.D. (Department of Forensic Medicine, Laboratory of Biological Anthropology, University of Copenhagen, Denmark) and Frank Ruhli, M.D., Ph.D. (Institute of Anatomy, University of Zurich, Switzerland, Head of the Swiss Mummy Project). **Currently scheduled for Sunday, 12 June.**

This symposium includes presentations on the ethical considerations of mummy research and display from diverse viewpoints. The historical and theoretical backgrounds are covered, and an ethical framework will be proposed.

**(2) WCMS** Mummy Research in the Electronic Age. Organizers: S. J. Wolfe, M.L.S. (Senior Cataloger and Serials Specialist, American Antiquarian Society, Australia) and Jasmine Day, Ph.D. (Discipline of Anthropology and Sociology, University of Western Australia). **Currently scheduled for Tuesday, 14 June.**

This symposium covers the recent digitization of many 19th century periodicals that have revealed a flood of mummy fiction, including poetry, plays, and novels.

**(3) WCMS** Technical Studies on the Head of an Egyptian Child Mummy. Organizers: Anita Petty (Digital Operations, 3M Unitek, Albuquerque, New Mexico) and Marvin Rowe (Conservation Lab, Museum of New Mexico and Science Program, Texas A&M University). **Currently scheduled for Tuesday, 14 June.**

This symposium presents the results of analysis of the head of an Egyptian child mummy collected from Egypt during the 1920 Shelton Expedition. Included will be the chemical analysis of the resin on the wrapping, the radiocarbon dating by non-destructive plasma oxidation, and X-ray fluorescence of the head.

**(4) WCMS** State-of-the-Art Ancient Mummy Research. Organizers: Frank Ruhli, M.D., Ph.D. (Institute of Anatomy, University of Zurich, Switzerland, Head of the Swiss Mummy Project), Albert Zink (Head of the EURAC Institute for Mummies and the Iceman, European Academy of Bolzano/Bozen, Italy) and Niels Lyhnerup, M.D., Ph.D. (Department of Forensic Medicine, Laboratory of Biological Anthropology, University of Copenhagen, Denmark). **Currently scheduled for Wednesday, 15 June.**

Ancient mummies have been examined for centuries. The enormous ongoing advance of examination modalities allows researchers to expand their studies. The aim of this symposium is to review the current “gold-standard” for scientific studies of ancient mummies and to predict future developments, both in terms of examination standards as well as possible “high-end” single case methodologies. Presentations range from high-resolution imaging and histology to coprolites and stable isotopes.

**(5) WCMS** Imaging of Ancient Mummies. **Symposium withdrawn from program.**

**(6) WCMS** Mexican Mummy Studies. Organizers: Josefina Mansilla (Dirección de Antropología Física, Instituto Nacional de Antropología e Historia (INAH), México D.F., México, DF) and Ilán Leboreiro Wolfensohn, M.L.S. (Senior Cataloger and Serials Specialist, American Antiquarian Society, Australia) and Jasmine Day, Ph.D. (Discipline of Anthropology and Sociology, University of Western Australia). **Currently scheduled for Thursday, 16 June.**

Researchers from Mexico will cover the latest research on Mexican mummies in this symposium.

**(7) WCMS** Human Leishmaniasis in Mummified Remains: From Iconographical Sources to Modern Day Techniques Organizers: Prof. Dr. Andreas G. Nerlich (Institute for Pathology, Klinikum München-Bogenhausen, München, Germany) and Dr. Raffaella Bianucci (Laboratory of Criminalistic Sciences, Department of Anatomy, Pharmacology and Legal Medicine, University of Turin, Italy). **Currently scheduled for Tuesday, 14 June.**

This symposium includes an overview of the current microbiology of present-day leishmaniasis as both a local and systemic disease dependent on the parasite strain. Molecular investigations on modern strains will provide first clues as to the origin and potential evolution of the pathogens. The symposium includes presentations on the most recent findings of Old and New World leishmaniasis in mummies and skeleton-
ized human remains, shedding light on the distribution and strain differences during antiquity.

(8) **Human Experimental Mummification.** Organizers: Frank Ruhl, M.D., Ph.D. (Institute of Anatomy, University of Zurich, Switzerland; Head of the Swiss Mummy Project) and Christina Papageorgiou, Ph.D. (Research Assistant, Institute of Anatomy, University of Zurich). **Currently scheduled for Tuesday, 14 June.**

Artificial mummification methods have been developed in many parts of the world with that of the Ancient Egyptians being among the most successful. Nevertheless, little effort has been made to explore this process on an experimental basis. This symposium aims to present the results of a large project which tried experimentally to reconstruct the ancient Egyptian mummification method by applying evidence-based diagnostic criteria and state-of-the-art methodology, and to bring researchers together who have conducted similar experiments on animal and human tissues.

(9) **Alternative Energy. Symposium withdrawn from program.**

(10) **Geophysical Turbulance.** Organizers: Frank G. Jacobitz (Mechanical Engineering Program, University of San Diego, San Diego, CA; jacobitz@sandiego.edu), Harinda Joseph S. Fernando (Department of Civil Engineering and Geological Sciences, University of Notre Dame, Notre Dame, IN; Fernando.10@nd.edu), and Kai Schneider (Laboratoire de Modélisation et Simulation Numérique en Mécanique and Centre de Mathématiques et d’Informatique, Université de Provence, 39, rue Joliot-Curie, 13453 Marseille Cedex 13, France; kschnieder@cmi.univ-mrs.fr). **Currently scheduled for Tuesday, 14 June.**

Turbulent motion in the geophysical environment is important for transport and mixing processes of natural and anthropogenic quantities, including momentum, heat, nutrients, or pollutants. In turn, velocity shear, density stratification, and system rotation present in the geophysical system affect properties of the turbulent motion. This symposium invites participants from a variety of backgrounds and employing various techniques to share their insights into the dynamics of turbulence.

(11) **Panama Canal Expansion.** Organizer: Anne A. Sturz (Department of Marine Science and Environmental Studies, University of San Diego, San Diego CA; asturz@sandiego.edu). **Currently scheduled for Monday, 13 June.**

The Panama Canal is a cornerstone of the global transportation system, connecting the Atlantic Ocean to the Pacific Ocean across the Isthmus of Panama. The original canal was completed and opened for shipping in 1914. Thirteen to fourteen thousand vessels use the Canal every year. Commercial transportation through the Canal represents approximately 5% of the world trade. The Canal has a work force of approximately nine thousand employees and operates 24 hours a day, 365 days a year. The Panama Canal Authority is undertaking construction of new locks, new water reutilization basins, plus widening and deepening existing navigational channels. Anticipated completion of the Panama Canal Expansion is in 2014, marking the 100th anniversary of Canal operations. Speakers contributing to this symposium will discuss the history, geological parameters and sociological implications of the Canal.

(12) **7th Annual Symposium on Advances in Materials Science and Nanotechnology.** Organizers: Panos Photinos (Department of Chemistry, Physics, Materials Science and Engineering, Southern Oregon University, Ashland, OR; aaap@sou.edu) Shalini Prasad (School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, AZ) and Philip Collins (Department of Physics and Astronomy, University of California Irvine, Irvine, CA). **Currently scheduled for Monday, 13 June.**

Students and scientists working in areas of materials science and nanotechnology are urged to contact the organizer in order to discuss how they might present their research in this symposium.

(13) **Antarctic Ice Is Nice.** Organizers: Ronald S. Kaufmann and Anne A. Sturz (Marine Science and Environmental Studies Department, University of San Diego, San Diego CA; kaufmann@sandiego.edu and asturz@sandiego.edu). **Currently scheduled for Tuesday, 14 June.**

This symposium includes an examination of Antarctic ice and associated ecosystems. The impact of global warming on polar regions has been the subject of considerable recent research. In particular, warming in West Antarctica and the Antarctic Peninsula has been correlated with retreating glaciers, resulting in significant loss of ice mass over the past decade (Rignot et al., 2008). Antarctic glaciers have been accelerating (Pritchard and Vaughan, 2007), changing the dynamics of the continental ice sheet. In addition, ice shelves around the Antarctic continent have been breaking up, with increased occurrences of large icebergs originating from ice shelves in the Ross, Bellingshausen and Weddell Seas (e.g. Scambos et al, 2000; Bindschadler and Rignot, 2001; Ballantyne, 2002; Long et al., 2002). Changing ice cover and the increased production of icebergs can affect physical and biological processes on the Antarctic continent and in the Southern Ocean. Speakers contributing to this symposium will discuss distribution of Antarctic glaciers, subglacial lakes, sea ice, currents affecting ice transport, effects of icebergs on water column structure and biological communities in the Southern Ocean.

(14) **Fragile X Syndrome: Advances in Our Understanding of a Common Cause of Retardation and Autism.** Organizers: Veronica V. Galván (Department of Psychological Sciences, University of San Diego, San Diego, CA; vgvalvan@sandiego.edu) and Peter W. Vanderklish (Department of Neurobiology, The Scripps Research Institute, La Jolla, CA; pvanderk@scripps.edu). **Currently scheduled for Tuesday, 14 June.**

Fragile X syndrome is the most common inherited form of mental retardation and the leading known cause of Autism. Many affected individuals also suffer from anxiety, attention deficit, hyperactivity, obsessive-compulsive disorders, developmental seizures and subtle physical symptoms. These wide ranging symptoms are caused by the silencing of a single gene, denoted Fmr1. In unaffected individuals, this gene is active and produces a protein (FMRP) that regulates the de novo synthesis of hundreds of other proteins at synapses. Intensive, multidisciplinary studies of FMRP and synaptic dysfunctions that arise from its absence in Fragile X syndrome have provided exciting insights into the neural basis of this syndrome that may also apply to other causes of Autism. These efforts have led to candidate therapies while also advancing our basic understanding of the mechanisms that control neuronal excitability and synaptic plasticity. This symposium will provide a forum for scientists, teachers, students, and interested lay public to hear both an introduction to Fragile X from parents of affected children and a series of talks from scientists that will present some of the latest research in the field. Scientific topics will include the molecular basis of synaptic dysfunction in Fragile X syndrome, alterations in synaptic plasticity and aggregate neural activity, and potential therapeutic strategies. Further information and resources will be made available by the FRAXA Research Foundation, an organization founded by parents that funds Fragile X research and has been instrumental in advancing the field by supporting scientists to find a cure.

(15) **The Second Law of Thermodynamics: Status and Challenges.** Organizer: Daniel P. Sheehan (Department of Physics, University of San Diego, San Diego, CA; dsheehan@sandiego.edu). **Currently scheduled for Tuesday and Wednesday, 14 and 15 June.**

The second law of thermodynamics is considered one of the central principles of science, engineering and technology. Since its discovery 185 years ago, no counter-example has been recognized by the scientific
We live in a time when collaborations between countries and continents have never been easier, at least from a technical standpoint. A stunning example is the Large Hadron Collider, which is being used by a multinational group of physicists to understand the fundamental building blocks and laws of nature, from subatomic to cosmic. Stores of information and knowledge can be accessed from anywhere by anyone. Remote sensing technology enables the detailed observation of virtually every aspect of our planet's surface, subsurface, and climate. Technology and the Internet are transforming education. Learning is, in principle, available to everyone everywhere.

The 21st century is shaping up to be a challenging one. The issues that face us are many: climate change, energy, agriculture, health, water, biodiversity and ecosystems, population growth, and economic development. The 2012 program will focus on the complex challenges of the 21st century that are both global in their scope and profoundly interconnected as well as ways to tackle them on a global scale through international, multidisciplinary efforts.

Symposium proposals for the 2012 meeting are now being solicited. To submit a proposal, visit www.aaas.org/meetings. The deadline for submission is Tuesday, 26 April 2011.

Call for Poster Submissions

Student Poster Competition
Open to college undergraduate and graduate students only
The competition recognizes the individual efforts of students who are actively working toward a college-level degree. Winners in each category receive a cash award and framed certificate, and are listed in Science.

General Poster Session
Open to postdocs and professionals
This session provides an opportunity for postdocs and professionals to present their research to the broad community of scientists attending the AAAS Annual Meeting.

Information about the call for poster submissions for the 2012 Annual Meeting will be available at aaas.org/meetings on 12 May 2011.
community, and its status is generally considered absolute. During the last two decades, however, it has come under unprecedented scrutiny by research groups worldwide, as evidenced by the more than two dozen distinct challenges advanced against it in over 60 articles. Several of these challenges have moved into laboratory testing.

In this symposium, the current experimental and theoretical status of second law will be examined. Topics will include nonequilibrium systems, Maxwell’s demon, decoherence, the thermodynamic arrow of time. Emphasis will be given to current and proposed experiments addressing questions of second law universality. It is hoped this meeting will generate new theoretical models by which emerging experimental results can be understood, and stimulate new experiments and collaborations by which the underlying physics of the second law may be more fully exposed.

(16) Quantum Retrocausation: Theory and Experiment. Organizer: Daniel P. Sheehan (Department of Physics, University of San Diego, San Diego, CA; dsheehan@sandiego.edu). Currently scheduled for Monday and Tuesday, 13 and 14 June.

Retrocausation – the notion that earlier events affect later ones but not vice versa – undergirds our experience of reality and physical law. Although it predicated on the forward unidirectionality of time, in fact, most physical laws are time symmetric; that is, they formally and equally admit both time-forward and time-reverse solutions. Time-reverse solutions would allow the future to influence the past, i.e., reverse (or retro-) causation. Why time-forward solutions are preferentially observed in nature remains an unresolved problem in physics.

Laboratory evidence for reverse causation is intriguing but scarce; meanwhile, theoretical models for these results have not yet made deep enough connections with mainstream physics. Even the most basic physical constraints – e.g., whether reverse causation is best explained by energy transfers or simply by correlations without information exchange – remain open questions.

This symposium will explore recent experiments, theory, and philosophical issues connected with retrocausation. In particular, it is hoped that this meeting will help generate comprehensive theoretical models by which experimental results can be understood, and stimulate new experiments and collaborations by which the underlying physics may be more clearly exposed.

(17) Music and the Sciences: Synergies Among Musical Arts, Math, Science, and Engineering. Organizer: Thomas F. Schubert, Jr., Ph.D. (Department of Engineering, University of San Diego, San Diego, CA; schubert@sandiego.edu) and Ani Velo, Ph.D. (Department of Mathematics and Computer Science, University of San Diego, San Diego, CA; avelo@sandiego.edu). Currently scheduled for Tuesday, 14 June.

The linkage between science and music is not a new concept; throughout much of western history, science and art were each considered as philosophy. Aristotle’s exploration of the physical world led him to study musical scales, modes, and harmonic relationships with the use of weights. Galileo’s father was a famous musician and Einstein played violin.

The purpose of this symposium is to bring people artistically separated by modern academic disciplines together to re-explore the common ground shared by math, science, engineering, and music.

Presentations that explore various synergies among music, math, science, and engineering are solicited. It is expected that a wide variety of topics will be covered including: music composition, neurological perception of music, and acoustics.


World’s fairs are good fun and food. But, that is not all. Fairs are complex events that contain multiple ideas and meanings to the directors and managers, business community, the audience, participants, exhibitors and government administrators. They reflect themes of technological and industrial advance, empire and colony, racism and research, self-image, respect and independence. This symposium covers a wide range of topics and fairs documenting Asia and Asian American communities represented at the fairs, the reasons for the collections of ethnological material and other artifacts and what happened to them, Californians response to the Panama-Pacific Exposition, mummies on display, how Native Americans were represented, and how the Japanese depicted the Ainu. Anthropologists, historians and archivists will participate at this symposium. In addition to the above, there will be a discussion on the use of archives to document fairs, the information they contain, and the continuous need to acquire additional records and special collections.

(19) The Forensic Science of Clinical Mental Health in Death Penalty Cases: Theresa Lewis Case. Organizer: Ronn Johnson, Ph.D., ABPP (University of San Diego, San Diego, CA; ronnjohn@cts.com). Currently scheduled for Tuesday, 14 June.

Death penalty cases often contain mental health mitigating factors. CACREP is a counseling organization that accredits clinical mental health training programs. Among the CACREP standards are assessment, diagnosis, ethics, psychopathology, and forensic issues. Theresa Lewis was a death penalty case where the aforementioned forensic mental health factors were relevant. Lewis was the 12th woman to be executed in the United States since capital punishment was reinstated in 1976. She was convicted and sentenced to death in a murder for hire incident, with the two male co-conspirators receiving life sentences. The Theresa Lewis case is significant for two clinical mental health reasons. First, it provides a forensic mental health framework for the science-based application of various clinical tools. Second, there is an opportunity for examining the extent to which these mental health tools meet Daubert standards.

This symposium includes a number of paper presentations that examine forensic mental health issues related to the Theresa Lewis case. Papers are presented in twos followed immediately by a “counter viewpoint” facilitated by discussants that will be recruited in advance of the conference or may contact the chair of the symposium for inclusion in the program. Presentation titles are expected to include:

- Overview and wrap up questions for forensic mental health in death penalty cases
- Opposing forensic mental health reports in death penalty cases
- Dependent personality disorder as a mitigating factor in death penalty cases
- IQ as a mitigator in death penalty cases
- Forensic mental health cultural and ethical considerations in death penalty cases
- Forensic mental health issues in domestic violence
- “Clinical mental health issues” in death penalty cases
- Behavioral disorders or mental impairment “not” contained in the DSM-IV-TR
- Care of the mental health professional in death penalty cases
- Identifying, securing, organizing and reviewing mental health data in death penalty cases

(20) The Changing Role of the Research University in K–12 Science Education. Organizers: Sherry Seethaler (Staff Director of California Teach, Division of Physical Sciences, University of California San Diego, La Jolla, CA; seethaler@ucsd.edu) and John Czworkowski (Lec-
Concerns about America's future science and technology competitiveness in the global economy are changing the role of the nation's research universities in K-12 science education. The National Academies' report, *Rising Above the Gathering Storm*, recommended three actions to improve K-12 STEM education: 1) Attract more of America's brightest students to the teaching profession; 2) Strengthen the skills of the nation's current K-12 teachers; and 3) Enlarge the pipeline of students prepared to pursue STEM degrees. This symposium reveals how four research universities broke down intra-institutional barriers (between science and education departments) and inter-institutional barriers (between universities and K-12 schools) to address these aspects of precollege science education. University of Arizona’s Science Teacher Preparation Program, University of San Diego, California, San Diego’s California Teach, and University of California Berkeley’s Cal Teach and Summer Research Institute exemplify ways to bridge the traditional gap between undergraduate science curricula and education credential programs to develop future teachers’ pedagogical content knowledge. Project PASS at the University of Nevada, Las Vegas uses a professional learning community to strengthen the skills of current teachers through a collaborative partnership between a university and a large urban school district. Another strategy is the creation of University-led charter schools, such as the University of California, San Diego’s Preuss School, that provide rigorous college preparatory courses for diverse, low-income, first-generation college students. The panel will explore these programs, institutional changes that made them possible, how early dissonance was overcome, implementation, impact, and unexpected effects that continue to engage research universities in science education.

(21) Pathways to Science: Promoting Inquiry-Based Learning Beyond the Classroom. Organizers: Carl Maida (University of California, Los Angeles; cmaida@ucla.edu) and Paul Heckman (University of California, Davis). Currently scheduled for Wednesday, 15 June.

This session will combine didactic, experiential, and reflective activities—essential elements in Inquiry-Based Learning—to engage audience members, including K-14 teachers and informal science educators, and presenters in a professional learning community experience. The intent is to provide an opportunity for collaborative inquiry and the learning related to STEM (Science, Technology, Engineering, and Mathematics) in out-of-school-time settings. While increasing numbers of students start college with plans to major in STEM fields, their completion rates are lagging, especially among underrepresented minorities. Generating and sustaining interest in a scientific career will require engaging students in STEM learning activities outside of the classroom, such as collaborating with their peers on group projects in after school programs and science clubs. This workshop will consider ways to increase students’ scientific literacy through involvement in project-based learning—that is also inquiry-based—in after school programs and in experiential, community-based learning activities, including mentored internships, with the objectives of: 1) increasing knowledge of science; 2) improving the sense of self-efficacy; and 3) promoting basic, applied, and clinical sciences as career choices. Panelists will discuss current issues and future trends in out-of-classroom science education, including STEM after school programs, pre-college science enrichment and “pipeline” programs, university-community partnerships, STEM scientist educational outreach and mentoring activities, informal STEM education, “National Lab Day,” “Living classrooms,” scientific literacy, and “citizen science” initiatives. The session will also consider the ways high school seniors and college students, together, can serve as science ambassadors and role models to engage their peers in out-of-classroom activities that enhance an understanding, appreciation, and perhaps a passion for science and scientific inquiry.

We are pleased to announce that Dr. Shirley Malcom, Director of Education and Human Resources Programs at AAAS, will give the Keynote Presentation of the session, “The Promise of Inquiry-Based Learning Beyond the Classroom.”

Following the symposium and lunch (on your own) there will be an informal field trip to the San Diego campus of High Tech High. High Tech High began in 2000 as a single charter high school launched by a coalition of San Diego business leaders and educators. It has evolved into an integrated network of schools spanning grades K-12, housing a comprehensive teacher certification program and a new, innovative Graduate School of Education. The Gary and Jerri-Ann Jacobs High Tech High is the original High Tech High school. Founded in the fall of 2000, the school is located at HTH Village in San Diego and serves approximately 535 students in grades 9-12. High Tech High now operates eleven schools in San Diego County: two elementary schools, four middle schools, and five high schools. All of these schools serve a diverse, lottery-selected student population; all embody the High Tech High design principles of personalization, adult world connection, common intellectual mission, and teacher as designer. Participants in this symposium are invited to join in this unique opportunity to see how this innovative school functions. Additional details will be announced in the session.

(22) Don’t Sign Your Life Away: Author’s Rights, Scientific Publishing, Digital Repositories, and the Case for Open Access. Organizers: Steven Staninger (Business Librarian/Copley Library, University of San Diego, San Diego, CA:sstan@sandiego.edu), Amy Besnoy (Science Librarian/Copley Library, University of San Diego, San Diego, CA; abesnoy@sandiego.edu), Crystal Goldman (Academic Liaison Librarian, Dr. Martin Luther King, Jr. Library, San Jose State University, San Jose, CA) and Pearl Ly (Natural Sciences Librarian, Kellogg Library, California State University San Marcos, San Marcos, CA). Currently scheduled for Monday, 13 June.

This symposium and accompanying workshop will focus on author’s rights, the legal background on copyright, the broad field of scientific publishing, and the benefits of open access to alleviate costs. Digital repositories will be discussed as a way for the academy to reclaim the ownership and dissemination of intellectual property.

(23) New Humanities and Sciences Convergences: Poetry and Science. Organizer: Robert Louis Chianese (Department of English (retired), California State University Northridge, Northridge, CA; rchianese@csun.edu) and Carl Maida (University of California, Los Angeles; cmaida@ucla.edu). Currently scheduled for Monday, 13 June.

The symposium presents comparative discussions of poetry and science as forms of knowing, as well as their methodologies; their forms of expression and proof; their uses of language; their relative acceptance by cultures at various times; the political, social, and intellectual controversies they have fomented; and the changing, comparative public images of the poet and scientist. It also considers whether nature poetry describes the world in terms with which scientists would agree.

A related topic for discussion is what is the radical imbalance of governmental support for the Humanities vs. the Sciences (FY 2011 $167 million vs. $40 billion) bodes for education, society, and the futures of poetry and science themselves.

(24) Literature and Science: Exploring the Confluence. Organizer: Halina Duraj (Department of English, University of San Diego, San Diego, CA; hduraj@sandiego.edu). Currently scheduled for Monday, 13 June.
As the creative endeavors of science, technology, and literature overlap in our increasingly interdisciplinary world, how do they affect each other? Hypertext and other interactive fictions suggest a genre of literary-scientific hybrids; beyond hypertext, what is the next frontier of innovative, experimental, science-and-technology inspired narratives or speculative fiction? For instance, how are developments in neuroscience changing the way we conceptualize narrative—digital and otherwise? And can developments in literature (and speculative fiction) influence science, or how is it communicated among scientists and lay people? (25) Science Education and Civic Engagements. Organizers: Amy Shachter (Associate Provost, Research and Academic Affairs, Santa Clara University, Santa Clara, CA; e-mail: ashachter@scu.edu) and Steve Bachofer (Department of Chemistry, Saint Mary’s College, Moraga, CA; e-mail: bachofer@stmarys-ca.edu). Currently scheduled for Tuesday, 16 June.

This symposium will provide examples of courses that link science education and civic engagement. Included will be examples of courses designed to improve science education by helping to develop and strengthen efforts that teach through complex social issues to the basic science necessary to comprehend and intelligently act on them. We invite presentations on courses that promote critical thinking and research skills for problem-solving through service-learning and community-based research on important public policy issues. Finally, courses that foster student engagement in the community to create a greater sense of place and responsibility will be highlighted.

(26) WCMS aDNA and Associated Biomolecules. Organizers: Mark Spigelman and Dong Hoon Shin (Department of International Health, Royal Free, and UCL Medical School-London Kuvin Center for the Study of Infectious and Tropical Diseases and Ancient DNA, Hadassah Medical School, Hebrew University, Jerusalem, Israel; spigelman@btinternet.com). Currently scheduled for Tuesday, 14 June.

This symposium will discuss how aDNA and associated biomolecules form an important and growing part of research associated with mummy studies and how they contribute to a better understanding of the life and death of mummies. As this research is potentially destructive, the symposium will show how to biopsy mummies using minimally destructive/intrusive methodology as well as trying to establish baselines and protocols on how/what to sample.

(27a) WCMS Princess Takabuti – Analysis, Interpretation, and Visualization. Organizer: Caroline Wilkinson (Senior Lecturer, Facial Anthropologist, Centre for Anatomy and Human Identification, College of Life Sciences, University of Dundee, Dundee, Scotland; C.M.Wilkinson@dundee.ac.uk). Currently scheduled for Wednesday, 15 June.

This symposium relates the study of “Princess” Takabuti, an Egyptian mummy from the Ulster Museum in Belfast, Ireland. This was the first mummy to be displayed in Ireland (1835) and has been the highlight of the Ulster’s Egyptian collection. In 2008, the mummy was taken to the University of Manchester where Rosalie David and a team of scientists analyzed the mummy for evidence of disease, diet, lifestyle, lifespan, status, and religious practices. Caroline Wilkinson from the University of Dundee created a 3-D reconstruction of the mummy’s face. See #27b for a continuation of this topic.

(27b) WCMS Facial Analysis and Depiction of Preserved Remains. Organizer: Caroline Wilkinson (Senior Lecturer, Facial Anthropologist, Centre for Anatomy and Human Identification, College of Life Sciences, University of Dundee, Dundee, Scotland; C.M.Wilkinson@dundee.ac.uk). Currently scheduled for Wednesday, 15 June.

The second part of this double symposium (see #27a for first part) explores techniques by various researchers on the visualization of a wide range of subjects from the possible skull of Cleopatra’s sister, a shrunken head from South American, and a bog body from Ireland, to a mummified anatomical child specimen.

(28) WCMS The Rio Muerto Project: Mummies of the Tiwanaku Culture from Moquegua, Peru. Organizer: Paul S. Goldstein (Department of Anthropology, University of California San Diego, La Jolla, CA; ps-goldstein@dsms.ucsd.edu). Currently scheduled for Wednesday, 15 June.

This symposium outlines the bioarchaeological study of one of the best-preserved Tiwanaku sites (AD 500-1000) in Peru. The high degree of preservation of the human and cultural remains has allowed the study of paleodiet, gender, and status-based differences, through body preparation, cranial deformation, textile evidence, carbon and nitrogen isotope data, and mortuary architecture.

(29) WCMS Studies on an Old Kingdom Mummy. Organizer: Bob Brier (C.W. Post Campus, Long Island University, Greenvile, NY; Mummy123@aol.com). Currently scheduled for Thursday, 16 June.

The Carlos Museum at Emory University in Atlanta, Georgia has recently displayed a rare Old Kingdom mummy, giving researchers the opportunity to explore aspects of its preservation. The history of the mummy, its analysis and conservation are presented.

(30) WCMS Heart Disease and Atherosclerosis in Ancient Egyptian Mummies. Organized by: Randall Thompson (The Mid America Heart Institute, Kansas City, MO; rthompson@cc-pc.com). Currently scheduled for Thursday, 16 June.

This symposium presents a comparison of cardiovascular disease from 52 Egyptian Mummies with studies of atherosclerosis in the preindustrial world. The work of the HORUS Study group and its “Hunt for Atherosclerosis” is outlined.

(31) WCMS Mummies as Cultural Heritage. Organizers: Dario Piombino-Mascali and Albert Zink (Institute for the Mummies and the Iceman, EURAC Research, Bolzano, Italy; dario.piombino@eurac.edu). Currently scheduled for Thursday, 16 June.

A wide range of mummy preservation and national recognition is explored from museum specimens to bog bodies. One of these is the Zweeloo Woman, a bog body from The Netherlands with evidence of Leri-Weill dyschondrosteosis (DSC) a dominantly inherited dysplasia marked by short stature with mesomelic shortening of middle segments of the forearms and lower legs. This is the first case of DSC syndrome recognized in a 2nd century bog body from The Netherlands.


The objective of this symposium is to showcase the diversity of research using hair from archaeological contexts and explore how this research has enhanced the understanding of past populations. The chemical analysis of hair can provide information about diet, mobility, disease, stress, drug use, genetic data, season of death, and a variety of biochemical processes.

Note that symposia identified with the WCMS superscript are part of the program of the 7th World Congress on Mummy Studies. All meeting registrants are welcome to attend these or any other parts of the program of the Pacific Division Annual Meeting.
CONTRIBUTED PAPERS

Those wishing to submit papers for presentation at a contributed paper session (oral or poster) should refer to the “Call for Papers and Abstracts” on pages 12 and 24 of this Newsletter, or download instructions from the Division’s web site (pacific.aaas.org). If your abstract contains special characters, please fax a print copy of it to the Pacific Division office, 541-552-8457, with the special characters clearly marked and notations indicating the fonts used.

The deadline for submitting abstracts is 19 April 2011. If an abstract comes in after this date, it may not be listed in the program. Also, be aware that the abstract you submit will be published as written. It will not be edited. If it contains errors, they will appear as submitted. Be sure to keep the length of your abstract to no more than 250 words and use 10-point Times New Roman (or variation) font (no exotic fonts, please!). Don’t forget to state clearly if yours is a student presentation so that it will be included in the judging competition. Please keep in mind if you are a student who intends to be in the competition for Awards of Excellence and you are part of a symposium with your presentation scheduled to end later than 3:00 p.m. on Tuesday afternoon (check with the planner of your symposium), you must also present your work as a poster in order to be judged. Otherwise, you will not be eligible for student awards due to the conclusion of judging early Tuesday afternoon. Awards will be announced later that evening.

POSTER SESSIONS

Posters will be assigned a display space of 40” tall X 60” wide (1 m X 1.5 m) and will be grouped by discipline and subject matter. Posters are to be mounted using map pins on foam core backings (supplied). In order to assure fairness, the Pacific Division Council took action stating that all student posters must fit within the assigned display space to be eligible for student Awards of Excellence. A request for extra space will disqualify a student from the award competition.

Student posters will be judged for Awards of Excellence. Students must be present for a two hour period to allow judges the opportunity to discuss their work and to evaluate their posters.

With the permission of Dr. Carol Waite Conner and the Geological Society of America, the Pacific Division has reprinted Dr. Conner’s article, “The Poster Session: A Guide for Preparation.” It can be found on the Division’s web site, http://pacific.aaas.org. Click on the 92nd Annual Meeting home page and then Poster Preparation (listed in the left column). Another web site containing excellent information on poster preparation is http://www.ncsu.edu/project/posters.

SOCIETIES AND PACIFIC DIVISION SECTIONS

ACCEPTING CONTRIBUTED PAPERS FOR PRESENTATION AT THE MEETINGS

World Congress on Mummy Studies. Program Coordinator: Dr. Alana Cordy-Collins, Department of Anthropology, University of San Diego, San Diego, CA 92110. Contact: 619-260-4725; alanacc@sandiego.edu.

Agriculture and Horticultural Science. Section Chair and Program Coordinator: Dr. Michael D. MacNeil, USDA Agricultural Research Service, Fort Keogh Livestock and Range Research Laboratory, 243 Fort Keogh Road, Miles City, MT 59301. Contact: 406-874-8213; Mike.MacNeil@ars.usda.gov.

Anthropology and Archaeology. Section Chair and Program Coordinator: Dr. Stephen Frost, Department of Anthropology, University of Oregon, Eugene, OR 97403. Contact: 541-346-5161; sfrost@uoregon.edu.

Atmospheric and Oceanographic Sciences. Section Chair and Program Organizer: Dr. Anne A. Sturz, Department of Marine Science and Environmental Studies, University of San Diego, San Diego, CA 92110-2492. Contact: 619-260-4795; asturz@sandiego.edu.

Cell and Molecular Biology. Section Chair and Program Organizer: Dr. Kristen Mitchell, Department of Biology, Boise State University, Boise, ID 83725. Contact: (208) 426-4620; kristenmitchell@boisestate.edu.

Chemistry and Biochemistry. Section Chair and Program Organizer: Dr. Owen M. McDougall, Department of Chemistry and Biochemistry, Boise State University, Boise, ID 83725. Contact: 208-426-3964; owenmcdougall@boisestate.edu.

Computer and Information Sciences. Section Chair and Program Organizer: Please contact the Pacific Division office for information.

Earth Sciences. Section Chair and Program Organizer: Please contact the Pacific Division office for information.

Ecology, Organismal Biology, and Environmental Sciences. Section Chair and Program Organizer: Dr. Richard Van Buskirk, Environmental Studies, Pacific University, 2043 College Way, Forest Grove, OR 97116. Contact: 503-352-2251; vanbuskirk@pacificu.edu.

Education. Section Chair and Program Organizer: Dr. William B.N. Berry, Department of Earth and Planetary Sciences, 307 McConnell Hall, University of California, Berkeley, CA 94720-4767. Contact: 510-642-3925; bberry@uclink4.berkeley.edu.

Engineering, Technology and Applied Sciences. Section Chair and Program Organizer: Dr. Frank Jacobitz, Department of Engineering, University of San Diego, 5998 Alcalá Park, San Diego, CA 92110. Contact: 619-260-7820; jacobitz@sandiego.edu.

General and Interdisciplinary. Section Chair and Program Organizer: Dr. Robert L. Chianese, Department of English (Emeritus), California State University, Northridge, Northridge, CA 91330. Contact: 805-653-2520; rchianese@csun.edu.

Health Sciences. Section Chair and Program Organizer: Dr. H. K. Choi, Department of Biology, California State University, Dominguez Hills, 1000 East Victoria Street, Carson, CA 90747. Contact: 310-243-3985; hchoi@csudh.edu.

History and Philosophy of Science. Section Chair and Program Organizer: Dr. Donald McGraw, P.O. Box 515, Ephraim, UT 84627. Contact: 619-947-5108; donaldmcgraw@mac.com.

Mathematics. Section Chair and Program Organizer: Please contact the Pacific Division office for information.

Oral Biology and Dental Medicine. Section Chair and Program Organizer: Dr. Francesco Chiappelli, UCLA School of Dentistry, CHS 63090, Los Angeles, CA 90095-1668; e-mail: fchiappelli@dentistry.ucla.edu.

Physics and Materials Science. Section Chair and Program Organizer: Dr. Panos Photinos, Department of Physics and Materials Science, Southern Oregon University, Ashland, OR 97520. Contact: 541-552-6475; photonis@sou.edu.

Psychology. Section Chair and Program Organizer: Dr. J. Ken Nishita, California State University, Monterey Bay, 100 Campus Center, Seaside, CA 93955-8001. Contact: 831-582-3563; ken_nishita@csumb.edu.

Social, Economic, and Political Sciences. Section Chair and Program Organizer: Dr. Carl A. Maida, UCLA Schools of Dentistry and Medicine, University of California, PO Box 951668 CHS, Los Angeles, CA 90095. Contact: 805-492-5613; cmaida@ucla.edu.

Visit us at http://pacific.aaas.org
92nd Annual Meeting  
San Diego, California  
12 – 16 June 2011  

Final Call for Papers and Abstracts  

Members of AAAS and its affiliated societies, students, teachers and other scientists are encouraged to participate in the annual meeting of the Pacific Division of AAAS by presenting papers and/or posters. Persons wishing to present at one of the sessions should e-mail the title, abstract and other required information (see instructions below) as a Word or .rtf attachment to the chair of the appropriate society or section (see page 23 of this Newsletter) and also the Pacific Division office at rchristi@sou.edu. If your abstract contains special characters, please fax a copy of it to the Pacific Division office, 541-552-8457, in addition to the e-mail submission. The deadline for abstract submission is 19 April 2011. Students wanting to compete for an Award of Excellence must identify themselves as students on their abstract submissions so that judges will know to evaluate their presentations.

Oral contributed papers are scheduled every 20 minutes, allowing about 14 minutes for the talk, about five minutes for questions at the end, and a minute or so for PowerPoint change-over. If you are presenting in a symposium, please contact the symposium organizer for presentation details.

Format your submission as follows:

Line 1: Submitter’s name
Line 2: Submitter’s telephone number and e-mail address
Line 3: Presenter’s name (if different from above) or “SAME” (if same as above)
Line 4: Presenter’s telephone number and e-mail address (if different from above)
Line 5: Society, section or program to which you are submitting your presentation for review
Line 6: Type of presentation (ORAL or POSTER)
Line 7: Is the presenter a student? (STUDENT or NOT A STUDENT)
Line 8: Special equipment needs (other than standard computer equipment and PowerPoint)
Line 9 ff: Paper Title Italicized and in Title Case, AUTHOR’S NAME(S) (Full address(es), including institution, mailing address, city, state and zip code, and e-mail address(es)). Refer to the example below for additional information.

Example of a properly formatted abstract submission (lines 9 ff and 10 ff), including additional information

Formatting an Abstract for Submission to a Pacific Division Section Chair and the AAASPD Meetings Office, SAMUEL P KRAFTER1*, YESIMAN AUTHOR2, and IDIDA DeREADING3 (1Department of Biology, Southern Oregon University, 1250 Siskiyou Boulevard, Ashland, OR 97520; 2Department of Academic Speech, Bureau of Speech Employment, 12 Back Street, Medford, OR 97504; spkraf@biology.sou.edu).

All authors should be listed sequentially, starting with the person who contributed the most and ending with the person who contributed the least. If more than one address occurs among the authors, use a superscripted number on the right of each author’s last name, followed by the corresponding superscripted number at the start of each unique address. Place an asterisk (*) next to the last name of the presenter. Submissions not formatted in this manner may be returned for reformatting or rejected.

Note that the first line of each of these text paragraphs is indented. Indent the first line of each paragraph of your abstract 0.25 inches by using the first line indent command of your word processor, not the tab. All text should be full justified.

Use 10 point Times New Roman font. If you substitute, your abstract will be reformatted to this font. If your text contains special characters, they probably won’t accurately survive e-mailing and/or any required reformatting. Thus, in addition to an e-mail submission, abstracts that contain special characters should be printed and faxed (541-552-8457) or mailed to the AAASPD office (AAAS Pacific Division, Department of Biology, Southern Oregon University, 1250 Siskiyou Blvd., Ashland, OR 97520). Be sure to point out special characters in your abstract and identify the font set that contains them. If outrageously exotic fonts are used, we probably won’t have the correct one to use, so use common font sets (e.g. Symbol, Wingdings, etc.) for your special characters!
Call for Symposium and Workshop Proposals

Members of AAAS and its affiliated societies, students, teachers and other scientists are encouraged to participate in the annual meeting by developing symposia and/or workshops. Persons wishing to develop a program for the 2012 Boise, Idaho meeting should e-mail the title, description and other information (see instructions below) to the Pacific Division office at rchristi@sou.edu.

**Symposia** may be 1/2-day, full-day or longer. Individual symposium presentations are usually scheduled with more time than for contributed papers (30 minutes rather than 20 minutes), but the actual scheduling depends on the needs of the symposium and may be longer or shorter, even a combination of the two. Please contact Dr. Roger Christianson, Pacific Division Executive Director, to discuss your specific needs. When preparing your submission, please indicate which presenters are confirmed or not (see Line 12 below). If you do not yet have a list of presenters, you may submit a list of potential presentation topics. Please keep in mind that we need as much information as early as possible in order to adequately evaluate and publicize the symposium.

**Workshops** generally are 1/2-day or full-day and may or may not accompany a symposium. If special facilities and/or equipment are required, be sure to identify what you need as completely as possible in your submission (see Line 12 below). If a cost is incurred, it will be passed along to participants as a workshop fee in addition to the ordinary meeting registration fee.

Questions? Contact Dr. Roger Christianson, 541-552-6747 or rchristi@sou.edu.

Please format your submission as follows:

1: Organizer’s name
2: Organizer’s full mailing address, including academic/professional affiliation, telephone number and e-mail address
3: Co-organizer’s name(s) (if any)
4: Co-organizer’s full mailing address, including academic/professional affiliation, telephone number and e-mail address
5: Is this a proposal for a Workshop or a Symposium?
6: Do you anticipate any student presentations in your program?
7: Is there a particular day or days on which your program needs to take place?
8: Number of sessions requested (a session is roughly three to three and a half hours)
9: Pacific Division section(s) and/or affiliated society requested to sponsor this program
10: Title of proposed program
11: Brief description of proposed program (please limit to 250 words)
12: If a symposium, list the names of proposed (confirmed?) speakers, including academic/professional affiliation, and e-mail address for each. Presentation titles are optional at this time but will be requested later, along with an abstract for each presentation.

If a workshop, indicate facilities and/or special equipment required and number of participants that can be accommodated.

phone: 541-552-6747 • e-mail: rchristi@sou.edu • internet: http://pacific.aaas.org
AAAS, Pacific Division 92nd Annual Meeting
UNIVERSITY of SAN DIEGO RESIDENCE HALL APPLICATION

Note that one form must be filled out for each individual requesting campus housing.
Type or print this form legibly! If faxing, use black ink.

Name ____________________________________________  □ Male  □ Female

Address _______________________________________________________________________________________

City, State, Zip _______________________________________________________________________________________

Phone (day): __________________  Phone (evening): __________________ E-mail: __________________

If requesting a double room, check one:
□ roommate’s name is: ________________________________________________________________________________
OR
□ please assign a roommate

Refer to page 9 of this Newsletter for a description of the accommodations and options listed below. Note that each night’s lodging includes an $8.00 food credit at various USD food locations.

Note that no refunds will be given for unused food credits or unused nights of stay.

RATES:
Three night basic housing package –
Check in Sunday, 12 June; check out Wednesday, 15 June
Double, per person $183.00
Single $234.00

Additional nights in conjunction with three night basic package –
Double, per person per night $61.00
Single, per night $78.00

Parking: $3.00/day for each day of residence on campus.

HOUSING REQUEST:
Three night housing package
□ Double, per person $ _______
□ Single $ _______

Additional nights (nights must be contiguous to nights of three night basic package)
□ Friday, 10 June $ _______
□ Saturday, 11 June $ _______
□ Wednesday, 15 June $ _______
□ Thursday, 16 June $ _______
□ Friday, 17 June $ _______

ON-CAMPUS PARKING PERMIT
# days in USD residence ___ x $3/day $ _______

Total Amount $ _______

Deadline for Application
The completed application for housing must be received in the Pacific Division office no later than 15 May 2011. Space is on an “as available” basis.

Three Ways to Apply for Housing
1. Complete this form and send it to the Pacific Division office, either with a check in the full amount payable to AAAS, Pacific Division, or with credit card information completed below.
2. Call the Pacific Division office, 541-552-6869, between approximately 12:00 p.m. and 4:00 p.m. Pacific Time. Your information will be taken, along with the appropriate credit card information.
3. Fax your housing request, including credit card information. The 24-hour fax number is 541-552-8457. It is a dedicated line into the Pacific Division office.

Cancellation/Refund Policy
All cancellation/refund requests for housing on this form must be made in writing to the Pacific Division office via USPS or e-mail. Requests must be received no later than 19 May 2011. Refunds are subject to a $15 processing charge and an additional 3.5% of the total if payment was by credit card.

Payment by Credit Card
Type of Card  □ Visa  □ Master Card  □ Discover  □ Am Ex

Card Number __________________________________________
Expiration Date ___________  Today’s Date ___________
Name on Card (print) __________________________
Card Billing Address ______________________________________
City ______________________ State ______ Zip _________
Cardholder Signature __________________________

Page 26  E-mail us at aaaspd@sou.edu
ADVANCE REGISTRATION FORM
FOR EARLY REGISTRATION, FIELD TRIPS, and OTHER SPECIAL EVENTS

Send this form directly to
AAAS, Pacific Division • Southern Oregon University • 1250 Siskiyou Blvd • Ashland, OR 97520
or call with information: 541-552-6869 or FAX to our dedicated line: 541-552-8457

Please PRINT CLEARLY or TYPE this form. If faxing, use black ink.
This form supercedes all earlier forms.

Name: ____________________________________________________________ Date: ______________
Mailing Address: _________________________________________________________________________________
City, State, Zip: __________________________________________________________________________________
E-mail: ____________________________________________ Day Phone: ______________________________
Institution/Company (for your name tag – if blank, city & state will be used): _______________________________________

AAAS member: □ Yes □ No World Congress on Mummy Studies: □ Yes □ No

Affiliated Society Membership: ________________________________________________________________

How did you first hear about this meeting? ___________________________________________________________

Did you receive the April Newsletter for this meeting? □ Yes □ No
If yes, how? □ Print copy via USPS □ Print copy from someone □ PDF download from internet
Did you know that electronic copies of each Newsletter are available as PDF downloads from the Pacific
Division web site? □ Yes □ No
If given the option, would you prefer to receive an e-copy of the Newsletter rather than a print copy? □ Yes □ No

Would you like to help judge student presentations at this meeting? □ Yes □ No
Please see page 4 of this Newsletter for information about judging. If you check the “yes” box, you will be contacted for additional information.

Are you planning a program for this meeting, presenting, or leading a field trip? □ Yes □ No
If yes, in which program or section? ________________________________________________________________

MEETING REGISTRATION FEES:

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<th></th>
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<td>□ $105.00</td>
<td>□ $120.00</td>
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One-day of Meeting
Professional □ $65.00 □ $75.00 □ $85.00

Stipend? □ Yes □ No
Name, City, State (for name tag): ____________________________________________

DIVISION BANQUET: The Division banquet will be held on the evening of Tuesday, 14 June and will include announcement of the student award winners. Students who are registered for the meeting and who present either orally or a poster are invited to be guests of the Division at the banquet and do not have to pay to attend but must check the appropriate box below. Refer to page 13 in this Newsletter for descriptions of the entrées.

Student presenter ticket @ no charge (choose one): □ Gnocchi □ Black Cod □ Osso Bucco Milanese
Tickets @ $40.00 ea. Indicate quantity by each choice: ___ Gnocchi ___ Black Cod ___ Osso Bucco Milanese

Please complete reverse side before sending or faxing form.
**FIELD TRIPS:** All trips are priced per person. See page 15 of this *Newsletter* for details.

Field trip registration fee for non-registrants (once per person) ___ regs. @ $10.00 $ ____________

Name(s) of people registered for field trips only: ______________________________________

**Sunday, 12 June**

Field Trip #1: San Diego Coastal Geology and Hazards ___ tickets @ $70.00 $ ____________
Field Trip #3: San Diego Botanic Gardens ___ tickets @ $70.00 $ ____________

→ → → Type of sandwich for field trip #1 or #3 ☐ vegetarian ☐ meat ↔ ↔

**Wednesday, 15 June**

Field Trip #4 Museum of Man ___ tickets @ $15.00 $ ____________

**Thursday, 16 June**

Field Trip #2: World’s Fairs Walking Tour ___ tickets @ $25.00 $ ____________
Field Trip #5: Tidepooling at Cabrillo National Monument ___ tickets @ $55.00 $ ____________
Field Trip #6: Mission Bay Aquatic Center:
  Instruction in Kayaking ___ tickets @ $35.00 $ ____________
  Instruction in Sailing ___ tickets @ $35.00 $ ____________

**WORKSHOPS:** See page 16 of this *Newsletter* for workshop details.

Please check which workshops you are planning to attend. Certain workshops require payment of a fee.

☐ Artefact Annotation (no fee but limit of 20 participants)  ☐ Finding Information in Open Access Journals (no fee but limit of 24 participants)
☐ Field and Advanced Paleoimaging ($20 fee)  ☐ Vitamin D (no fee)

Registration Total $ ____________
Banquet Total $ ____________
Field Trips Total $ ____________
Workshops Total $ ____________

**TOTAL DUE** $ ____________

(Make checks payable to AAAS, Pacific Division or use your credit card – see below.)

Please indicate the number of people in your party that plan to attend each reception:

___ Welcome Reception (Sun evening) ___ Presidential Reception (Mon evening)

**CREDIT CARDS**

To pay for your advance registration by credit card, you may
  • mail this completed form to the address below, or
  • phone the information to 541-552-6869 between about 12:00 p.m. and 4:00 p.m. Pacific Time, or
  • fax this completed form to 541-552-8457 (dedicated fax line into the Pacific Division office).

Type of Card:  ☐ Visa  ☐ Master Card  ☐ Discover  ☐ AmEx
Credit Card Number ______________________________________ Expiration Date ______________________
Name on Card _______________________________________________________________________________________________
Complete Billing Address for Card _______________________________________________________________________________
Signature of Cardholder __________________________________________________________ Date ______________________

**COMPLETE AND RETURN THIS FORM WITH YOUR PAYMENT TO:**

AAAS, Pacific Division • Department of Biology • Southern Oregon University • Ashland, OR 97520
Should you have questions, e-mail us at aaaspd@sou.edu or call 541-552-6869 M – F 12:00 p.m. to 4:00 p.m., Pacific Time.
INTRODUCING

AAAS MemberCentral

The exclusive new website for the AAAS member community.

AAAS MemberCentral is a new website focused on helping you — the scientists, engineers, educators, students, policymakers, and concerned citizens who make up the AAAS community — connect like never before.

On MemberCentral you can contribute to discussion groups or blogs, participate in a webinar, or share photos of your field research. You can exchange ideas, learn about your fellow members, and gain fresh insights into issues that matter to you the most. MemberCentral is also an easy access point for a wide variety of other AAAS membership benefits, like discounts on cars and books, travel opportunities, and more.

Experience MemberCentral for yourself. Visit MemberCentral.aaas.org today and log in using your Science online username and password.

Visit us at  http://pacific.aaas.org
Pacific Division Publications

wow!!! Annual Book Sale wow!!!

One Book.....45% off • Two Books.....55% off
Three or more Books.....65% off
With this form only • Sale ends 1 May 2011

Please PRINT or TYPE this form. Use an extra sheet of paper if necessary. If faxing, use black ink.

| Biodiversity and Taxonomy (2005; paper, 236 pp. – ISBN 0940228-62-9); | $35.00 |
| Museums and Other Institutions of Natural History: Past, Present, and Future (2004; paper, 325 pp. – ISBN 0-940228-60-2); | $35.00 |
| Agroecosystems and the Environment: Source, Control, and Remediation of Potentially Toxic, Trace Element Oxyanions (1998; cloth, 213 pp. – ISBN 0-934394-12-1); | $20.00 |
| San Francisco Bay: The Ecosystem (1996; cloth, 542 pp., color plates – ISBN 0-934394-11-3); | $45.00 |
| Genecology and Ecogeographic Races (1995; cloth, 275 pp. – ISBN 0-934394-10-5); | $28.95 |
| Dietary Factors and Birth Defects (1993; paper, 410 pp. – ISBN 0-934394-08-03); | $28.50 |
| Crater Lake: An Ecosystem Study (1990; cloth 224 pp. – ISBN 0-934394-07-5); | $26.95 |
| Late Cenozoic History of the Pacific Northwest (1985; cloth, 417 pp. – ISBN 0-934394-06-7); | $28.95 |
| Patterns of Evolution in Galapagos Organisms (1983; cloth, 568 pp. – ISBN 0-934394-05-9); | $32.50 |
| San Francisco Bay: Use and Protection (1982; paper, 310 pp. – ISBN 0-934394-04-0); | $17.95 |

Proceedings Series

Meeting Program with Abstracts (Proceedings Vol. 1, Part 1, 1982 through Vol. 29, Part 1, 2010); $10.00 each
Evolutionists Confront Creationists (Proceedings Vol. 1, Part 3, 1984; paper, 213 pp.); $10.00
California’s Master Plan for Higher Education in the Twenty-first Century (Proceedings, Vol 13, Part 2, 1996; paper, 118 pp.); $10.00

Address orders to: AAAS, Pacific Division • Southern Oregon University • 1250 Siskiyou Blvd. • Ashland, OR 97520
Phone orders: 541-552-6869 • dedicated FAX orders: 541-552-8457 • E-mail: aaaspd@sou.edu

*ALL SALES FINAL — NO RETURNS*

Payment must accompany all orders. Make checks payable to AAAS, Pacific Division.

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<th>Quantity*</th>
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**DISCOUNT** (check appropriate box): □ 1 book = 45% □ 2 books = 55% □ 3 or more books = 65%
Attach extra sheet if necessary. Contact us for quantity orders.

Shipping/handling fees:
Domestic, $3.25 first book; $1.25 each add’l.
Foreign, contact us for cost.

**SUBTOTAL**

Name __________________________________________________________________   Date ______________________
Address ____________________________________________________________________________________________
City ________________________________________________   State _______________   Zip _____________________
Daytime Phone _________________________________________   e-mail _______________________________________

**TOTAL DUE WITH ORDER**

CREDIT CARD

□ Visa □ Master Card □ Discover □ American Express

Credit Card # __________________________   Expiration Date __________________________   Signature of Cardholder __________

Complete Billing Address for Card _______________________________________________________________________

E-mail us at aaaspd@sou.edu
USD Campus Map. Parking structures are numbers 2 (West Marian Way Parking—closest to meeting site) and 48 (Mission Parking—closest to Mission Housing Complex). Meeting rooms are on the west end of campus, in the Joan B. Kroc Institute for Peace and Justice (#12), the Shiley Center for Science and Technology (#17), and Camino Hall (#16), location of the Shiley Theater.
American Association for the Advancement of Science, Pacific Division
Department of Biology
Southern Oregon University
1250 Siskiyou Boulevard
Ashland, OR 97520

AAAS, Pacific Division
92nd Annual Meeting
UNIVERSITY of SAN DIEGO
San Diego, CA
12 – 16 June 2011
PRELIMINARY ANNOUNCEMENT of SYMPOSIA,
FIELD TRIPS and OTHER EVENTS

SYMPOSIA
(starting on page 17)

• Facial Analysis and Depiction of Preserved Remains.
• Heart Disease and Atherosclerosis in Ancient Egyptian Mummies
  • Human Experimental Mummification
  • Geophysical Turbulance
  • Panama Canal Expansion
• Antarctic Ice Is Nice
• Fragile X Syndrome: Advances in Our Understanding of a
  Common Cause of Retardation and Autism
• Quantum Retrocausation: Theory and Experiment
• Science Education and Civic Engagements.
  • The Changing Role of the Research University in K–12 Science Education
  • Pathways to Science: Promoting Inquiry-Based Learning Beyond the Classroom
• United States and World’s Fairs
• The Forensic Science of Clinical Mental Health in Death Penalty Cases: Theresa Lewis

WORKSHOPS
(starting on page 16)

• Artefact Annotation – Developing an Ontology to Help Mine Datasets
• Field and Advanced Paleimaging
• Finding Information in Open Access Journals
• Vitamin D

FIELD TRIPS
(starting on page 15)

• San Diego Coastal Geology and Hazards
• San Diego Botanic Gardens
• Museum of Man
• Come See the Wonders of the Fairs: A Walking Tour
• Tidepooling at Cabrillo National Monument
• Mission Bay Aquatic Center Instruction in Sailing or Kayaking

NOTE: These programs are being planned as of 15 March 2011. However, changes in offerings frequently occur. For up-to-date information, please visit the Pacific Division web site, pacific.aaas.org