Program Schedule

Westin Bonaventure Hotel & Suites
Los Angeles, CA, USA
October 30 – November 2, 2013
The Society of Vertebrate Paleontology Thanks this Year’s Meeting Sponsors.

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Thank you to the committee members whose efforts created a successful and memorable event!

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General Information

All meeting activities will be held at the Westin Bonaventure Hotel & Suites unless noted otherwise.

Registration Desk
California Foyer, Level 2
Tel: (213) 426-4962

Tuesday, October 29  12:00 pm – 6:00 pm
Wednesday, October 30  7:00 am – 5:00 pm
Thursday, October 31  7:00 am – 5:00 pm
Friday, November 1  7:30 am – 5:00 pm
Saturday, November 2  8:00 am – 5:00 pm

Exhibit Hall
San Diego Ballroom/California Foyer, Level 2

Wednesday, October 30  9:30 am – 6:15 pm
Thursday, October 31  9:30 am – 6:15 pm
Friday, November 1  9:30 am – 6:15 pm
Saturday, November 2  9:30 am – 6:15 pm

Exhibit/Poster Mixer on Wednesday, Thursday, Friday, and Saturday from 4:15 pm – 6:15 pm.

Auction Item Drop Off
Beaudry A, Lobby Level

Tuesday, October 29  8:00am – 5:00pm
Wednesday, October 30  8:00am – 5:00pm
Thursday, October 31  8:00am – 5:00pm
Friday, November 1  8:00am – 12:00 noon

Please be sure to drop off your donations for the Auction by 12:00 noon on Friday, November 1st!

Program and Abstract Book
Paper copies of the SVP Program and Abstract Book are not available on site. You can order a paper copy for your collection through a link on the SVP website. To access electronic copies of the Program and Abstract Book from your computer, visit http://www.lulu.com/content/paperback-book/svp-2013-program-and-abstracts/13971734.

Annual Meeting T-shirts and More!
California Foyer, Level 2

Wednesday, October 30  10:00 am – 5:00 pm
Thursday, October 31  10:00 am – 5:00 pm
Friday, November 1  10:00 am – 5:00 pm
Saturday, November 2  10:00 am – 5:00 pm
Visit the registration desk to purchase SVP Meeting t-shirts, mugs, pins, and 2014 calendars. Find additional SVP-branded items at Café Press: [www.cafepress.com/vertpaleo](http://www.cafepress.com/vertpaleo). If you pre-ordered a Meeting t-shirt, you may pick it up on site at the registration desk, starting Wednesday.

**Speaker Ready Room**  
*Beaudry B, Level 1*

- Tuesday, October 29: 7:00 am - 4:00 pm  
- Wednesday, October 30: 7:00 am - 4:00 pm  
- Thursday, October 31: 7:00 am - 4:00 pm  
- Friday, November 1: 7:00 am - 4:00 pm  
- Saturday, November 2: 7:00 am - 4:00 pm

**Coffee Breaks**  
*California Foyer, Level 2*

- Wednesday, October 30: 7:30 am - 8:00 am  
- Thursday, October 31: 7:30 am - 8:00 am  
- Friday, November 1: 7:30 am - 8:00 am  
- Saturday, November 2: 7:30 am - 8:00 am

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**Family Room**  
*San Fernando, Lobby Level*

The Family Room is available for use daily during session hours. The Family Room is not staffed; parents and guardians are responsible for the supervision and safety of their children and personal belongings.

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**The Alfred Sherwood Romer Prize Session**  
Hear from new voices in paleontology on Thursday, October 31, from 8:00 am to 12:15 pm in San Francisco. Sixteen abstracts were chosen for presentation during this session in recognition of outstanding scientific contributions in vertebrate paleontology by predoctoral students.

**Education & Outreach Poster Session** *(Board #103-113)*  
Learn from your colleagues’ education outreach successes by visiting the Education & Outreach posters located in the California Foyer. Authors will be present at their posters on Thursday, October 31, from 4:15 pm – 6:15 pm.

**Edwin H. and Margaret M. Colbert Prize Poster Session** *(Board #91-102)*  
View the twelve posters from which the 2013 Edwin H. and Margaret M. Colbert Prize winner will be chosen. Students offer fresh viewpoints in Vertebrate Paleontology through their poster presentations located in the California Foyer. Authors will be present at their posters on Thursday, October 31, from 4:15 pm – 6:15 pm.

**Preparators’ Table**  
The preparators’ table will be a place for anyone interested in fossil preparation and collections management to meet and share current projects and ideas. The area will be staffed by a variety of preparators and collections professionals, so stop by and discuss what new pre/collections project you’re working on.
Preparators’ Session (Board #114-115)
Join this forum for presentations on current issues in paleontological preparation, ranging from field and lab techniques to specimen curation and exhibition design. This oral presentation of this session will take place on Thursday, October 31, from 8:00 am until 12:15 pm in San Jose. The poster presentation of this session will take place on Thursday as well, from 4:15 pm – 6:15 pm in the California Foyer.

Recordings Prohibited
The use of cameras, video equipment or any type of recording device is prohibited during the proceedings (including platform presentations and poster sessions) at the SVP 73rd Annual Meeting.

Coverage of technical content of the SVP sessions is not to be reported in any medium (print, electronic, or internet) until the start time of the presentations or until the relevant poster session opens for viewing. Respect any embargoes noted by the presenter.

Wi-Fi Service
Attendees may purchase internet in their sleeping rooms at the Westin Bonaventure Hotel & Suites at a cost of $12.95 per day, per device. Complimentary wifi is available in the lobby area only. There is no code to access the free Wifi, however attendees will be prompted to fill in their contact information before access is granted.

SVP on Twitter
Follow SVP and comment about the Annual Meeting using hashtag #2013SVP

Special Events

Special Presentation by Dr. Tim D. White from the University of California, Berkeley
“Far Away and Long Ago: Six Million Years of Human Evolution in Ethiopia’s Afar Rift”
Tuesday, October 29, 2013
7:00 pm
Natural History Museum of Los Angeles County

Attendees will be able to enter the museum for free by showing their badge. Attendees must make their own travel arrangements. Options include:

Metro
- Walk 3 blocks to 7th Street/Metro Center Station
- Take Metro Expo line to Expo Park/USC station or Expo/Vermonth station.
- The cost is $1.50 USD each way.

DASH – Bus F
- The cost is $0.50 each way.

Walking Directions
- Head southwest on S Figueroa Street toward W 5th Street for approximately 2.8 miles.
- Turn right at USC onto W Exposition Boulevard and continue for about 0.4 miles.
- Make a U-turn at Bill Robertson Lane, continue for 489 feet, and your destination will be on the right.
Welcome Reception  
Wednesday, October 30, 2013  
7:00 pm – 10:00 pm  
Natural History Museum of Los Angeles County

Attendees must wear their badge to be admitted to the Welcome Reception. Badges will also provide attendees with a discount at the museum gift shops. All public areas will be open during the Reception with the exception of collections areas.

A limited number of buses are available for free transportation to/from the Westin Bonaventure Hotel and the Natural History Museum for the Welcome Reception. Bus pickup/drop off at the hotel is located on the Figueroa side. Buses will depart approximately every 30 minutes beginning at 5:30 pm.

Attendees will be dropped off at the Museum’s North Entrance (Exposition Boulevard) and will be picked up at the Museum’s car park entrance (Bill Robertson Lane) for return to the hotel. The last bus will depart from the Museum at 11:00 pm. Transportation cannot be guaranteed and is based on seat availability.

Please note that transportation is not guaranteed and is based upon seat availability.

Map of the Natural History Museum of Los Angeles County

Other travel arrangement options include:

**Metro**
- Walk 3 blocks to 7th Street/Metro Center Station  
- Take Metro Expo line to Expo Park/USC station or Expo/Vermonth station.  
- The cost is $1.50 USD each way.

**DASH – Bus F**
- The cost is $0.50 each way.

**Walking Directions**
- Head southwest on S Figueroa Street toward W 5th Street for approximately 2.8 miles.  
- Turn right at USC onto W Exposition Boulevard and continue for about 0.4 miles.  
- Make a U-turn at Bill Robertson Lane, continue for 489 feet, and your destination will be on the right.
SVP Business Meeting and Open Forum
Thursday, October 31, 2013
12:30 pm – 1:30 pm
San Francisco Ballroom, Level 2
An opportunity to bring your questions to SVP leadership.

Preparators’ Meeting
Thursday, October 31, 2013
2:00 pm – 3:30 pm
Santa Barbara ABC, Lobby Level

History of Vertebrate Paleontology Symposium
Thursday, October 31, 2013
6:00 pm – 9:00 pm
Natural History Museum of Los Angeles County
Attendees must wear their badge for admittance.
Attendees must make their own arrangements for transportation. Options include:

Metro
- Walk 3 blocks to 7th Street/Metro Center Station
- Take Metro Expo line to Expo Park/USC station or Expo/Vermonth station.
- The cost is $1.50 USD each way.

DASH – Bus F
- The cost is $0.50 each way.

Walking Directions
- Head southwest on S Figueroa Street toward W 5th Street for approximately 2.8 miles.
- Turn right at USC onto W Exposition Boulevard and continue for about 0.4 miles.
- Make a U-turn at Bill Robertson Lane, continue for 489 feet, and your destination will be on the right.

Student Roundtable Forum & Reprint Exchange
Thursday, October 31, 2013
7:30 pm – 11:30 pm
Sacramento Ballroom, Level 2
Students will build their library and get valuable insight and advice from respected experts.
Refreshments will be provided.

Student Membership Raffle
For just one dollar, you can purchase a raffle ticket to win a free 2014 SVP Student Membership!
Everyone is encouraged to buy tickets. If you win, you can donate the membership to a deserving student colleague. All proceeds from the raffle will benefit the SVP Education and Research Fund, which funds several awards including the Colbert Prize and the Mary R. Dawson Grant.

Purchase your tickets at the student raffle table in the California Foyer, at the Student Roundtable and Reprint Exchange on Thursday, October 31, or look for raffle ticket sellers wearing “Wanna Buy a Raffle Ticket?” buttons throughout the day on Wednesday, October 30, and Thursday, October 31.
31st Annual SVP Benefit Auction
Friday, November 1, 2013
6:30 pm – 12:00 midnight
Pasadena Room, One Level below Lobby Level

Auction items must be dropped off at Beaudry A by noon on Friday, November 1, 2013. Beaudry A will be open from 8:00 am – 5:00 pm Tuesday, October 29, thru Thursday, October 31, and from 8:00 am – 12:00 noon on Friday, November 1 for auction material drop off.

This year’s auction proceeds will benefit the Legacy League of Funds. See the auction flyer included in this program. A cash bar will be provided.

Need help shipping your auction items home?
FedEx Office Print & Ship Center
800 Wilshire Boulevard
Phone: 213-892-1700
Website: http://local.fedex.com/ca/los-angeles/office-1010/
Saturday Hours: 9:00 am – 9:00 pm
Walking Directions from the Westin Bonaventure Hotel & Suites:
- Head southwest on South Figueroa Street toward West 5th Street.
- Turn left onto Wilshire Boulevard. The destination will be on your right.

FedEx Office
Westin Bonaventure Hotel & Suites, Suite 105
Phone: 213-622-2045
Email: usa5531@fedex.com

The FedEx Office located in Suite 105 at the Westin Bonaventure Hotel & Suites will not be open on Saturday, November 2. However you may pick up air bills from the registration desk to ship using your account number or credit card. Once you have filled out the air bill form, you may leave your package at the bell desk, where it will be held until FedEx opens on Monday, November 4.

Awards Banquet
Saturday, November 2, 2013
7:00 pm – 10:00 pm
San Francisco Ballroom, Level 2

Attendees who purchased a full meeting registration are invited to join their colleagues to recognize and honor a few of their own. A ticket is required for admittance to the Awards Ceremony. If you did not choose to attend during pre-registration, you must pick up your ticket at the registration desk by Thursday, October 31.

Additional tickets can be purchased at the registration desk (Adults - $75 USD, Children (under 12 years of age- $30 USD). If you have any special dietary needs, visit the SVP Registration Desk by Thursday, October 31, at noon to pick up your special meal request ticket.

After Hours Party
Saturday, November 2, 2013
10:00 pm – 1:00 am
Pasadena Room, One Level below Lobby Level
Exchange notes, name tags, and goodbyes while celebrating the conclusion of a great week. A cash bar will be provided.
Call for Workshop and Field Trip Proposals

The proposal must not exceed two pages and should include a concise description of the field trip or workshop, including where applicable:

- Title, date, and time (beginning and ending) of activity.
- Purpose and intended outcome.
- Name(s) of organizer(s)/leader(s) and all of their contact information.
- Venue (if space is being requested for the event, please indicate this and the requirements). Note that SVP will provide meeting space complimentary if it is available per the current venue contract. Any additional requested space resulting in extra rental fees must be covered by registration fees.
- A detailed budget for the Field Trip or Workshop. The budget must cover ALL expenses as SVP will NOT absorb any shortfalls. Please include all items such as AV, internet, transportation, admission fees, supplies and materials. These items are reimbursable up to the maximum of collected registration fees for the Field Trip or Workshop. You may not request reimbursement for your time.
- Transportation: (if applicable) on own or provided? If provided: where is/are the exact pick up/drop off point(s). NOTE: rented transportation must secure insurance through the rental company at an amount and level of coverage required by applicable state law. A copy of the insurance certificate must be included with the proposal. If transportation is provided by a leader or other participant, proof of insurance must be provided to the business office at least 120 days prior to the date of the trip. SVP is not liable for any loss, injury, or damage resulting from field trip or workshop participation.
- Cost per person (please factor in the cost of the leaders if they are not to be charged). These costs should consider all the expenses you plan to submit for reimbursement. Note that SVP will add a $5 per person administrative fee to all registration fees to cover credit card processing and other administrative fees.
- Minimum and maximum number of attendees. Please let us know if the maximum and minimum number of attendees is to include the leaders or not, as we must adjust the online registration system accordingly.

Regarding Costs: Leaders will be reimbursed the expenses incurred by running the field trip or workshop, including admission fees, transportation, AV, internet, supplies/materials, any included meals, up to the maximum amount of registration fees collected minus the $5 per administrative fee. Field trip and workshop leaders should send completed reimbursement forms and receipts to the business office after the meeting. Note that any excess revenue generated from registration fees will not be returned to attendees or provided to leaders. Excess funds, if any, remain with SVP and utilized to support the annual meeting.

Advertisement copy for the 2014 SVP meeting circular and Web site is required with the proposal and must include:

- Title, date, and time (beginning and ending) of activity.
- Purpose and intended outcome.
- Venue (if known at the time of the proposal).
- Transportation: (if applicable) on own or provided? If provided: where is the pickup/drop off location (provide specific address).
- Recommended clothing or items to bring (if applicable).
- Materials provided.
- Name(s) of organizer(s)/leader(s) and all of their contact information.
- Cost per person.
- Minimum and maximum number of participants.

Proposals and questions should be sent to Nadia Fröbisch, Host Committee Member at nadia.froebisch@mfn-berlin.de. The deadline for proposal submission is December 9, 2013.

Call for Symposia Proposals

Proposals should include: a concise description of the symposium topic including its significance and specific relevance to the particular meeting time and location (if appropriate), and a list of speakers and preliminary titles. Symposia are two and a half hours or four hours in duration and must include either 10 or 16 presentation slots respectively (all presentations must be limited to 12 minutes each allowing 3 minutes for questions and discussions). This presentation time format will also apply to all other oral presentations (technical and Romer). Five or six poster presentations are also welcome. Proposals should not exceed two pages in length.

As for the technical sessions, all abstracts submitted for the symposia are rigorously reviewed by the Program Committee and subject to rejection. To avoid empty slots in the program, the symposium organizers will be encouraged to pre-review abstracts prior to submission.

Example Symposia text can be viewed in the 2013 Annual Meeting Circular. Please send proposals to SVP Program co-chairs: Jonathan Bloch at: jbloch@flmnh.ufl.edu and Anjali Goswami at: a.goswami@ucl.ac.uk. The deadline for proposal submission is December 9, 2013.
SVP 31st Annual Benefit Auction and Social

Survey a tempting array of casts, books, artwork and other unique VP items!

When: Friday, November 1

Where: Westin Bonaventure Hotel & Suites
        Pasadena Room

Schedule of Events:

6:30 pm  Start of Silent Auction
8:30 pm  End of Silent Auction
9:00 pm  Start of Live Auction
10:30 pm End of Live Auction

Cash bar will be provided.

*Bids must increase in at least $1.00 USD increments. Cash, checks, Visa, MasterCard and American Express accepted. Credit card purchases will be accepted at $10.00 or higher. US funds ONLY.

Auction items must be dropped off at Beaudry A by noon on Friday, November 1, 2013. Beaudry A will be open from 8:00 am – 5:00 pm Tuesday, October 29, thru Thursday, October 31, and from 8:00 am – 12:00 noon on Friday, November 1, for auction material drop off.

Need help shipping your auction items home?
Please see page 8 of this program for more information.

Auction proceeds will benefit the Legacy League of Funds.
Visit the Exhibits – Wednesday, October 30 – Saturday, November 2 
San Diego Ballroom/California Foyer, Level 2 
9:30 AM – 6:15 PM 
* SVP Meeting Sponsor

Anatomy in Clay® Learning System 
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Santa Ana, CA  92701  
Phone: 714-647-2100  
Contact: Meredith Rivin  
Email: mrivin@fullerton.edu  
Booth 24

David Bergman Books  
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Dave Bergman buys and sells used and rare books on Paleontology and Natural History. Visitors welcome.

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Email: bcc@press.jhu.edu  
Web: www.press.jhu.edu  
Booth 22  
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Contact: Nancy Zimmerman  
Email: nz@lanescience.com  
Web: www.lanescience.com

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Email: michaelholland@mail.com  
Web: www.michaelhollandproductions.com  
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Our services to the science/natural history museum community include fossil reconstruction, molding/casting, mounting, exhibit design and fabrication, creation of educational materials and retail products, and more. Over 20 years of experience and supreme attention to detail help our clients to update existing exhibits or display their latest discoveries.

National Geographic Society  
1145 17th Street NW  
Washington, DC  20036  
Phone: 202-862-5284  
Fax: 202-429-5729  
Email: cre@ngs.org  
Web: www.nationalgeographic.com  
Booth 12  
For over 120 years, the National Geographic Society has been providing small grants to researchers, conservationists, and explorers, and then telling their stories to the world. With almost 20 different grant programs, NGS has given out over $18 Million to paleontologists since 1940 and is looking to find new projects to fund.

Natural History Museum of Los Angeles County  
900 Exposition Boulevard  
Los Angeles, CA  90007  
Phone: 212-763-3361  
Web: www.nhm.org/site/research-collections/dinosaur-institute  
Booth 9
Paleontology on Public Lands
20 M Street SE
Washington, DC  20003
Phone: 202-912-7253
Contact: Scott Foss
Email: sfoss@blm.gov
Web: www.blm.gov
Booth 25, 26
Paleontology on Public Lands is a cooperative organization made up of federal land managers and partners who are devoted to: 1) responsible management of paleontological resources on public lands; 2) public awareness about the significance of paleontological resources; and 3) preservation of paleontological resources.

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Web: www.plos.org
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Canada
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Contact: Peter May
Email: pmay@recast.com
Web: www.recast.com
Booth 27
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Fax: 405-794-6985
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Contact: John Bolan
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Web: www.valleyanatomical.com
Booth 21
Valley Anatomical Preparation, Inc.
Replicas of fossils and contemporary Animals.
Westin Bonaventure Hotel & Suites
Meeting Facilities Map

one level below lobby — pasadena room exhibition hall

- Auction Event
- After Hours Party

lobby level — function rooms

- Committee/Other Meetings
- Workshops

level 2 — california ballroom

- Poster Sessions
- Exhibits

- Concurrent Sessions
- Awards Banquet
- Student Roundtable Forum & Reprint Exchange

- Shuttle bus pick up for Welcome Reception at the Natural History Museum of Los Angeles County
- Field Trip pick up

- Registration
- Merchandise Sales
- Student Raffle
- Poster Sessions
- Exhibits
### 2013 SVP Workshop Offerings
*For Pre-Registered Attendees*

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TUE, October 29</strong></td>
<td>9:00am - 4:00pm</td>
<td>Photogrammetry: Digital Data Collection in the Lab and Field</td>
<td>SANTA BARBARA B</td>
<td>9:00am - 5:00pm</td>
<td>Virtual 3D Analysis of Chewing in Mammals – Occlusal Fingerprint Analyser</td>
<td>SAN GABRIEL A</td>
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<td></td>
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<td>Practical Computing for Paleontologists</td>
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<td></td>
<td>2:00pm – 6:00pm</td>
<td>Video Made Easy</td>
<td>SANTA BARBARA C</td>
</tr>
<tr>
<td><strong>WED, October 30</strong></td>
<td>12:30pm – 1:45pm</td>
<td>Paleontology and The Media – Communicating Your Research to the Popular Press</td>
<td>SANTA BARBARA B</td>
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</tbody>
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### 2013 SVP Field Trip Offerings
*For Pre-Registered Attendees*

*All Field Trips will depart from the Figueroa Street Entrance to the Westin Bonaventure Hotel & Suites*

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TUE, October 29</strong></td>
<td>7:00am – 7:00pm</td>
<td>Paleontology and Geology of Orange County, CA</td>
<td></td>
<td>8:30am – 9:00pm</td>
<td>Stratigraphy and Vertebrate Paleontology of the Middle Miocene Barstow Formation, San Bernardino County, CA</td>
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<td></td>
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<td>9:00am – 4:00pm</td>
<td>DreamWorks Animation Studios; Glendale, California</td>
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<td></td>
<td>8:00am – 11:30am</td>
<td>Field Trip to Rancho La Brea</td>
<td></td>
<td>1:00pm – 4:30pm</td>
<td>Fieldtrip to Rancho La Brea</td>
<td></td>
</tr>
<tr>
<td><strong>SUN, November 3</strong></td>
<td>7:00am – 7:00pm</td>
<td>Western Mojave Desert Geology and Vertebrate Paleontology with Special Emphasis on the Dove Spring Formation</td>
<td></td>
<td>7:30am – 6:00pm</td>
<td>Sharktooth Hill National Natural Landmark</td>
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<tr>
<td></td>
<td>8:30am – 5:00pm</td>
<td>Arkareean and Hemingfordian Vertebrate Paleontology of the Santa Monica Mountains National Recreation Area, California</td>
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</table>
## 2013 SVP Schedule of Events (subject to change)

All events are held at the Westin Bonaventure Hotel & Suites unless otherwise noted with an **

<table>
<thead>
<tr>
<th>Event/Function</th>
<th>TUE, October 29</th>
<th>WED, October 30</th>
<th>THUR, October 31</th>
<th>FRI, November 1</th>
<th>SAT, November 2</th>
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<tbody>
<tr>
<td>Registration Desk</td>
<td>12:00pm – 6:00pm</td>
<td>7:00am – 5:00pm</td>
<td>7:00am – 5:00pm</td>
<td>7:30am – 5:00pm</td>
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<tr>
<td><strong>CALIFORNIA FOYER</strong></td>
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<tr>
<td>Symposium</td>
<td>8:00am – 12:15pm</td>
<td>1:45pm – 4:15pm</td>
<td>8:00am – 12:15pm</td>
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<tr>
<td>Ontogeny Changes Everything:</td>
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<td>Paleobiological Implications of</td>
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<tr>
<td>Dinosaur Growth</td>
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<td><strong>SAN FRANCISCO</strong></td>
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<tr>
<td>Romer Prize Session</td>
<td>8:00am – 12:15pm</td>
<td>1:45pm – 4:15pm</td>
<td>8:00am – 12:15pm</td>
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<tr>
<td>Preparators’ Session</td>
<td>8:00am – 12:15pm</td>
<td>1:45pm – 4:15pm</td>
<td>8:00am – 12:15pm</td>
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<tr>
<td>Colbert Student Poster Prize Session</td>
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<td>1:45pm – 4:15pm</td>
<td>8:00am – 12:15pm</td>
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<tr>
<td>Technical Sessions</td>
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<td>Technical Session I Tetrapods,</td>
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<td>Amphibians, Early Diapsids</td>
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<td><strong>SACRAMENTO</strong></td>
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<tr>
<td>Mammal Ecology</td>
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<td>Ornithischian Dinosaurs Hepisaurian</td>
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<td>Technical Session III</td>
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<td>145pm – 4:15pm</td>
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<td>Cenozoic South American Mammals</td>
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<td>Technical Session V</td>
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<td>Lepidosaurmorphia</td>
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<td>Poster Sessions</td>
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<td>Set-up: 7:30am – 9:30 am</td>
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<td>Mixer: 4:15pm – 6:15pm</td>
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<tr>
<td>Exhibit Viewing</td>
<td>9:30am – 6:15pm</td>
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<td>Event/Function</td>
<td>TUE, October 29</td>
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<tr>
<td>SVP Business Meeting and Open Forum</td>
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<td>12:30pm – 1:30pm</td>
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<td>SAN FRANCISCO</td>
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<td>Preparators’ Meeting</td>
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<td>2:00pm – 3:30pm</td>
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<td>SANTA BARBARA ABC</td>
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<tr>
<td>Press Event</td>
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<td>4:00pm – 6:00pm</td>
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<td>SAN GABRIEL BC</td>
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<tr>
<td>Special Events</td>
<td>7:00pm</td>
<td>7:00pm – 10:00pm</td>
<td>7:30pm – 11:30pm</td>
<td>6:00pm – 12:00am</td>
<td>7:00pm – 10:00pm</td>
</tr>
<tr>
<td>Special Presentation by Dr. Tim D. White from the University of California, Berkeley</td>
<td>7:00pm – 10:00pm Welcome Reception **NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY</td>
<td>7:30pm – 11:30pm Student Roundtable Forum and Reprint Exchange SACRAMENTO</td>
<td>6:00pm – 9:00pm History of Vertebrate Paleontology Symposium **NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY</td>
<td>6:00pm – 12:00am Auction PASADENA ROOM</td>
<td>10:00pm – 1:00am After Hours Party PASADENA ROOM</td>
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<tr>
<td>Special Events</td>
<td>7:00am – 4:00pm</td>
<td>7:00am – 4:00pm</td>
<td>7:00am – 4:00pm</td>
<td>7:00am – 4:00pm</td>
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<tr>
<td>Speaker Ready Room</td>
<td>BEAUDRY B</td>
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## PROGRAM AT A GLANCE

### Symposium: Ontogeny Changes Everything: Paleobiological Implications of Dinosaur Growth

<table>
<thead>
<tr>
<th>San Francisco</th>
<th>Sacramento</th>
<th>San Jose</th>
<th>San Francisco</th>
<th>Sacramento</th>
<th>San Jose</th>
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</thead>
<tbody>
<tr>
<td>Technical Session I</td>
<td>Technical Session II</td>
<td>Romer Prize Session</td>
<td>Technical Session VI</td>
<td>Preparators’ Session</td>
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### Technical Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Larsson, Cloutier, Tseng, Bonde, Loggren, Kurtova</td>
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<tr>
<td>8:15 am</td>
<td>Werning, Kawano, Donohue, Brasse, Simmons, Lund</td>
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<tr>
<td>8:30 am</td>
<td>Horner, Sears, Saarinen, Brusatte, Gunnell, De Blieux</td>
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<tr>
<td>8:45 am</td>
<td>Woodward, Leary, DeSantis, Drewicz, Fadian, Smith</td>
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<tr>
<td>9:00 am</td>
<td>Evans, Anderson, Barron-Ortiz, Drumheller, Manz, Van Beek</td>
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<tr>
<td>9:15 am</td>
<td>Scannella, Eltink, Calvin, Evans, Hooker, Bugbee</td>
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<tr>
<td>9:30 am</td>
<td>Morris, Fröbisch, Hopkins, Fischer, Dunn, Baziak</td>
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<tr>
<td>9:45 am</td>
<td>Kruk, Maddin, Famoso, Huttenlocker, Stroik, Rice</td>
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<tr>
<td>10:15 am</td>
<td>Goodwin, Dias-Da-Silva, Gould, Kelley, Stevens, Brown</td>
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<tr>
<td>10:30 am</td>
<td>Reisz, Evans, Fox, Kimura, Borths, Vital</td>
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<tr>
<td>10:45 am</td>
<td>Sander, Chen, Pineda Munoz, Lautenschlager, Zack, Marcos</td>
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<tr>
<td>11:00 am</td>
<td>Woodruff, Sereno, Caled, Nakajima, Beard, Norris</td>
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<tr>
<td>11:15 am</td>
<td>Carrano, Leblanc, McHorse, Neenan, Schwermann, Getty</td>
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<tr>
<td>11:30 am</td>
<td>Varriocchio, Bährer, Den Boer, Stocker, Hiard, Brown</td>
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<tr>
<td>11:45 am</td>
<td>Dial, Excurra, Cuozzo, Tomiya, Bibo, Lash</td>
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<tr>
<td>12:00 pm</td>
<td>Fowler, Chure, Miller, Tschopp, Mihlbachler, Rhue</td>
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### Break

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1:30 pm</td>
<td>Break</td>
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### Symposium: La Brea and Beyond: The Paleontology of Asphalt-Preserved Biotas

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<thead>
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<th>San Jose</th>
<th>San Francisco</th>
<th>Sacramento</th>
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<tbody>
<tr>
<td>Technical Session III</td>
<td>Technical Session IV</td>
<td>Technical Session V</td>
<td>Technical Session VII</td>
<td>Symposium: La Brea and Beyond: The Paleontology of Asphalt-Preserved Biotas</td>
<td>Technical Session VIII</td>
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<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:45 pm</td>
<td>Nabavizadeh, Croft, Apesteguia, Porter, Harris, Brocklehurst</td>
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<tr>
<td>2:00 pm</td>
<td>Spencer, Luna, Head, Eagle, Rincón, Castanhinha</td>
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<tr>
<td>2:15 pm</td>
<td>Loewen, West, Delfino, Sobral, Seymour, Kammerer</td>
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<tr>
<td>2:30 pm</td>
<td>Arbour, Tejada Lara, Kemp, Jerison, Martinez, Day</td>
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<tr>
<td>2:45 pm</td>
<td>Maiorino, Stromberg, Demar, Campione, Lindsey, Krentzel</td>
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<tr>
<td>3:00 pm</td>
<td>Farke, Bloch, Conrad, Tsai, Campbell, Botha-Brink</td>
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<tr>
<td>3:15 pm</td>
<td>Currie, Morgan, Richter, Sellers, Brannick, Owerkowicz</td>
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<tr>
<td>3:30 pm</td>
<td>Hedrick, Macfadden, Konishi, Brown, Haupt, Crompton</td>
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<td>3:45 pm</td>
<td>Bourke, Barnosky, Sato, Bell, Shaw, Ruf</td>
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<tr>
<td>4:00 pm</td>
<td>Mallon, Koch, Scheyer, Benson, McDonald, Mancuso</td>
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<tr>
<td>4:15 pm</td>
<td>Poster Session I</td>
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<td>6:15 pm</td>
<td>Poster Session II</td>
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<tr>
<td>Time</td>
<td>San Francisco</td>
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<tr>
<td>8:00 am</td>
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<td>8:15 am</td>
<td>Gates</td>
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<td>9:00 am</td>
<td>Burch</td>
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<td>9:15 am</td>
<td>Miyashita</td>
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<td>9:30 am</td>
<td>Lee</td>
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<td>Balanoff</td>
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<td>10:15 am</td>
<td>Kobayashi</td>
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<td>Morhardt</td>
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<td>10:45 am</td>
<td>Persons</td>
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<td>11:00 am</td>
<td>Smith</td>
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**Poster Session III**

**Poster Session IV**
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WEDNESDAY MORNING, OCTOBER 30, 2013
Symposium 1: Ontogeny Changes Everything: Paleobiological Implications of Dinosaur Growth
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
MODERATORS: John Scannella and Denver Fowler

8:00 Larsson, H., Du, T. INTERPRETING DINOSAUR ONTOGENY AT SCALES FROM EMBRYOS TO BONE MICROSTRUCTURE TO PHENOTYPIC COVARIANCE
8:15 Werning, S. WHAT ARE WE ACTUALLY MEASURING? AN EVALUATION OF OSTEOHISTOLOGICAL INDICATORS OF DINOSAURIAN GROWTH RATE
8:30 Horner, J., Rife, J. ONTOGENETIC ASSESSMENT OF DINOSAURS USING CRANIAL AND POSTCRANIAL OSTEOHISTOLOGY
8:45 Woodward, H., Horner, J., Freedman Fowler, E. PREDICTING PEAK PERFORMANCE AND SENESCENCE IN THE ORNITHOPOD DINOSAUR MAIASAURA PEEBLESORUM
9:00 Evans, D., Campione, N., Brink, K., Schott, R., Brown, C. WASTED YOUTH: THE IMPORTANCE OF ONTOGENICALLY EQUIVALENT SEMAPHORONTS IN DINOSAUR PHYLOGENETIC SYSTEMATICS
9:15 Scannella, J., Fowler, D., Goodwin, M., Horner, J. THE CLANDESTINE ROLE OF HETEROCHRONY IN CERATOPSIAN EVOLUTION AS REVEALED BY JUVENILE TRICERATOPS
9:30 Morris, Z., Burroughs, R., Colbert, M. DEVELOPMENTAL VARIATION COMPLICATES RECONSTRUCTIONS OF SKELETAL ONTOGENY OF EXTINCT VERTEBRATES: A LESSON FROM TRICERATOPS AND TOROSAURUS
9:45 Kruk, B., Burns, M., Currie, P. HISTOLOGICAL STUDY OF CRANIAL ELABORATION IN CERATOPSIAN DINOSAURS: FUNCTIONAL & DEVELOPMENTAL IMPLICATIONS
10:00 BREAK
10:15 Goodwin, M., Horner, J., Schott, R., Evans, D. NEW DATA ON DEVELOPMENTAL CRANIAL ONTOGENY IN PACHYCEPHALOSAURS
10:30 Reisz, R., Leblanc, A., Sullivan, C., Huang, T. EMBRYONIC DEVELOPMENT OF A SAUROPODOMORPH DINOSAUR FROM THE EARLY JURASSIC OF CHINA, PATTERNS OF OSSIFICATION AND GROWTH
10:45 Sander, P., Griebeler, E., Klein, N. AGING, MATURATION AND GROWTH OF SAUROPODOMORPH DINOSAURS: EVIDENCE FROM THE HISTOLOGICAL GROWTH MARK RECORD IN LONG BONES
11:00 Woodruff, C., Fowler, D., Horner, J. CHANGES IN VERTEBRAL MORPHOLOGY ASSOCIATED WITH HISTOLOGIC DATA SUPPORT SIGNIFICANT CHANGE THROUGH ONTOGENY IN DIPLODOCID SAUROPODS
11:15 Carrano, M., Mateus, O., Mitchell, J. FIRST DEFINITIVE ASSOCIATION BETWEEN EMBRYONIC ALLOSAUROIDEA BONES AND PRISMATOOLITHUS EGGS IN THE MORRISON FORMATION (UPPER JURASSIC, WYOMING, USA)
11:30 Varricchio, D. WOUNDING-TOOTH GROWS UP: ONTOGENY IN THE CRETACEOUS THEROPOD TROODON FORMOSUS
11:45 Dial, K. P. FUNCTION OF RUDIMENTARY LOCOMOTOR STRUCTURES IN THE ECOLOGY OF BIRDS: EVOLUTIONARY IMPLICATIONS
12:00 Fowler, D., Freedman Fowler, L., Scannella, J., Horner, J. THE INFLUENCE OF MULTI-NICHE ONTOGENY ON DIFFERENTIAL SURVIVORSHIP ACROSS THE K-PG BOUNDARY

WEDNESDAY MORNING, OCTOBER 30, 2013
Technical Session I
Westin Bonaventure Hotel & Suites, Sacramento Ballroom
MODERATORS: Nadia Froebisch and Sergio Dias-Da-Silva

8:00 Cloutier, R., Béchard, I. A NEW PIECE OF THE DEVONIAN FISH-TO-TETRAPOD PUZZLE: THE DISCOVERY OF A COMPLETE SPECIMEN OF ELPISTOSTEGIS
8:15 Kawano, S., Blob, R. FUNCTIONAL COMPARISONS BETWEEN FINS AND LIMBS DURING TERRESTRIAL LOCOMOTION: BIOMECHANICAL IMPLICATIONS FOR THE EVOLUTIONARY INVASION OF LAND
8:30 Sears, K., Mabee, P., Dececchi, A. EVOLUTION OF APPENDAGE MODULARITY DURING THE FIN TO LIMB TRANSITION
8:45 Leary, B., Kavanagh, K. TWO IF BY LAND, ONE IF BY SEA? EVIDENCE FOR MAJOR TRANSITIONS IN DIGIT MODULARITY OVER TETRAPOD EVOLUTION
9:00 Anderson, J., Pardo, J., Germain, D., Ahlberg, P. THREE DIMENSIONAL MICRO-CT STUDY OF THE AÏSTOPOD CRANIUM REVEALS HIDDEN MORPHOLOGICAL DIVERSITY AMONG THE EARLY TETRAPOD RADIATION

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9:00 Eltink, E., Langer, M.  A NEW SPECIMEN OF THE TEMNOSPONDYL AUSTRALERPETON COSGRIFFI FROM THE LATE PERMIAN OF BRAZIL (RIO DO RASTO FORMATION, PARANÁ BASIN): NEW ANATOMICAL INFORMATION AND PHYLGENETIC RELATIONSHIPS.

9:30 Froebisch, N., Witzmann, F., Bickelmann, C.  LIMB ABNORMALITIES IN THE DISSOROPHOID AMPHIBIAN MICROMELERPETON CREDNERI - PRIMARY PATHOLOGY OR FAILED REGENERATION?

9:45 Maddin, H., Froebisch, N., Evans, D., Milner, A.  REAPPRAISAL OF THE EARLY PERMIAN AMPHIBAMID TERSOMIUS TEXENSIS AND SOME REFERRED MATERIAL.

10:00 BREAK

10:15 Dias-Da-Silva, S., Hewison, R.  PHYLOGENETIC ANALYSIS AND PALAEOBIOGEOGRAPHY OF THE PANGAEAN LOWER TRIASSIC LYDEKKERINIDAE (TEMNOSPONDYLI, STEREOSPONDYLI)

10:30 Evans, S., Groenke, J., Jones, M., Turner, A., Krause, D.  BIG, BAD, AND BIZARRE: NEW MATERIAL OF BEELZEBUFO, A HYPEROSSIFIED ANURAN FROM THE LATE CRETACEOUS OF MADAGASCAR, YIELDS FURTHER SURPRISES.


11:00 Sereno, P., Isch, A., Conroy, L.  SHOULDER GIRDLE ARCHITECTURE: A MAJOR CONSTRAINT IN THE EVOLUTION OF AMNIOTE LOCOMOTION

11:15 Leblanc, A., Brink, K., MacDougall, M., Reisz, R.  PHYLOGENETIC PATTERNS AND FUNCTIONAL INTERPRETATIONS OF AMNIOTE PLICIDENTINE

11:30 Böhmer, C., Rauhut, O., Würheide, G.  NEW INSIGHTS INTO THE DEVELOPMENT AND EVOLUTION OF THE VERTEBRAL COLUMN IN ARCHOSAURS

11:45 Ezcurre, M., Butler, R., Scheuer, T.  THE PERMIAN ARCHOSAUROMORPH RECORD REVISITED: A NEW SPECIES FROM TANZANIA AND THE POTENTIALLY OLDEST ARCHOSAURIFORM


WEDNESDAY MORNING, OCTOBER 30, 2013
Technical Session II
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Samantha Hopkins and Francois Gould

8:00 Tseng, Z., Martin-Serra, A., Figueirido, B.  PROFILING THE DUROPHAGE: CONVERGENT SKULL SHAPE EVOLUTION BETWEEN BONE AND BAMBOO SPECIALISTS


8:30 Saarinen, J., Karme, A., Uno, K., Saila, L.  NEW APPROACH TO MAMMALIAN PALEOECOLOGY - OCCLUSAL WEAR ANGLES OF MOLAR TEETH AS A MEASURE OF DIET ABRASIVENESS IN ELEPHANTS AND THEIR FOSSIL RELATIVES (MAMMALIA, PROBOSCIDEA)

8:45 Desantis, L., Scott, J., Schubert, B., Donohue, S., Mccray, B.  DIRECT COMPARISONS OF 2D AND 3D DENTAL MICROWEAR PROXIES IN EXTANT HERBIVOROUS AND CARNIVOROUS MAMMALS: THE IMPORTANCE OF DEPTH AND OBSERVER CONSISTENCY FOR RESOLVING DIET

9:00 Barron-Ortiz, C., Mihlbachler, M., Rankin, B., Theodor, J.  INVESTIGATING THE APPLICABILITY OF OUTLINE-BASED GEOMETRIC MORPHOMETRIC TECHNIQUES TO THE STUDY OF UNGULATE MESOWEAR

9:15 Cavin, J., Samuels, J.  MESOWEAR AND HYSPSODONTY THROUGH TIME IN HYPERTRAGULIDS (ARTIODACTYLA) FROM THE TURTLE COVE MEMBER OF THE JOHN DAY FORMATION OF OREGON

9:30 Hopkins, S.  DIFFERENTIAL TIMING OF HYSPSODONTY EVOLUTION IN LARGE AND SMALL MAMMALS INDICATES COMPLEX FORCING OF CROWN HEIGHT EVOLUTION

9:45 Famoso, N., Davis, E.  FRACTAL DIMENSIONALITY AS A MEASURE OF OCCLUSAL ENAMEL COMPLEXITY IN EQUIDAE (MAMMALIA: PERISSODACTYLA)

10:00 BREAK

10:15 Gould, F.  TO 3D OR NOT TO 3D: DO 3D SURFACE ANALYSES IMPROVE ECOMORPHOLOGICAL INFERENCE?

10:30 Fox, D., Keller, J., Haveles, A., Bagley, B.  DIETARY RECONSTRUCTION OF PLIO-PLEISTOCENE RODENTS FROM SOUTHWEST KANSAS USING STABLE CARBON ISOTOPES AND THREE DIMENSIONAL TOOTH SHAPE METRICS

10:45 Pineda Munoz, S., Evans, A.  WHICH TOOTH BEST REPRESENTS WHOLE TOOTH ROW DENTAL COMPLEXITY IN MAMMALS?
Wednesday Afternoon, October 30, 2013

Technical Session III
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
Moderators: Mark Loewen and Andrew Farke

1:45 Nabavizadeh, A. Jaw Mechanics in Ornithischian Dinosaurs and the Evolutionary Relationship Between Morphology and Bite Force
2:00 Spencer, M. Phylogenetic and Biogeographic Assessment of Ornithischian Diversity Throughout the Mesozoic: A Species-Level Analysis of Phylogeny From Origin to Extinction
2:15 Loewen, M., Kirkland, J. The Evolution and Biogeographic Distribution of Ankylosauria: New Insights From a Comprehensive Phylogenetic Analysis
2:30 Arbour, V., Currie, P. The Origin of the Ankylosaurid Tail Club
2:45 Maiorino, L., Farke, A., Kotsakis, T., Piras, P. Cranial and Mandibular Shape Changes During the Evolution of Ceratopsian Dinosaurs
3:00 Farke, A., Maxwell, D., Cifelli, R., Wedel, M. Biogeography of Basal Neoceratopsian Dinosaurs Illuminated by a Skull from the Cloverly Formation (Lower Cretaceous) of Montana
3:15 Currie, P., Holmes, R., Ryan, M., Coy, C., Koppelhus, E. The Smallest, Articulated Ceratopsid (Dinosauria)
3:30 Hedrick, B., Dodson, P. Lujiatun Psittacosaurids: Understanding Individual and Taphonomic Variation Using 3D Geometric Morphometrics
3:45 Bourke, J., Porter, W., Lyson, T., Schachner, E., Bell, P. Nasal Turbinates in Pachycephalosaurids (Dinosauria: Ornithischia): Reconstructing Nasal Anatomy and Airflow, with Implications for Physiology
4:00 Mallon, J., Evans, D. Pachycephalosaur Domes: Allochthonous or Autochthonous?

Wednesday Afternoon, October 30, 2013

Technical Session IV
Westin Bonaventure Hotel & Suites, Sacramento Ballroom
Moderators: Anthony Barnosky and Darin Croft

1:45 Croft, D., Anaya, F., Catena, A., Ciancio, M., Engelman, R. New Species, Local Faunas, and Paleoenvironmental Data for the Middle Miocene Quebrada Honda Fauna, Bolivia
2:00 Luna, D., Flynn, J., Croft, D., Wyss, A. Taxonomy, Biogeography, and Phylogeny of Miocene Endemic South American Ungulates (Mammalia) from the Laguna del Laja Region, Andean Main Range, Central Chile
2:15 West, A., Flynn, J., Croft, D., Wyss, A. A Quantitative Model for Morphological Evolution in the Interatheriidae (Typhotheria, Notoungulata, Mammalia) as a Response to Climatic and Tectonic Changes
2:30 Tejada Lara, J., Macfadden, B., Antoine, P., Flynn, J., Salas Gismondi, R. Evolution of Miocene Amazonian Ecosystems: Can Old Mammals Reveal Something New?
2:45 Stromberg, C., Dunn, R., Madden, R., Kohn, M., Carlini, A. Where Have All the Grasses Gone? New Middle Miocene Phytolith Records Reveal That Grasslands Played a Minor Role in Hypsodonty Evolution in Southern South America
3:00 Bloch, J., Wood, A., Rincon Burbano, A., Woodruff, E., Foster, D. First Fossils of a Platyrrhine Monkey from Panama Provide Evidence for Mammalian Dispersal Across the Central American Seaway in the Early Miocene
3:15 Morgan, G., Czaplewski, N., Rincon, A., Wood, A., Macfadden, B. An Early Miocene Bat (Chiroptera: Phyllostomidae) from Panama and Mid Cenozoic Chiropteran Dispersals Between the Americas
3:30 Macfadden, B.  AGE OF THE TARIJA FAUNA, BOLIVIA: IMPLICATIONS FOR EQUUS DISPERSAL AND CALIBRATION OF GABI 3
3:45 Barnosky, A., Lindsey, E., Villavecencio, N., Marshall, C.  ESTABLISHING THE CHRONOLOGY OF QUATERNARY MEGAFUANA EXTINCTION IN SOUTH AMERICA
4:00 Koch, P., Pires, M., Guimaraes, P.  THE ROLE OF NETWORK STRUCTURE IN PLEISTOCENE MEGAFUANO EXTINCTIONS

WEDNESDAY AFTERNOON, OCTOBER 30, 2013
Technical Session V
Westin Bonaventure Hotel & Suites, San Jose
Ballroom MODERATORS: Massimo Delfino and Takuya Konishi

1:45 Apesteguia, S., Garberoglio, F.  THE RETURN OF NAJASH: NEW, BETTER PRESERVED SPECIMENS CHANGE THE FACE OF THE BASALMOST SNAKE
2:00 Head, J., Bloch, J., Moreno-Bernal, J., Rincon Burbano, A., Bourque, J.  CRANIAL OSTEOLOGY, BODY SIZE, SYSTEMATICS, AND ECOLOGY OF THE GIANT PALEOCENE SNAKE TITANOBOLA CERREJONENSIS
2:15 Delfino, M., Bolet, A., Fortuny, J., Robles, J., Alba, D.  A NEW EXTINCT SPECIES OF BLANUS (AMPHISBAENIA, BLANIDAE) FROM THE IBERIAN MIocene BASED ON THE FIRST KNOWN EUROPEAN AMPHISBAENIAN FOSSIL SKULL
2:30 Kemp, M., Hadly, E.  SIZE-BIASED EXTINCTION EXHIBITED BY QUATERNARY CARIBBEAN LIZARDS
2:45 Demar, D., Wilson, G.  SQUAMATE TURNOVER IN THE 2 MILLION YEARS LEADING UP TO AND ACROSS THE K-PG BOUNDARY IN NORTHEASTERN MONTANA: EVIDENCE FOR A COMPLEX EXTINCTION SCENARIO
3:00 Conrad, J., Wang, Y., Xu, X., Pyron, A., Clark, J.  SKELETON OF A HEAVILY ARMORED AND LONG LEGGED MIDDLE JURASSIC LIZARD (SQUAMATA, REPTILIA)
3:15 Richter, A., Knötschke, N., Kosma, R., Sobral, G., Wings, O.  THE FIRST MESOZOIC LIZARD FROM NORTHERN GERMANY (PARAMACELLODIDAE, LATE JURASSIC, LANGENBERG QUARRY) AND ITS TAPHONOMY
3:30 Konishi, T., Newbrey, M., Caldwell, M.  WHO GETS TO EAT WHAT: NICHE PARTITIONING BETWEEN PHYLOGENETICALLY CLOSELY RELATED BUT MORPHOLOGICALLY DISPARATE MOSASAURS (MOSASAUROIDAE: MOSASAUROIDEA), MOSASAURUS MISSOURIENSIS AND PROGNATHODON OVERTONI, BASED ON NEW MATERIAL FROM THE UPPER CAMPANIAN BEARPAW FORMATION, ALBERTA CANADA
4:00 Scheyer, T., Neenan, J.  BONE HISTOLOGY OF PLACODONT MARINE REPTILES (SAUROPTERYGIA) FROM EUROPE

WEDNESDAY AFTERNOON, OCTOBER 30, 2013
Poster Session I
Westin Bonaventure Hotel & Suites, Exhibit Hall
Authors must be present from 4:15 - 6:15 p.m.
Posters must be removed by 6:30 p.m.

1 Sadleir, R., Makovicky, P., Hutchinson, J.  COMPARATIVE MASS ESTIMATE METHODS OF 3D DIGITAL MODELS OF ORNITHISCHIAN SKELETONS AND GASTROLITHS
2 White, D.  PHYLOGENETIC VERSUS SERIAL VARIATION IN THE ORNITHISCHIAN DINOSAUR AXIAL SKELETON: A GEOMETRIC MORPHOMETRIC STUDY
3 Poole, K.  FINITE ELEMENT ANALYSIS OF THE CARPUS OF CAMPTOSAURUS AND THE EVOLUTION OF CARPAL FUSION IN ANKYLOPOLELEXIA

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Takasaki, R., Kobayashi, Y., Chiba, K. REANALYSIS OF *NIPPOSAURUS SACHALINENSIS* (ORNITHOPTODA: DINOSAURIA) FROM UPPER CRETACEOUS OF SOUTHERN SAKHALIN AND ITS PHYLOGENETIC STATUS WITHIN LAMBEOSAURINAES

Marquart, C. MORPHOMETRIC APPROACHES TO TAXONOMIC QUESTIONS IN IGUANODONTIAN DINOSAURS

Clayton, K., Loewen, M., Irmis, R. PHYLOGENETIC UTILITY OF HADROSAURID DINOSAUR (ORNITHISCHIA: ORNITHOPTODA) INTEGRUMENTARY IMPRESSIONS

Prieto-Marquez, A., Serrano Brañas, C., Torres Rodriguez, E., Reyes Luna, P., Espinosa Chávez, B. JUVENILE SAUROLOPHINE SPECIMENS (DINOSAURIA: HADROSAURIDAE) FROM THE LATE CAMPANIAN (CRETACEOUS) OF NORTHEASTERN MEXICO

Rivera-Sylva, H., Barrón, C. DENTAL MICROWEAR ANALYSIS OF THE LATE CRETACEOUS (LATE CAMPANIAN) HADROSUROID DINOSAUR (ORNITHISCHIA, HADROSAUROIDEA) FROM THE WOODBINE FORMATION OF TEXAS

Kay, D., Erickson, G., Norell, M. EVOLUTION OF CERATOPSID DENTAL MICROSTRUCTURE

Morschhauser, E., Lamanna, M. A REEVALUATION OF THE OSSIFIED HYOID APPARATUS OF *PROTCERATOPS ANDREWSI* (ORNITHISCHIA: CERATOPSIA) AND A REVIEW OF HYOID ELEMENTS IN ORNITHISCHIAN DINOSAURS

Varriale, F. THE UNIQUE PREMAXILLARY DENTITION OF *YINLONG DOWNSI*, AND THE MORPHOLOGY, FUNCTION, AND EVOLUTION OF PREMAXILLARY TEETH IN CERATOPSID

Ryan, M., Holmes, R., Mallon, J. A NEW REILICT BASAL CERATOPSID FROM THE OLDMAN FORMATION (CAMPANIAN) OF ALBERTA WITH IMPLICATIONS FOR CENTROSUARINE EVOLUTION

Tanoue, K., Li, D., You, H. TOOTH REPLACEMENT PATTERN IN MAXILLARY DENTITION OF BASAL NEOCERATOPSIS (ORNITHISCHIA, DINOUSAURIA) TESTING ADAPTIVE HYPOTHESES FOR ANTERIOR CERVICAL FUSION IN CERATOPSIS


Kirkland, J., Alcala, L., Loewen, M., Espilez, E., Mampel, L. NEW NODOSAURID ANKYLOSAUR (DINOSAURIA) FROM THE LOWER ALBIAN ESCUCHA FORMATION, TERUEL, SPAIN REVEALS THAT SINCE THEIR APTIAN ORIGIN, NODOSAURID SPECIES IN NORTH AMERICA AND EUROPE DEFINE PALEOBIOGEOGRAPHICALLY SEPARATE CLADES

Alicea, J., Loewen, M. NEW MINOTAURASAURUS MATERIAL FROM THE DJODOKTA FORMATION ESTABLISHES NEW TAXONOMIC AND STRATIGRAPHIC CRITERIA FOR THE TAXON

Wiersma, J., Irmis, R. A NEW ANKYLOSAURID DINOSAUR (ORNITHISCHIA: THYREOPHORA) FROM THE UPPER CAMPANIAN KAIPAROWITS FORMATION OF GRAND STAIRCASE-ESCALANTE NATIONAL MONUMENT, SOUTHERN UTAH

Yang, J., You, H., Li, D., Kong, D. A NEW ANKYLOSAUR DINOSAUR FROM THE EARLY CRETACEOUS HEKOU GROUP OF LANZhou-MINHE BASIN, NORTH-CENTRAL CHINA

Sullivan, R., Arbour, V., Burns, M., Lucas, S. A NEW ANKYLOSAURID DINOSAUR (ORNITHISCHIA, ANKYLOSAURIA) FROM THE UPPER CRETACEOUS KIRTLAND FORMATION, SAN JUAN BASIN, NEW MEXICO, USA

Bramble, K., Arbour, V., Currie, P. INTERPRETING THE FACIAL INTEGUMENT OF ANKYLOSAURS

Burns, M., Hayashi, S., Currie, P., Watabe, M. GROWTH, DEVELOPMENT, AND THE PROBLEM OF ANKYLOSAURIAN ONTOGENY


Kato, T., Tanabe, K. TOOTH IMPLANTATION AND REPLACEMENT IN POLYCOTYLID PLESIOSAURS

Byrd, C. ONTOGENETIC VARIATION AMONG POLYCOTYLID PLESIOSAURS (SAUROPTERYGIA: PLESIOSAURIA) AND ITS IMPLICATIONS FOR PLESIOSAUR GROWTH

Serratos, D. J., Druckenmiller, P. OSTEOLOGY OF A NEW SPECIMEN OF AN ELASMOSAURID PLESIOSAUR (REPTILIA: SAUROPTERYGIA) FROM THE UPPER CRETACEOUS BEARPAW SHALE, MONTANA

Araujo, R., Lindgren, J., Jacobs, L., Polcyn, M., Schulp, A. PHYLOGENY AND PAEDOMORPHISM IN ANGOLAN MAASTRICHTIAN ELASMOSAURIDS

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THURSDAY MORNING, OCTOBER 31, 2013

Preparators' Session
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: William Simpson and Steve Jabo

8:00 Kurtova, A., Kharlamova, A., Protopopov, A., Plotnikov, V., Potapova, O. THE YUKA WOOLLY MAMMOTH (MAMMUTHUS PRIMIGENIUS BLUM) BRAIN EXTRACTION AND PRESERVATION: THE METHODS AND RESULTS

8:15 Lund, E., Lawrence, D. UNDER THE HEADWALL: FIELD LOGISTICS OF EXCAVATING FOSSILS FROM LARGE VERTICAL EXPOSURES

8:30 De Blieux, D., Kirkland, J., Madsen, S. TARPOLOGY 501 - ADVANCED SHADE TARP TECHNIQUES FOR PALEONTOLOGICAL FIELD EXCAVATIONS; STRATEGIES FOR FIELD PALEONTOLOGY ON A WARMING PLANET

8:45 Smith, M. CUTTING OUT THE MIDDLE MAN: ARCHIVAL SUPPORT CRADLE DESIGN FOR USE DURING PREPARATION

9:00 Van Beek, C. A FINE KETTLE OF FISH: PREPARATION OF A LARGE CRETACEOUS FIELD JACKET CONTAINING MULTIPLE ASIENCERIFORMES

9:15 Bugbee, M., Wilkins, W. DAMAGE CONTROL, SAFETY, AND PREPARATION ON A VOLUNTEER-BASED EXCAVATION OF AN IN SITU BONEBED AT THE MAMMOTH SITE OF HOT SPRINGS, SD, INC.

9:30 Baziak, B. PREPARATION OF A CROCODYLIFORM AND SAUROPOD DINOSAUR FROM MONTANA: SOLUTIONS TO COMPLEX MOLDING PROBLEMS

9:45 Rice, K., Lai, K., Sessions, A., Takeuchi, G. NEW TECHNIQUE TO REMOVE ASPHALT FROM MICROFOSSIL-RICH MATRIX FROM RANCHO LA BREA

10:00 BREAK

10:15 Brown, G. PRACTICAL METHODS FOR THE USE OF CYCLODECANE IN VERTEBRATE MICROFOSSIL PREPARATION


10:45 Marcos, F., Blanco, M., Diaz, S., Ortega, F. LASER CLEANING OF MACROVERTEBRATE FOSSILS FROM THE UPPER CRETACEOUS SITE OF “LO HUECO” (CUENCA, SPAIN)

11:00 Norris, C., Yarborough-Fitzgerald, V., Fox, M. MOVING MARSH’S DINOSAURS INTO THE 21ST CENTURY

11:15 Getty, M. MOVING COLLECTIONS INTO THE NEW NATURAL HISTORY MUSEUM OF UTAH

11:30 Brown, M. FOSSIL SPECIMENS AS THEORETICAL MODELS

11:45 Lash, C., Smith, M., Parker, W. A TALE OF TWO EXHIBITS: THE FOSSIL PREPARATOR AS AN INTEGRAL PART OF MUSEUM OUTREACH
Rhue, V.  IMPARTING OUR KNOWLEDGE: EDUCATING THE NEXT GENERATION OF FOSSIL PREPARATORS AND COLLECTIONS PERSONNEL

THURSDAY MORNING, OCTOBER 31, 2013
Romer Prize Session
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
MODERATORS: David Fox and Ken Angielczyk

8:00  Bonde, A.  STABLE ISOTOPE PALEOECOLOGY OF LATE PLEISTOCENE MEGAHERBIVORES FROM WESTERN NORTH AMERICA
8:15  Brassey, C.  HIND LIMB ROBUSTICITY IN TWO FAMILIES OF SOUTH ISLAND NEW ZEALAND MOA (AVES, DINORNITHIFORMES) COMPARED TO MODERN RATITES: NEW VOLUMETRIC BODY MASS ESTIMATES AND FINITE ELEMENT ANALYSIS
8:30  Brusatte, S.  THE PHYLOGENY OF COELUROSAURIAN THEROPODS (ARCHOSAURIA: DINOSAURIA) AND PATTERNS OF MORPHOLOGICAL EVOLUTION DURING THE DINOSAUR-BIRD TRANSITION
8:45  Drewicz, A.  QUANTIFYING PERIODS OF DIFFUSION IN MARINE AND TERRESTRIAL MAMMALIAN VERTEBRATE FOSSILS USING RARE EARTH ELEMENTS
9:00  Drumheller, S.  PHYLOGENETIC TAPHONOMY: SYNTHESIZING BITE MARK DATASETS USING STATISTICAL AND CLADISTIC METHODS
9:15  Evans, T.  EMPIRICAL AUTHENTICATION OF OUR UNDERSTANDING OF FLUVIAL TAPHONOMIC PROCESSES
9:30  Fischer, V.  THE EXTINCTION OF Ichthyosaurs IS A FACET OF A MAJOR CENOMANIAN TURNOVER IN MARINE ECOSYSTEMS
9:45  Huttenlocker, A.  THE MEANING AND MECHANISM OF 'LILLIPUT' PATTERNS IN NONMAMMALIAN THERAPSIDS IN THE AFTERMATH OF THE END-PERMIAN EXTINCTION
10:00  BREAK
10:15  Kelley, N.  ECOMORPHOLOGICAL DIVERSITY OF TRIASSIC MARINE REPTILES
10:30  Kimura, Y.  DENTAL ADAPTATIONS LINKED TO ISOTOPIC DIET AND EVOLUTIONARY PATTERN IN MURINE RODENTS FROM THE MIocene OF PAKISTAN
10:45  Lautenschlager, S.  UNRAVELING THERIZINOSAUR PALEOBIOLOGY - A MULTI-ANGLE APPROACH
11:00  Nakajima, Y.  ESTIMATION OF THE BONE GROWTH CENTER USING INNER BONE STRUCTURAL FEATURES AND ITS APPLICATION FOR PALEOHISTOLOGY
11:15  Neenan, J.  ORIGINS, SYSTEMATICS AND PALEOECOLOGY OF PLACODONT MARINE REPTILES (SAUROPTERYGIA, PLACODONTIA)
11:30  Stocker, M.  CONTEXTUALIZING VERTEBRATE FAUNAL DYNAMICS: NEW PERSPECTIVES FROM THE TRIASSIC AND EOCENE OF WESTERN NORTH AMERICA
11:45  Tomiya, S.  CONCORDANCE AND DISCORDANCE OF DIVERSITY DYNAMICS ACROSS MAMMALIAN TROPHIC GROUPS IN THE MIDDLE EOCENE OF COASTAL SOUTHERN CALIFORNIA
12:00  Tschopp, E.  A SPECIMEN-BASED PHYLOGENETIC ANALYSIS OF DIPLODOCIDADAE (DINOSAURIA, SAUROPODA)

THURSDAY MORNING, OCTOBER 31, 2013
Technical Session VI
Westin Bonaventure Hotel & Suites, Sacramento Ballroom
MODERATORS: Nancy Simmons and Rachel Dunn

8:00  Lofgren, D., Williamson, T., Nydam, R.  NEW RECORDS OF EUTHERIAN AND METATHERIAN MAMMALS FROM THE GOLER FORMATION OF CALIFORNIA AND THEIR IMPLICATIONS FOR LATE PALEOCENE PROVINCIALITY
8:15  Simmons, N., Seiffert, E., Gunnell, G.  A NEW FAMILY OF LARGE OMNIVOROUS BATS FROM THE LATE EOCENE OF EGYPT
8:30  Gunnell, G., Smith, R., Smith, T.  NEW BATS (CHIROPTERA) FROM THE EARLIEST OLIGOCENE BUTERSEM-TGV LOCALITY IN BELGIUM DOCUMENT THE EARLIEST OCCURRENCE OF MYOTIS
8:45  Padian, K., Dial, K.  NEW MORPHOLOGICAL DATA ILLUMINATE HINDLIMB FUNCTION AND THE ECOLOGICAL CONTEXT OF FLIGHT IN THE EARLIEST BATS
9:00  Manz, C., Bloch, J.  SYSTEMATICS OF PALEOGENE LEPTACODON AND PLAGIOCTENODON (MAMMALIA, NYCTITHERIIDAE) WITH DESCRIPTION OF A NEW SPECIES FROM THE LATE PALEOCENE OF THE CLARKS FORK BASIN, WYOMING, USA
9:15  Hooker, J.  NEW POSTCRANIALS OF THE EXTINCT FAMILY NYCTITHERIIDAE FROM THE LATE EOCENE: IMPLICATIONS FOR LIFESTYLE AND AFFINITIES
9:30  Dunn, R., Rose, K., Kumar, K., Rana, R., Smith, T.  NEW PRIMATE POSTCRANIA FROM THE EARLY EOCENE OF VASTAN MINE, GUJARAT, INDIA
3:45  Bell, M., Upchurch, P., Mannion, P., Lloyd, G.  USING THE CHARACTER COMPLETENESS METRIC TO EXAMINE COMPLETENESS OF MESOZOIC DINOSAURS: A MAASTRICHTIAN HIGH AND A PALEOEQUATORIAL LOW
4:00  Benson, R., Choniere, J.  RATES OF DINOSAUR LIMB EVOLUTION PROVIDE EVIDENCE FOR EXCEPTIONAL RADIATION IN MESOZOIC BIRDS

THURSDAY AFTERNOON, OCTOBER 31, 2013
Technical Session VIII
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Christian Kammerer and Rui Castanhinha

1:45  Brocklehurst, N., Kammerer, C., Fröbisch, J.  THE INFLUENCE OF SAMPLING ON THE FOSSIL RECORD OF PALEOZOIC SYNAPSIDS, AND THE EFFECT OF OLSON’S EXTINCTION ON THEIR EVOLUTION
2:00  Castanhinha, R., Araújo, R., Costa Júnior, L., Angielczyk, K., Martins, G. G.  NEUROANATOMY AND OSSOUS LABYRINTH OF A NEW PERMIAN DICYNODONT FROM MOZAMBIQUE
2:15  Kammerer, C., Jansen, M., Fröbisch, J.  THERAPSID PHYLOGENY REVISITED
2:30  Day, M., Rubidge, B.  MIDDLE PERMIAN TETRAPOD BIODIVERSITY CHANGE AND THE GUADALUPIAN EXTINCTION: INSIGHTS FROM THE BEAUFORT GROUP OF SOUTH AFRICA
2:45  Krentzel, D., Flynn, J., Kammerer, C.  HIGH RESOLUTION X-RAY COMPUTED TOMOGRAPHY RECONSTRUCTION OF A NEW, WELL PRESERVED THEROCEPHALIAN SKULL, WITH INSIGHTS ON THEROCEPHALIAN PHYLOGENETICS AND CHARACTER EVOLUTION
3:00  Botha-Brink, J., Codron, D.  LIFE HISTORY AND REPRODUCTIVE STRATEGY OF THE PERMO-TRIASSIC DICYNODONT LYSTROSARUS
3:15  Owerkowicz, T., Crompton, A.  EFFECTIVE COUNTERCURRENT EXCHANGE AT THE RESPIRATORY TURBINATES REQUIRED A STIFF THORAX IN SYNAPSIDS
3:30  Crompton, A., Musinsky, C., Owerkowicz, T.  RECONSTRUCTION OF THE NASAL REGION IN NON-MAMMALIAN CYNODONTS AND MAMMALIAFORMES SUGGESTS ABSENCE OF INTRANARIAL LARYNX AND A COMPROMISED COUNTERCURRENT EXCHANGE AT RESPIRATORY TURBINATES
3:45  Ruf, I., Maier, W., Rodrigues, P., Schultz, C.  NASAL ANATOMY OF THE ADVANCED CYNODONT BRASILITHERIUM RIOGRANDENSIS REVEALS NEW ASPECTS OF MAMMALIAN EVOLUTION
4:00  Mancuso, A., Gaetano, L., Leardi, J., Abdala, F., Arcucci, A.  MIDDLE TRIASSIC CONTINENTAL FAUNAS FROM GONDWANA: THE CHANARES FORMATION TETRAPOD ASSEMBLAGE, A CASE STUDY FROM WESTERN ARGENTINA

THURSDAY AFTERNOON, OCTOBER 31, 2013
Poster Session II
Westin Bonaventure Hotel & Suites, Exhibit Hall
Authors must be present from 4:15 - 6:15 p.m.
Posters must be removed by 6:30 p.m.

1  Lehmann, S., Patterson, D., Matthews, T., Levin, N.  REGIONAL AND LANDSCAPE-SCALE PLEISTOCENE PALEOECOLOGY USING CARBON AND OXYGEN ISOTOPES FROM IN SITU MACRO- AND MICROMAMMAL TOOTH ENAMEL AT ELANDSFONTEIN, WESTERN CAPE, SOUTH AFRICA
2  Kharlamova, A., Saveliev, S., Boeskorov, G., Uschakov, V., Maschenko, E.  PRELIMINARY ANALYSES OF BRAIN GROSS MORPHOLOGY OF THE WOOLLY MAMMOTH, MAMMUTHUS PRIMIGENIUS, FROM YAKUTIA, RUSSIA
3  Ferraro, J., Binetti, K., Richmond, B., Manthi, F.  THE EARLY PLEISTOCENE MAMMALIAN FAUNA OF ‘MARSABIT ROAD’, CHALBI BASIN, NORTHERN KENYA
4  Chritz, K., Cerling, T.  ISOTOPIC INDICATORS OF MONSOON-INDUCED TERRESTRIAL ECOSYSTEM CHANGE IN THE TURKANA BASIN, KENYA: IMPLICATIONS FOR THE FOSSIL RECORD
5  George, C.  GIS ANALYSIS OF THE FAUNMAP II DATABASE TO RECOGNIZE GEOGRAPHIC BIAS IN THE IDENTIFICATION OF FOSSILS
6  Priego-Vargas, J., Bravo-Cuevas, V.  DIETARY BEHAVIOR AND HABITAT OF A MAMMAL ASSOCIATION FROM THE RANCHOLABREAN OF HIDALGO, CENTRAL MEXICO
7  Reynolds, R., Sample, L., Conkling, S.  THE EL CASCO SUBSTATION FAUNA AND FLORA: NEW RECORDS FROM THE PLIOCENE-PLEISTOCENE AGE SAN TIMOTEO FORMATION, RIVERSIDE COUNTY, CALIFORNIA
8  Palmqvist, P., Espigares, M., Pérez-Claros, J., Martin-Serra, A., Janis, C.  TAPHONOMY OF CARNIVOROUS AND HERBIVOROUS MAMMALS PRESERVED IN RANCHO LA BREA TAR PITS: SHIPS THAT PASS IN THE NIGHT?
Holden, A., Harris, J., Timm, R.  PALEOECOLOGICAL AND TAPHONOMIC IMPLICATIONS OF INSECT-DAMAGED VERTEBRATE REMAINS FROM RANCHO LA BREA, SOUTHERN CALIFORNIA

Stegner, M.  THE MESCAL CAVE FAUNA (SAN BERNARDINO COUNTY, CALIFORNIA): TESTING ASSUMPTIONS OF HABITAT FIDELITY IN THE QUATERNARY FOSSIL RECORD

Macias, M., Kitao, E., Gray, R.  NEW PLEISTOCENE MEGAFAUNA LOCALITIES IN SANTA BARBARA COUNTY, CALIFORNIA: PALEONTOLOGICAL RECONNAISSANCE OF THE MARINE TERRACE DEPOSITS AT VANDENBERG AIR FORCE BASE

Brandborg, D., Matthias, A., Graham, R.  EXCAVATION AND FOSSIL RECOVERY AT DON'S GOOSEBERRY PIT, BLACK HILLS, SD

Ellison, M., Flynn, J.  A NEW PHYLOGENETICALLY-INFORMED LIFE RECONSTRUCTION OF THE GIANT EOCENE CARNIVOROUS ARTIODACTYL ANDREWARCHUS MONGOLIENSIS (MAMMALIA, ARTIODACTYLAMORPHA, CETANCODONTOMORPHA)

Tsubamoto, T., Koda, Y., Hasegawa, Y., Nabana, S., Tomida, Y.  A PALEOGENE MAMMALIAN FAUNA FROM THE IWAKI FORMATION, JAPAN, AND IMPLICATIONS FOR AGE AND PALEOBIOGEOGRAPHY

Samuels, J., Mackenzie, K., Fremd, T.  THE FIRST RECORDS OF LEPTOCHOERIDS (ARTIODACTYLA) FROM THE JOHN DAY FORMATION OF OREGON

O'Brien, H.  THE EVOLUTIONARY HISTORY OF CRANIAL VASCULATURE IN BASAL RUMINANTS

Emery, M., Davis, E., Hopkins, S.  CHARACTER VARIATION IN MODERN CAMELS AND SHEEP HIGHLIGHTS PROBLEMS IN THE GENUS-LEVEL TAXONOMY OF AGROCHORID OREODONTS

Walters, K., Emery, M., Davis, E.  DECIDUOUS TEETH SHOW CLOSE RELATIONSHIPS BETWEEN OREODONT GENERA (ELICROTHUS, MERYCOCCHOERUS AND PROMERYCCHOERUS)

Mclaughlin, W., Davis, E.  SEXUAL DIMORPHISM IN THE POSTCRANIA OF EXTANT ARTIODACTYLA AND IMPLICATIONS FOR FALSELY ELEVATED DIVERSITY IN THE PALEOMERYCIDAE

Yamada, E., Hasumi, E., Miyazato, N., Nakaya, H., Watabe, M.  EXTANT HYPSODONT UNGULATES PROVIDE NEW INSIGHT ON MESOWEAR ANALYSIS FOR THE LATE MIOCENE UNGULATES FROM MARAGHEH, IRAN

Ludtke, J., Racicot, R.  EXAMINING THE CONGRUENCE BETWEEN DIFFERENT SOURCES OF PHYLOGENETIC DATA FROM ARTIODACTYLA

Rowan, J., Reed, K.  ENDEMISM AND DISPERAL IN EAST AFRICAN BOVIDAE FROM THE LATE MIOCENE THROUGH THE RECENT

Scott, J., O'Hara, M.  THE RELIABILITY OF MAXILLARY AND MANDIBULAR FIRST AND SECOND MOLARS FOR IDENTIFYING DIETARY CATEGORY IN EXTANT BOVIDS VIA DENTAL MICROWEAR TEXTURE ANALYSIS

Rössner, G., Ruf, I., Maier, W.  NEW INSIGHT IN THE EARLY EVOLUTION OF PECORA: CRANIAL ANATOMY OF AMPHIMOSCHUS (MAMMALIA, ARTIODACTYLA, RUMINANTI)

Heckeberg, N., Roessner, G., Asher, R.  THE POWER OF TOOTH MORPHOLOGY IN THE INTERPRETATION OF CERVID EVOLUTION (RUMINANTI, ARTIODACTYLA, MAMMALIA)

Nishioka, Y., Takai, M., Vidthayanan, C., Hanta, R., Jintasakul, P.  TAXONOMIC, MORPHOLOGICAL, AND PALEOENVIRONMENTAL REVISIONS ON FOSSIL BOVIDS (ARTIODACTYLA) FROM CONTINENTAL SOUTHEAST ASIA

Kloess, P., Farke, A.  TRACKS AND BODY FOSSILS PRESERVE DIFFERENT CAMELID POPULATIONS IN THE BARSTOW FORMATION (MIocene) OF SOUTHERN CALIFORNIA

Hensley-Marschand, B., Njau, J., Vermillion, W.  HIPPOPOTAMUS AT OLDUVAI GORGE INDICATES PERSISTENT WETLAND ENVIRONMENTS DURING A PERIOD OF INCREASING ARIDIFICATION IN EARLY HOMININ EVOLUTION

Boissiere, J.  CONTINENTAL DWARFISM OF AN EARLY PLEISTOCENE HIPPOPOTAMID FROM THE SHUNGURA FORMATION, LOWER OMO VALLEY, ETHIOPIA

Lewis, P., Horstman, E., Johnson, E., Buchanan, B.  EARLY HOLOCENE BISON ANTIQUUS SIZE CLINE ON THE SOUTHERN PLAINS

Bormet, A.  BISON DO NOT MARCH IN UNISON: A GEOMETRIC MORPHOMETRIC APPROACH TO DIFFERENTIATING NORTH AMERICAN BISON SPECIES BASED ON HOOF SHAPE MORPHOLOGY

Schubert, A., Ruf, I.  INNER EAR MORPHOMETRY OF MYOTRAGUS BALEARICUS (BOVIDAE, CETARIDACTYLA) SUPPORTS DECREASE IN LOCOMOTOR AGILITY

Ramdarshan, A., Beard, K.  NICHE PARTITIONING AMONG PLESIADAPIFORMES: AN EXAMPLE FROM THE LATE PALEOCENE OF SOUTHWESTERN WYOMING

Birlebach, D., Marcot, J.  TESTING MECHANISMS OF BODY SIZE TRENDS IN NORTH AMERICAN PLESIADAPIFORMES (MAMMALIA, PRIMATES)
López-Torres, S., Silcox, M. PHYLOGENETIC RELATIONSHIPS OF THE EUROPEAN PAROMOMYIDAE (PRIMATES, MAMMALIA) AND THEIR BIOGEOGRAPHIC IMPLICATIONS

Chester, S., Sargis, E., Bloch, J., Boyer, D. NEARLY COMPLETE SKELETON OF THE EARLY EOCENE TINIMOMYS GRAYBULLIENSIS (PRIMATES, MICROMOMYIDAE)

Maiolino, S., Boyer, D. DISTAL PHALANGEAL EVOLUTION IN EARLY EUPRIMATES WITHDRAWN

Harrington, A., Silcox, M., Bloch, J. FIRST VIRTUAL ENDOCAST OF AN EOCENE NORTH AMERICAN ADAPIFORM PRIMATE

Allen, K. ENDOCAST SHAPE EVOLUTION IN PRIMATES

Prufrock, K., Silcox, M. PHALANGERIFORM MODELS FOR THE ESTIMATION OF BODY MASS IN STEM PRIMATES

Yapuncich, G., Gladman, J., Boyer, D. ESTIMATING BODY MASS OF FOSSIL PRIMATES: A COMPARISON OF DENTAL AND TARSAL VARIABLES

Perry, J., Macneill, K., Heckler, A., Hartstone-Rose, A. RECONSTRUCTIONS OF THE CHEWING MUSCLES IN EUROPEAN ADAPIFORMS AND SUBFOSSIL LEMURS

Samonds, K., Godfrey, L., Crowley, B., Sutherland, M. THE CHRONOLOGY OF LEMUR EXTINCTION IN NEAR AND DEEP TIME

St. Clair, E., Babitt, C., Wray, G., Wall, C. ENAMEL THICKNESS MEASUREMENTS AND RECONSTRUCTION OF ANCESTRAL MORPHOTYPES IN PRIMATES

Atwater, A., Holroyd, P., Davis, E. NEW EVIDENCE THAT OMOMYID DIET, NOT BODY SIZE, WAS AFFECTED BY GLOBAL CLIMATE CHANGE

Minwer-Barakat, R., Marigo, J., Batola, A., Moya-Sola, S. THE WESTERNMOST RECORD OF THE GENUS MICROCHEROUS (OMOMYIDAE, PRIMATES) IN THE IBERIAN PENINSULA AND ITS PALAEOBIOGEOGRAPHIC IMPLICATIONS

Albright, L., Samuels, J., Fremd, T. THE LAST FOSSIL PRIMATE IN NORTH AMERICA: NEW MATERIAL OF THE ENIGMATIC EKGMOVECHASHALA FROM THE ARKAREEAN OF OREGON

Patel, B., Desilva, J., Steininger, C. NEW CERCOPITHECOID PRIMATE POSTCRANIAL FOSSILS FROM COOPER'S D, SOUTH AFRICA

Moya-Solà, S., Alba, D., Almécija, S. A PROXIMAL RADIUS OF BARBERAPITHECUS HUERZELERI (PRIMATES, PLIOPITHECIDAE) FROM THE MIocene SITE OF CASTELL DE BARBERÀ (NE IBERIAN PENINSULA)

Alba, D., Delson, E., Colombero, S., Delfino, M., Pavia, M. OLDEST JOINT RECORD OF MACACA AND MESOPITHECUS (PRIMATES, CERCOPITHECIDAE) BASED ON MATERIAL FROM THE LATEST MIocene OF MONCUCCO TORINESE (ITALY)

Smith, H. EVOLUTION AND GENETIC DISTANCES OF NEANDERTAL AND ANATOMICALLY MODERN HUMAN (AMH) FOSSILS AS INDICATED BY BASICRANIAL MORPHOLOGY.

Heck, C., Wilson, H., Varricchio, D., Jackson, F., Jin, X. EVALUATING DEFORMATION IN SPHEROOLITHUS DINOSAUR EGGS FROM ZHEJIANG, CHINA

Oser, S. NEW FOSSIL EGGS, EGGSHELL, AND PERINATAL OSTEOLOGICAL REMAINS FROM THE EGG MOUNTAIN LOCALITY, UPPER CRETACEOUS TWO MEDICINE FORMATION, MONTANA, USA

Watabe, M., Fastovsky, D., Tsogtbaatar, K., Chinzorig, T. DINOSAUR EGGSHEEL OOFALNA FROM THE NEMEGT AND BARUNGOYOT FORMATIONS IN THE GOBI DESERT, MONGOLIA - TAXONOMY AND TAPHONOMY

Mcdonald, A., Wolfe, D., Hedrick, B., Cordero, S., Laing, A. NEW DISCOVERIES OF DINOSAURS AND OTHER VERTEBRATES FROM THE UPPER CRETACEOUS (CAMPANIAN) MENEEFEE FORMATION OF NEW MEXICO

Stubbs, A., Boyd, C., Ksepka, D. QUANTIFYING HISTORICAL PATTERNS IN THE STRATIGRAPHIC COMPLETENESS OF THE DINOSAUR FOSSIL RECORD

Lockley, M., Houck, K., Lim, J., Kim, K. A NEW DINOSAUR FREEWAY IN THE CRETACEOUS OF WESTERN COLORADO: TOWARDS A WORLD CLASS TETRAPOD TRACK SAMPLE AND DATABASE FOR THE CRETACEOUS DAKOTA GROUP

Platt, B., Shell, R., Suarez, C., Boss, S., Williamson, M. THE FIRST THEROPOD TRACKWAYS FROM THE LOWER CRETACEOUS (ALBIAN) DE QUEEN FORMATION, SOUTHWEST ARKANSAS

Corresponding board numbers in left hand column
Suarez, C., Boss, S., Platt, B., Shell, R., Williamson, M.  PRESERVATION OF LARGE THEROPOD AND SAUROPOD TRACKWAYS FROM THE LOWER CRETACEOUS DEQUEEN FORMATION, ARKANSAS USING LIDAR: CREATING A VIRTUAL TRACKWAY LAB FOR USE IN TEACHING INTRODUCTORY AND UPPER DIVISION LABORATORIES

Viephaus, H., Nguyen Tuan, L., Lins, Y., Marty, D., Schanz, T.  ANALYSIS OF DESICCATION CRACK PATTERN FOR QUANTITATIVE INTERPRETATION OF DINOSAUR TRACKS

Stoller, H., Rowland, S.  TRACKS OF DINOSAURS, SYNAPSID S, AND ARTHROPODS IN THE AZTEC SANDSTONE OF SOUTHERN SOUTHERN: A FINAL REPORT

Gorscak, E., O'Connor, P.  INTEGRATING TEMPORAL DATA WITHIN A PHYLOGENETIC ANALYSIS: A BAYESIAN APPROACH FOR CHARACTERIZING DIVERGENCE ESTIMATES IN AN EXTINCT CLADE

Fairman, J., Nabavizadeh, A., Weishampel, D.  EARLY SAUROPODOMORPH JAW APPARATUS ANATOMY: A COMPARATIVE STUDY WITH IGUANIAN LIZARDS

Moacdieh, E.  VARIATION IN SAUROPOD (DINOSAURIA: SAUROPODA) CERVICAL CENTRUM LENGTH

D'Emic, M., Sereno, P.  BONE HISTOLOGY OF SAUROPOD DINOSAURS FROM NIGER

Fronimos, J., Wilson, J.  FUNCTION AND POLARITY OF CONCAVO-CONVEX ARTICULATIONS IN THE VERTEBRAL CENTRA OF SAUROPOD DINOSAURS WITH IMPLICATIONS FOR OTHER VERTEBRATES

Machado, E., Avilla, L., Nava, W., Campos, D., Kellner, A.  A NEW TITANOSAUR (DINOSAURIA, SAUROPODA) FROM THE LATE CRETACEOUS BAURU BASIN, BRAZIL

Knoll, F., Witmer, L., Ridgely, R., Ortega, F., Sanz, J.  A NEW TITANOSAURIAN SAUROPOD NEUROCRANIUM FROM THE LATE CRETACEOUS OF SPAIN

Riff, D., Costa, A., Machado, E.  NEW INFORMATION ON TITANOSAURIAN TRACKS FROM THE MARILIA FORMATION (MAASTRICHTIAN, BAURU BASIN) OF CAMPINA VERDE, MINAS GERAIS STATE, BRAZIL

Poropat, S., Hocknull, S., Keir, B., Elliott, D.  PALEOBIOGEOGRAPHIC IMPLICATIONS OF AUSTRALIA'S CRETACEOUS SAUROPODS

Diez Díaz, V., Ortega, F., Sanz, J.  MICROWEAR PATTERNS OF THE TITANOSAURIAN TEETH FROM THE LATE CRETACEOUS OF “LO HUECO” (CUENCA, SPAIN)

Yoshida, J., Carpenter, K., Kobayashi, Y.  NEW SAUROPOD FROM THE CEDAR MOUNTAIN FORMATION OF UTAH, USA

Wings, O., Berensmeier, M.  UNIQUE TAPHONOMY OF THE DWARFED SAUROPOD EUROPASAURUS FROM LATE JURASSIC MARINE STRATA OF THE LANGENBERG QUARRY (LOWER SAXONY, NORTHERN GERMANY)

Whitlock, J., D'Emic, M., Smith, K.  COMPLEX TOOTH HISTOLOGY IN A SAUROPOD DINOSAUR

Foster, J.  A SMALL SAUROPOD DINOSAUR (HAPLOCANTHOSAURUS?) FROM THE LOWER MORRISON FORMATION (UPPER JURASSIC) OF CENTRAL COLORADO

Schmitt, A., Tschopp, E., Knoll, F., Sander, M.  PALEONEUROANATOMY AND BRAINCASE MORPHOLOGY INDICATES THE PRESENCE OF AT LEAST TWO DIPLODOCINE TAXA (DINOSAURIA: SAUROPODA) AT HOWE RANCH (WYOMING, USA)

Mocho, P., Raya-Torres, R., Ortega, F., Silva, B.  MACRONARIAN RECORD FROM THE UPPER JURASSIC OF PORTUGAL

Mateus, O., Tschopp, E.  CATHETOSAURUS AS A VALID SAUROPOD GENUS AND COMPARISONS WITH CAMARASAURUS

Krupandan, E., Otero, A., Chinsamy-Turan, A.  PRELIMINARY PHYLOGENETIC AND HISTOLOGICAL ANALYSIS OF A LATE TRIASSIC SAUROPODOMORPH FROM THE LOWER ELLIOT FORMATION OF LESOTHO

Apaldetti, C., Pol, D., Martinez, R.  EVOLUTIONARY PATTERNS AND MORPHOLOGICAL DISPARITY OF SAUROPODOMORPHS OVER THE TRIASSIC-JURASSIC BOUNDARY


Iijima, M., Kobayashi, Y.  CONVERGENCES AND TRENDS IN THE EVOLUTION OF THE ARCHOSAUR PELVIS


Corresponding board numbers in left hand column
Heckert, A., Schneider, V., Fraser, N., Webb, R.  THE AETOSAUR (ARCHOSAURIA: SUCHIA) FAUNA OF THE UPPER TRIASSIC PEKIN FORMATION (NEWARK SUPergroup), DEEP RIVER BASIN, NORTH CAROLINA, USA, AND ITS IMPLICATIONS FOR THE PHYLOGENY AND BIOSTRATIGRAPHY OF AETOSAURS


Sookias, R., Sennikov, A., Butler, R.  REDescription and phylogenetic assessment of the basal archosauriform DOROSUCHUS NEOETUS from the middle triassic of Russia

Tennant, J.  COMparative ecomorphology of ornithopod and ruminant snouts - a geometric morphometric approach

Button, D.  Biomechanical evidence for niche partitioning between sympatric sauropod dinosaurs

Vitek, N.  new patterns of spatiotemporal variation in the eastern box turtle (Terrapene carolina) and their influence on evolutionary hypotheses

Tanaka, K.  Eggshell porosity reveals nest types and incubation behavior in archosaurs

Vietti, L.  Insights into the microbial degradation of bone in marine environments: genetic sequencing of biofilms from lab-simulated whale-falls

Miller-Camp, J.  When specialists become generalists: LongirostrY in alligator

Winkler, D.  Enamel ridge alignment in ungulates: a cut above

Vil, H.  Inner-ear morphology suggests burrowing behaviour in early snakes

Kawabe, S.  Enigmatic affinity in brain morphology between pteropterids and penguins with comprehensive comparison among water birds

Metello, T.  Diogenornis fragilis, the oldest ratite: claws, locomotor behavior and taxonomic implications

Jones, M.  Recognizing bat tracks and trackways in the fossil record: proposed morphological criteria based on trackways of the neotropical fruit bat Carolia Perspicillata

Hattori, S.  Evolution of the pedal function in non-avian theropods

Atterholt, J.  Dissecting dinosaurs: the use of research specimens in high school biology classrooms to engage students as citizen scientists and promote scientific literacy

Marrs, B., Scott, E.  The evo-eco-bio curriculum: helping secondary school students discover, experience, and connect to their life history, to their biosphere, and to processes in nature

Early, C., Hall, M.  Teen science cafés: a novel way to engage future scientists

Cussen, L., Mychajliw, A., Hadly, E.  Conserving and understanding a mammalian "living fossil" Solenodon paradoxus, through paleontological outreach in the dominican republic

Wilkins, W., Pagnac, D., Ellingsen, M.  Chewing the fat with arctodus: Collaborative undergraduate development of a calibrate apparatus for use in bite force research

Daniel, J.  PaleoaeRie: multiple avenues bringing evolution education to formal and informal educators and the public at the same time

Toth, N., Seppi, J.  "What rock is that?" (and other common 4th grade questions)- a free professional development opportunity for teachers with nhmu

Chiappe, L., Bell, A., Kisiel, J.  Proyecto Dinosaurios - a mentor-centered approach to engaging under-represented students in paleontological research

Gallagher, W., Browne, K.  Redesigning the dinosaurs course: an inquiry-based approach to teaching paleontology

Desantis, L., Lashinsky, N., Romer, J., Greshko, M., Loffredo, L.  University students' acceptance of climate change and evolution: Are skeptics just anti-science?

Desantis, D., Desantis, L.  immersion of evolutionary concepts across science curricula

Gensler, P., Morgan, G., Moore, J., Aby, S., Foss, S.  Using partnerships and volunteers to manage Miocene-aged (Hemingfordian-Barstovian nalma) paleontological resources on bLM lands in the espanola basin of new mexico

Shinya, A.  Use of silicone caulk as a separator for field jackets

Schubert, B., Cox, S., Coltrain, J.  The significance of rancho la brea for interpreting the paleobiology of giant short-faced bears

Corresponding board numbers in left hand column
Fuller, B., Fahrni, S., Harris, J., Farrell, A., Southon, J.  
**RADIOCARBON DATING AND ISOTOPIC ANALYSIS OF PLEISTOCENE FAUNA FROM PROJECT 23 AT RANCHO LA BREA: A NOVEL METHOD FOR TAR REMOVAL FROM BONE COLLAGEN BY ULTRAFILTRATION**

Brown, K., Scott, E., Akersten, W.  
**EQUUS OCCIDENTALIS LEIDY FROM ASPHALTO, KERN COUNTY, CALIFORNIA**

**BROKEN AND HEALED BACULA OF LA BREA: A WHOLE NEW DEFINITION OF TOUGH TIMES!**

Sholts, S., Wärmländer, S., Carlson, J., Hlusko, L.  
**DENTAL HISTOLOGY OF DIRE WOLF FOSSILS FROM TAR SEEP DEPOSITS: TAPHONOMIC CONSIDERATIONS FOR LIFE HISTORY STUDIES**

Akersten, W., Jefferson, G.  
**THE ASPHALTO/MCKITTRICK COMPLEX: QUATERNARY FOSSILS ASSOCIATED WITH ASPHALT DEPOSITS FROM THE SOUTHWESTERN MARGIN OF THE SAN JOAQUIN VALLEY, 23 KM NORTH EAST OF TAFT, KERN COUNTY, CALIFORNIA**

Cadenillas, R., Martinez, J., Czaplewski, N.  
**ADDITIONAL BATS FROM THE LATE PLEISTOCENE OF THE TALARA TAR SEEPS (NORTHWESTERN PERU) - PALEOENVIRONMENTAL IMPLICATIONS**

Solorzano, A., Rincon, A., Mcdonald, H.  
**A NEW MAMMAL ASSEMBLAGE FROM THE LATE PLEISTOCENE EL BREAL DE OROCUAL, NORTHEAST OF VENEZUELA**

Zapata, J., Martinez, J., Rincon, A.  
**SIGMODONTINE RODENTS FROM THE LATE PLEISTOCENE OF THE TALARA TAR SEEPS (NORTHWESTERN PERU) - SYSTEMATICS, PALEOENVIRONMENTAL INFERENCESS, AND PRELIMINARY TAPHONOMIC STUDY**

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**FRIDAY MORNING, NOVEMBER 1, 2013**

**Technical Session IX**

**Westin Bonaventure Hotel & Suites, San Francisco Ballroom**

**MODERATORS: Joseph Sertich and Ashley Morhardt**

8:00  
**Brink, K., Leblanc, A., Evans, D., Reisz, R.**  
**PREVALENCE, ORIGIN, AND ANATOMY OF DENTICLE AMPULLAE IN THEROPOD DINOSAUR TEETH**

8:15  
**Gates, T., Zanno, L.**  
**OSSIFIED CRANIAL ORNAMENTATION CORRELATES WITH MID- TO LARGE-BODY MASS IN THEROPOD DINOSAURS**

8:30  
**You, H., Azuma, Y., Wang, T., Dong, Z.**  
**A NEW COELOPHYSIS THEROPOD DINOSAUR FROM THE EARLY JURASSIC LUFENG FORMATION OF YUNNAN PROVINCE, CHINA**

8:45  
**Sertich, J., O’Connor, P., Seiffert, E., Manthi, F.**  
**A GIANT ABELISAURID THEROPOD FROM THE LATEST CRETACEOUS OF NORTHERN TURKANA, KENYA**

9:00  
**Burch, S.**  
**THE MYOLOGICAL CONSEQUENCES OF EXTREME LIMB REDUCTION: NEW INSIGHTS FROM THE FORELIMB MUSCULATURE OF ABELISAURID THEROPODS**

9:15  
**Miyashita, T., Currie, P., Paulina-Carabajal, A.**  
**A NEW SPECIES OF DASPLETOSAURUS (THEROPODA: TYRANNOSAURIDAE) FROM THE CAMPAIGN OF SOUTHERN ALBERTA REPRESENTED BY A GROWTH SERIES OF WELL-PRESERVED SKULLS AND SKELETONS**

9:30  
**Lee, Y., Barsbold, R., Currie, P., Kobayashi, Y., Lee, H.**  
**NEW SPECIMENS OF DEINOCEPHILUS MIRIFICUS FROM THE LATE CRETACEOUS OF MONGOLIA**

9:45  
**Balanoff, A., Bever, G., Norell, M.**  
**THE RELATIONSHIPS OF Oviraptorosaur Dinosaurs and Endocranial Evolution Along a Morphologically Bizarre Lineage**

10:00  
**BREAK**

10:15  
**Kobayashi, Y., Lee, Y., Barsbold, R., Zelenitsky, D., Tanaka, K.**  
**FIRST RECORD OF A DINOSAUR NESTING COLONY FROM MONGOLIA REVEALS NESTING BEHAVIOR OF THERIZINOSAURIDS**

10:30  
**Morhardt, A., Ridgely, R., Varricchio, D., Witmer, L.**  
**NEW STUDIES OF BRAINCASE ANATOMY, BRAIN SIZE, AND BRAIN STRUCTURE IN THE LATE CRETACEOUS THEROPOD TROODON FORMOSUS (DINOSAURIA: SAURISCHIA) BASED ON CT SCANNING AND 3D VISUALIZATION**

10:45  
**Persons, W., Xing, L., Bell, P., Currie, P., Miyashita, T.**  
**NEW DIRECT AND MORPHOLOGICALLY-INFERRED EVIDENCE OF PISCIVORY IN MICRORAPTOR**

11:00  
**Smith, R., Mancuso, A., Pol, D., Marsicano, C.**  
**TAPHONOMY OF A DINOSAUR BREEDING COLONY IN SOUTHERN PATAGONIA**

11:15  
**Mannion, P., Schwarz-Wings, D., Upchurch, P., Wings, O., Rauhut, O.**  
**TAXONOMIC AFFINITIES AND BIOGEOGRAPHIC IMPLICATIONS OF THE PUTATIVE TITANOSAURS (DINOSAURIA: SAUROPODA) FROM THE LATE JURASSIC TENDAGURU FORMATION OF TANZANIA**

11:30  
**Li, L., You, H., Li, D., Dodson, P.**  
**A NEW, EARLY CRETACEOUS TITANOSAURIIFORM SAUPOD DINOSAUR WITH UNIQUE OSTEOLOGY FROM THE HEKOU GROUP OF LANZHOUBASIN, GANSU PROVINCE, CHINA**

11:45  
**Wilson, J., Allain, R.**  
**OSTEOLOGY OF REBBACHISAAURUS GARASBAE, A DIPLODOCOID (DINOSAURIA: SAUROPODA) FROM THE EARLY LATE CRETACEOUS KEM KEM BEDS OF SOUTHEASTERN MOROCCO**

12:00  
**Ullmann, P., Bonnann, M., Lacovara, K.**  
**MORPHOMETRIC EXPLORATION OF THE EVOLUTION OF WIDE GAUGE FEATURES IN THE STYLOPODIAL LIMB ELEMENTS OF TITANOSAURIIFORM SAUPODIDS**
Symposium 3: The Tempo of Vertebrate Evolution: Geochronologic Advances in Dating the Fossil Record
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Randall Irmis and Eric Roberts

8:00  Bowring, S., Blackburn, T., Burgess, S., Ramezani, J.  EARTHTIME: HIGH PRECISION GEOCHRONOLOGY AND THE CALIBRATION OF EARTH HISTORY
8:15  Rasbury, T., Cole, J., Parrish, R., Bowring, S., Lanzionetti, A.  U-Pb DATING OF CARBONATES FROM TERRESTRIAL VERTEBRATE FAUNA-BEARING UNITS
8:30  Mundil, R., Irmis, R.  THE INS AND OUTS OF HIGH-RESOLUTION GEOCHRONOLOGY APPLIED TO STRATIGRAPHIC PROBLEMS
8:45  Hemming, S., Fire Clay Group, Earthtime  40Ar/39Ar SANIDINE AND U-Pb ZIRCON TESTS FOR A CARBONIFEROUS-AGE NATURAL GEOCHRONOLOGY STANDARD
9:00  Rubidge, B., Erwin, D., Ramezani, J., Bowring, S., Day, M.  U/PB RADIOMETRIC DATES FROM THE KAROO SUPERGROUP (SOUTH AFRICA) ENABLE CORRELATION OF PERMIAN CONTINENTAL SEDIMENTARY SUCCESIONS AND CONSTRAIN MID-LATE PERMIAN TETRAPOD BIODIVERSITY CHANGES
9:15  Kent, D., Olsen, P., Muttoni, G.  INTEGRATION OF MAGNETIC POLARITY STRATIGRAPHY AND ORBITAL CYCLOSTRATIGRAPHY TOWARDS A LATE TRIASSIC CHRONOLOGY
9:30  Irmis, R., Mundil, R., Marsicano, C., Mancuso, A.  U-Pb DATING OF REDEPOSITED VOLCANICS IN NON-MARINE SEDIMENTARY STRATA: CASE STUDIES FROM THE EARLY MESOZOIC
9:45  Trujillo, K., Chamberlain, K.  THE MORRISON FORMATION U/PB DATING PROJECT: USING HIGH-PRECISION, CHEMICAL ABRASION (CA-TIMS), SINGLE ZIRCON, ASHFALL DATES FOR CHRONOSTRATIGRAPHIC CORRELATIONS
10:00 BREAK
10:15  Britt, B., Greenhalgh, B., Mori, H., Mackay Sorensen, A., Scheetz, R.  PRELIMINARY SEQUENCE STRATIGRAPHY OF THE CEDAR MOUNTAIN FORMATION OF UTAH WITH U-Pb LA-ICP-MS DETRITAL ZIRCON AGES FOR EACH SEQUENCE
10:30  Tucker, R., Roberts, E., Salisbury, S.  ADVANCES IN DATING THE LATE CRETACEOUS VERTEBRATE RECORD OF NORTHEASTERN AUSTRALIA USING U-Pb LA-ICMPS DETRITAL ZIRCON GEOCHRONOLOGY
10:45  Eberth, D., Roberts, E., Deino, A., Bowring, S., Ramezani, J.  TWENTY-THREE YEARS OF RADIOMETRIC DATING AT DINOSAUR STRAIGHT PARK (UPPER CRETACEOUS, ALBERTA, CANADA)
11:00  Roberts, E., O’Connor, P., Stevens, N.  A SYSTEMATIC APPROACH TO DATING MESOZOIC-PALEogene CONTINENTAL VERTEBRATE ASSEMBLAGES IN AFRICA
11:15  Renne, P., Sprain, C., Wilson, G., Clemens, W.  40Ar/39Ar GEOCHRONOLOGY OF THE LANCIA-TORREJONIAN INTERVAL, HILL CREEK REGION, MONTANA
11:30  Clyde, W., Barnum, T., Krause, J., Ibañez-Mejia, M.  NEW MAGNETOSTRATIGRAPHIC AND RADIOISOTOPE RESULTS FROM THE RIO CHICO GROUP IN THE LAS FLORES AREA OF THE SAN JORGE BASIN (PATAGONIA, ARGENTINA); IMPLICATIONS FOR THE TEMPORAL CALIBRATION OF PALEogene SOUTH AMERICAN LAND MAMMAL AGES
11:45  Riedel, J., Clyde, W., Stucky, R., Raynolds, B.  MAGNETOSTRATIGRAPHY ACROSS THE WASATCHIAN/BRIDGERIAN NORTH AMERICAN LAND MAMMAL AGE BOUNDARY IN THE WIND RIVER BASIN, WYOMING
12:00  Tsukui, K., Flynn, J., Ramezani, J., Machlus, M., Bowring, S.  TEMPORAL CALIBRATION OF THE BRIDGERIAN NORTH AMERICAN LAND MAMMAL AGE (NALMA): MAGNETOSTRATIGRAPHY AND HIGH PRECISION U-Pb ZIRCON GEOCHRONOLOGY OF THE MIDDLE EOCENE BRIDGER FORMATION, WYOMING

Technical Session X
Westin Bonaventure Hotel & Suites, Sacramento Ballroom
MODERATORS: Kaitlin Clare Maguire and David Patterson

8:00  Fisher, D., El Adli, J., Calamari, Z.  3D OSTEOLOGY OF THE AMERICAN MASTODON
8:15  Cherney, M., Calamari, Z., Fisher, D.  NO OBSERVED EFFECTS OF CLIMATE CHANGE ON SNOWMASS MASTODON TUSK GROWTH
8:30  Yann, L., Desantis, L., Koch, P., Lundelius, E.  THE INFLUENCE OF FEEDING ECOLOGY ON THE DISTRIBUTION OF NORTH AMERICAN PLEISTOCENE CAMELIDS
8:45  Secord, R., Lilienthal, N.  SHIFTING ENVIRONMENTS AND CONTROLS ON BODY SIZE IN PLEISTOCENE HORSES FROM THE GREAT PLAINS
9:00  Terry, R., Koch, P.  DYNAMICS OF HOLOCENE ABUNDANCE AND RESOURCE USE IN DESERT MICE
9:15  Maguire, K.  TESTING FOR ECOLOGICAL NICHE STABILITY OF MAMMALIAN SPECIES FROM THE LAST GLACIAL MAXIMUM TO PRESENT

FRIDAY MORNING, NOVEMBER 1, 2013
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Westin Bonaventure Hotel & Suites, Sacramento Ballroom
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8:00  Fisher, D., El Adli, J., Calamari, Z.  3D OSTEOLOGY OF THE AMERICAN MASTODON
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9:30 Cerling, T., Harris, J., Leakey, M., Levin, N., Manthi, F.  ECOLOGICAL CHANGES IN THE TURKANA BASIN OVER 4 MA
9:45 Patterson, D., Faith, T., Bobe, R., Wood, B.  A COMPARISON OF THE FOSSIL EVIDENCE OF THREE MAMMALIAN FAMILIES FROM EAST AND SOUTHERN AFRICA OVER THE PAST 3 MILLION YEARS: THE EFFECTS OF SAMPLING BIAS
10:00 BREAK
10:15 Souron, A., Bibi, F., Bocherens, H., Uno, K., Boisserie, J.  DECOUPLING BETWEEN MORPHOLOGY AND STABLE CARBON ISOTOPES IN PLIO-PLEISTOCENE HERBIVEROUS MAMMALS FROM THE SHUNGURA FORMATION (LOWER OMO VALLEY, ETHIOPIA)
10:30 Garrett, N., Fox, D., Tryon, C., Faith, J., Peppe, D.  STABLE ISOTOPIC PALEOENVIRONMENTAL RECONSTRUCTION OF THE LATE PLEISTOCENE SITES ON RUSINGA AND MFANGANO ISLANDS, LAKE VICTORIA, KENYA
11:00 Begun, D.  OLDEST DIRECT EVIDENCE OF DENTAL DEVELOPMENTAL DELAY AND ENCEPHALIZATION IN A LATE MIocene Hominine.
11:15 Eastham, L., Feranec, R., Begun, D., Kordos, L.  STABLE ISOTOPE AND TRACE ELEMENT PALEOECOLOGY OF THE RUDABANYA FAUNA DURING THE LATE MIocene
11:30 Madern, A., Casanovas Vilar, I., Alba, D., Demiguel, D., Van Den Hoek Ostende, L.  THE ABRupt COLLAPSE OF A DIVERSITY HOTSPOT? RECONSIDERING VALLESIAN (LATE MIocene) DIVERSITY IN ITS TYPE AREA
11:45 Smiley, T., Badgley, C., Finarelli, J.  MIocene MAMMAL DIVERSITY IN RELATION TO TECTONIC AND CLIMATIC HISTORY OF THE BASIN AND RANGE PROVINCE
12:00 Wang, X., Tseng, Z., Slater, G., Takeuchi, G., Li, Q.  Mio-pliocene carnivorans from western tibet and the earliest record of pantherine felids

FRIDAY AFTERNOON, NOVEMBER 1, 2013
Technical Session XI
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
MODERATORS: Patricia Holroyd and Catherine Badgley
1:45 Foreman, B., Hajek, E., Straub, K.  PROCESSED-BASED ESTIMATES OF STRATIGRAPHIC COMPLETENESS: IMPLICATIONS FOR THE ALLUVIAL VERTEBRATE FOSSIL RECORD
2:00 Holroyd, P., Rankin, B., Ferrer, E.  THE MYSTERY OF THE MISSING MARSUPIALS AND THE PROBLEM OF DETECTION BIAS
2:15 Fraser, D., Hassall, C., Gorelick, R., Rybczynski, N.  GLOBAL CLIMATE DRIVES TEMPORAL PATTERNS OF NORTH AMERICAN MAMMAL BETA DIVERSITY
2:45 Morse, P., Wood, A., Bloch, J.  CHANGES IN DENTAL DEVELOPMENT IN TWO HERBIVOROUS MAMMAL TAXA FOLLOWING THE PALEOCEANE-EOcene THERMAL MAXIMUM IN THE BIGHORN BASIN, WYOMING
3:00 D'Ambrosia, A., Clyde, W., Fricke, H., Snell, K., Gingerich, P.  MAMMALIAN DwarFISM ASSOCIATED WITH THE EARLY EOCENE ETM2 HYPERTHERMAL EVENT, BIGHORN BASIN, WYOMING
3:15 Slater, G.  TEMPO OR MODE IN EVOLUTION? THE CASE OF MAMMALIAN BODY SIZE EVOLUTION
3:30 Davis, E., Emery, M., Famoso, N., Mcguire, J.  WHEN WAS THE MODERN LATITUDINAL RICHNESS GRADIENT ESTABLISHED?
3:45 Lashinsky, N., Desantis, L., Yann, L., Donohue, S., Haupt, R.  IS RApoport'S RULE A RECENT PHENOMENON? A DEEP TIME PERSPECTIVE ON POTENTIAL CAUSAL MECHANISMS
4:00 Badgley, C., Domingo, S., Barry, J., Flynn, L., Morgan, M.  THREE BIOGEOGRAPHIC MODES OF CHANGE IN MIocene MAMMAL DIVERSITY FROM THE SIWALKI SEQUENCE OF THE INDIAN SUBCONTINENT

FRIDAY AFTERNOON, NOVEMBER 1, 2013
Technical Session XII
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Brandon Peecook and Eric Wilberg

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2:15 Peecook, B., Huttenlocker, A. K., Sidor, C. Bone histology in new, early silesaurids (Dinosauriformes) from Zambia: implications for the origin of dinosaurian growth patterns
2:30 Wilberg, E. A redescription of Peipehsuchus teleorhinus (Crocodylomorpha: Thalattosuchia) and its implications for the origin of teleosauridae and the evolution of marine adaptations in thalattosuchia
2:45 Montefeltro, F., Larsson, H., Langer, M. An advanced neosuchian from the Jurassic of Brazil
3:00 Brochu, C., Langston, W., Rowe, T. A new, phylogenetically significant alligatoroid from the Late Cretaceous (Campanian) of Mexico
3:15 Gignac, P., Kley, N. Inferences on the feeding biomechanics of the bizarre pug-nosed crocodyliform Simosuchus clarki
3:30 Moreno-Bernal, J., Head, J., Jaramillo, C. Fossil crocodylians from the Miocene-Pliocene of the High Guajira Peninsula, Colombia
3:45 Nestler, J., Aiello-Lammens, M. Modeling the historical range of Alligator and its implications for crocodylians as paleoclimate proxies
4:00 Sarrazin, J., Schachner, E., Farmer, C. Exploration of airflow patterns in the lung of Alligator mississippiensis (Archosauria: Crocodylia) using CFD modeling, and implications for the evolution of unidirectional airflow in Archosauria

FRIDAY AFTERNOON, NOVEMBER 1, 2013
Technical Session XIII
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Vincent Dupret and Lauren Sallan

1:45 Choo, B., Zhu, M., Qu, Q., Yu, X. A new osteichthyan from the Late Silurian of Yunnan, China and the oldest gnathostome-dominated vertebrate fauna
2:00 Ahlberg, P., Blom, H., Zhu, M., Mars, T., Sanchez, S. Osteology and morphology of the probable stem-group osteichthyan Lophosteus superbus Pander, from the Silurian of Estonia
2:15 Chen, D., Ahlberg, P., Blom, H., Sanchez, S. Dental development of the stem osteichthyan Andreolepis heidei revealed by three-dimensional synchrotron virtual palaeohistology
2:30 Dupret, V., Sanchez, S., Goujet, D., Tafforeau, P., Ahlberg, P. The origin of the jawed vertebrate face: new insights from a Synchrotron scanned skull of the primitive placoderm Romundina
2:45 Behrard, I., Arsenault, F., Cloutier, R., Kerr, J. External morphology of the Devonian placoderm Bothriolepis canadensis revisited in 3D
3:00 Blais, S., Wilson, M. Articulated Ischnacanthid acanthodian jaws from the moth locality provide evidence for specialized feeding in early Devonian gnathostomes
3:15 Johanson, Z., Meredith Smith, M., Kearsley, A., Mark-Kurik, E., Howard, C. Invasive Dentine growth in a 380-million year old fish is co-opted for wound repair in dermal bone as the first step in the evolution of damage repair
3:30 Coates, M., Criswell, K., Verner, E. Warde Nodules Unpacked: Computed Tomographic Investigation of Newly Recognized Specimens of Tristychius, a Pivotal Taxon in Chondrichthyan Phylogeny
3:45 Sallan, L. The ontogeny of Romer’s Gap fishes (Tournaisan, Carboniferous) and the establishment of Post-Hangenberg Ray-finned Fish (Actinopterygii) Diversity
4:00 Schumacher, B., Malese, A. When plankton ruled the Comanche National Grassland: Discovery of a Third North American Cretaceous Filter-feeding Vertebrate

FRIDAY AFTERNOON, NOVEMBER 1, 2013
Poster Session III
Westin Bonaventure Hotel & Suites, Exhibit Hall
Authors must be present from 4:15 - 6:15 p.m.
Posters must be removed by 6:30 p.m.

1 Devlin, K., Jefcoat, B., Sumida, S. Digital modeling and 3D visualization of the axial skeleton of the early Permian captorhinid reptile Labidosaurus
2 Sumida, S., Berman, D., Jefcoat, B., Henrici, A., Martens, T. New information on the hindlimb structure of the early Permian boleosaurid reptile Eudibamus cursoris, the earliest known facultative biped
3 Imai, T., Varricchio, D., Cahoon, J., Plymesser, K. Sedimentological analyses of eggshell transport and deposition: implications and application to eggshell taphonomy

Thomson, T.  FIRST OCCURRENCE OF REPTILE TRACKS (PROCOLOPHONICHNIUM) FROM THE LOWER TRIASSIC MOENKOPI FORMATION (SHNABKAIB MEMBER) OF SOUTHWESTERN UTAH WITH PALEOENVIRONMENTAL IMPLICATIONS

Matsumoto, R., Evans, S.  FEEDING BEHAVIOR AND THE FUNCTIONAL ANATOMY OF THE NECK IN THE LONG-SNOUTED CHORISTODERANS CHAMPSOSAURUS AND SMOEDOSAURUS (REPTILIA: DIAPSIDA)

Bailleul, A., Scannella, J., Horner, J.  ONTOGENY OF CRANIAL SUTURES IN ALLIGATOR MISSISSIPPIENSIS: IMPLICATIONS FOR MATURITY ASSESSMENT IN NON-AVIAN DINOSAURS

Salas-Gismondi, R., Antoine, P., Clarke, J., Baby, P., Urbina, M.  CROC’S TWO REALMS: NEW CENOZOIC DISCOVERIES FROM THE AMAZONIAN BASIN AND THE PACIFIC COAST OF PERU

Gold, M., Norell, M.  SIZING UP THE POSITION OF GAVIALIS USING GEOMETRIC MORPHOMETRICS OF CROCODYLIAN BRAINCASES

King, L., Lynch, E., Schubert, B.  CRANIAL PIT DEVELOPMENT IN EXTANT AND FOSSIL ALLIGATOR

Souza, R., Riff, D., Kellner, A.  PHYLOGENETIC ANALYSIS OF SOUTH AMERICAN GAVIALOIDS

Cidade, G., Riff, D., Souza-Filho, J., Hsiou, A., Montefeltro, F.  DESCRIPTION OF NINE NEW SPECIMENS OF MOURASUCHUS NATIVUS (ALLIGATOROIDEA, CAIMANINAE), AND COMMENTS ON ONTOGENETIC DEVELOPMENT AND INTRASPECIFIC VARIATION OF THE SKULL TABLE

Whiting, E., Hastings, A.  AN EOCENE OCCURRENCE OF A DYROSaurID (CROCODYLomorpha, MESOEUROCROCODILIA) FROM ALABAMA, USA

Andrade, R., Sayão, J.  DESCRIPTIVE PALEOHISTOLOGY ON GLARIINSUCHUS MUNIZI (DYROSauridae, CROCODYLomorpha) LONG BONES AND THEIR INFERENCES ON ITS LIFESTYLE

Burkey, M.  A PHYLOGENETIC ANALYSIS OF WOODBINESUCHUS BYERSMAURICEI, AND A POTENTIAL NEW CLADE OF NEOSUCHIANS

Carbot-Chanona, G., Brochu, C., Buscalioni, A., Reynoso Rosales, V.  NEW LIGHT ON THE EVOLUTIONARY RELATIONSHIPS BETWEEN "THORACOSAURS" AND MODERN GHARIALS: EVIDENCE FROM A NEW GAVIALOID FROM THE LATE CRETACEOUS OF CHIAPAS, MEXICO


Godoy, P., Montefeltro, F., Langer, M.  FIRST RECORD OF ABDOMINAL CONTENTS IN FOSSIL CROCODYLIFORMES

Wayrynen, K., Carrano, M.  AN ASSESSMENT OF CLOVERLY FORMATION (LOWER CRETACEOUS) CROCODYLomorPH DIVERSITY USING TOOTH MORPHOLOGY

Belmonte, S., Figueiredo, R., Carvalho, L., Azevedo, S., Romano, P.  ON THE APPENDICULAR ANATOMY OF MARILIASUCHUS AMARALI (CROCODYLIFORMES: NOTOSUCHIA) FROM THE UPPER CRETACEOUS (BAURU GROUP) OF BRAZIL

Bremer, O., Kear, B.  REASSESSMENT OF THE 'LAST' GONIOPHOLID: DENAZINOSUCHUS KIRTLANDICUS FROM THE LATE CRETACEOUS OF NEW MEXICO

Brandau, D.  CROCODYLIFORM FEEDING TRACES ON CERATOSAURID DINOSAURS FROM THE UPPER CRETACEOUS (LATE CAMPAIGNIAN) KAIPAROWITS FORMATION, SOUTHERN UTAH

Dinter, C., Irmis, R.  CROCODYLIFORM BITE MARKS ON AN ARTICULATED GRYPOSaurus (DINOSAURIA: HADROSauridae) CRANIUM FROM THE UPPER CRETACEOUS OF SOUTHERN UTAH

Delcourt, R., Nascimento, R., Carvalho, A., Zaher, H.  PELVIC GIRDLE AND HIND LIMB MUSCULATURE OF BAURUSUCHUS ALBERTOI: A BIOMECHANICAL APPROACH

Arcucci, A., Ortega, F., Pol, D., Chiappe, L.  A NEW CROCODYLomORPH FROM THE MORRISON FORMATION (LATE JURASSIC: KIMMERIDGIAN - EARLY TITHONIAN?) FROM THE FRUITA PALEONTOLOGICAL AREA, WESTERN COLORADO, USA

Drymala, S., Zanno, L., Nesbitt, S., Schneider, R.  A LARGE NEW CROCODYLomORPH (SUCHIA, ARCHOSauria) WITH BIZARRE SKULL MORPHOLOGY FROM THE UPPER TRIASSIC OF NORTH CAROLINA

Parker, W., Stocker, M.  THE EFFECT OF PROXY 'HOLOTYPES' ON TAXONOMIC PRACTICES FOR VERTEBRATE FOSSILS

Barrett, P., Evans, D.  DINOSAUR INTEGUMENT: WHAT DO WE REALLY KNOW?

Kim, J., Lee, E., Choi, M., Kim, Y.  CORRELATIVE MICROSCOPIC INVESTIGATIONS OF MICROSTRUCTURES AND PHASES FROM DINOSAUR RIB BONES AND THE ASSOCIATED MUDSTONE

Corresponding board numbers in left hand column
Howell, L., Heckert, A.  
A NEW DATABASE OF DINOSAURIAN PALEOPATHOLOGY

Anne, J., Wogelius, R., Edwards, N., Sellers, W., Manning, P. L.  
SYNCHROTRON ANALYSIS OF PATHOLOGIC BONE: CHEMISTRY AND MORPHOLOGY IN EXTINCT AND EXTANT ARCHOSAUR BONE

Xu, X., Zhao, Q., Han, F.  
HOMEOTIC TRANSFORMATION IN THE EVOLUTION OF THE THEROPOD SEMILUNATE CARPAL

Stiegler, J., Wang, S., Xu, X., Clark, J.  
CODING INDIVIDUAL SPECIMENS AS TAXA: TEST CASES AID IN RESOLVING THE RELATIONSHIPS OF BASAL NEOHEROPODA, GAUGE TOPOLOGICAL SENSITIVITY TO TAXON SAMPLING, AND PRODUCE NOVEL TAXONOMIC HYPOTHESES

Dececchi, A., Habib, M., Larsson, H.  
TESTING WING ASSISTED INCLINE RUNNING (WAIR): INVESTIGATING THE TERRESTRIAL ORIGIN OF THE AVIAN FLIGHT STROKE

Pittman, M., Hutchinson, J.  
The evolution of tail joint stiffness in oviraptorosaur dinosaurs and its consequences for tail function

Wang, S., Zhang, S., Xu, X.  
NEW OVIRAPTORID (THEROPODA, OVIRAPTOROSAURIA) EMBRYOS FROM THE UPPER cretaceous of southern china

Funston, G., Currie, P., Murray, A.  
EXAMINING THE DIET OF A TOOTHLESS DINOSAUR: EVIDENCE SUPPORTING A HERBIVOROUS DIET IN CAENAGNATHUS (DINOSAURIA: OVIRAPTOROSAURIA)

Button, K., Zanno, L.  
TOOTH ENAMEL MICROSTRUCTURE OF THE EARLY cretaceous THERIZINOSAURIAN FALCARIUS UTAHENSIS (THEROPODA, MANIRAPTORA)

Smith, D.  
RECONSTRUCTION OF THE BRAINCASE AND ASSOCIATED SOFT TISSUES OF THE NORTH AMERICAN THERIZINOSAUR NOTHRONYCHUS MCKINLEYI

Dyke, G., De Kat, R., Palmer, C., Naish, D., Ganapathisubramani, B.  
AERODYNAMIC PERFORMANCE OF THE FEATHERED DINOSAUR MICRORAPTOR AND ITS IMPLICATIONS FOR THE EVOLUTION OF FEATHERED FLIGHT

Parsons, W., Parsons, K.  
ONTGENY OR PHYLOGENY? CLADISTIC PLACEMENT OF A JUVENILE DROMAEOSAURID FROM THE LOWER cretaceous OF MONTANA

Anduza, D., Fowler, D., Noto, C., Horner, J.  
NEW ALVAREZSAURID MATERIAL FROM THE HELL CREEK FORMATION, MONTANA

Mcefeeters, B., Ryan, M., Schröder-Adams, C.  
NEW DATA ON A PARTIAL SKELETON REFERRED TO STRUTHIOMIMUS ALTUS (ORNITHOMIMIDAE) FROM DINOSAUR PROVINCIAL PARK, ALBERTA

Cuff, A.  
FUNCTIONAL MECHANICS OF ORNITHOMIMOSAURS

Judd, H., Irms, R., Kirkland, J.  
a new large-bodied theropod dinosaur from the lower cretaceous cedar mountain formation (ruby ranch member) in central utah

Larson, P.  
The validity of nanotyrannus lancensis (theropoda, lancian - upper maastichton of north america)

Bradley, G., Currie, P.  
TOOTH AND POSTCRANIAL GROWTH RATES IN A JUVENILE GORGOSAURUS LIBRATUS

Evers, S., Foth, C., Rauhut, O., Pabst, B., Mateus, O.  
TRAUMATIC PATHOLOGIES IN THE POSTCRANIUM OF AN ADULT ALLOSaurus SPECIMEN FROM THE MORRISON FORMATION OF THE HOWE QUARRY, WYOMING, U.S.A.

Bykowski, R.  
ASSESSING THE POTENTIAL FOR ONTOGENETIC ECOMORPHOLOGY IN THEROPODS: A CASE STUDY USING ALLOSaurus FRAGILIS FROM THE CLEVELAND-LLOYD QUARRY

Cuesta, E., Ortega, F., Sanz, J.  
SOLVING THE SYNONYM ISSUE IN CONCAVENATOR CORCOVATUS AND BECKLESPINAX ALTISPINAX, TWO DISTINCT THEROPODS FROM THE LOWER CRETAEOUS OF EUROPE

Simon, D., Barto, D., Maxwell, W., Varricchio, D.  
ELONGATOLITHID (DINOSAURIA: THEROPODA) EGGSHELL FROM THE LOWER CRETAEOUS CLOVERLY FORMATION, MONTANA: A TAPHONOMIC INVESTIGATION OF APPARENT EGGSHELL DIVERSITY

Ribeiro, V., Holwerda, F., Mateus, O.  
THEROPOD EGGSITES FROM THE LOURINHA FORMATION, PORTUGAL

Larson, D., Brown, C., Evans, D.  
DISPARITY DYNAMICS OF SMALL THEROPOD (COELUROSAURIA: DINOSAURIA) TOOTH ASSEMBLAGES FROM THE LATE CRETAEOUS OF NORTH AMERICA

Magana, J., D’Amore, D., Molnar, R., Hall, J.  
IDENTIFYING ISOLATED SHED TEETH FROM THE KIRTLAND FORMATION OF NORTHWESTERN NEW MEXICO

Serrano-Martinez, A., Ortega, F., Knoll, F.  
ISOLATED THEROPOD TEETH FROM THE “ARGILES DE L’IRHAZER” (MIDDLE JURASSIC) OF NIGER

Torices, A., Bradley, G., Currie, P.  
ONTOGENETIC VARIABILITY IN UPPER CRETAEOUS THEROPOD TEETH

Corresponding board numbers in left hand column
Cullen, T., Ryan, M., Capobianco, C., Newbrey, M., Evans, D.  A VERTEBRATE MICROFOSSIL SITE WITH A TERRESTRIAL-DOMINATED FAUNAL ASSEMBLAGE FROM THE UPPER FOREMOST FORMATION (CAMPANIAN) OF ALBERTA

Schwermann, A., Kullmer, O., Martin, T.  MORPHOLOGY AND FUNCTION OF THE EXTANT DIDELPHIS MOLAR DENTITION IN COMPARISON TO MESOZOIC DIDELPHIMORPHA

Urban, D., Beck, A., Marcot, J., Sears, K.  EVOLUTIONARY TRENDS IN BODY SIZE OF THE SYNAPSID LINEAGE LEADING TO MESOZOIC MAMMALS

Smith, S., Wilson, G.  MAMMALIAN DENTAL ECOMORPHOLOGY AND DISPARITY ACROSS THE CRETACEOUS-PALEOGENE BOUNDARY: A COMPARISON OF 3D METRICS

Montelano, M., Fox, R., Scott, C.  SPECIES COMPOSITION OF THE LATE CRETACEOUS EUTHERIAN MAMMAL PARANYCTOIDES FOX

Krause, D., Hoffmann, S., Nestler, J.  FIRST ASSOCIATED UPPER DENTITION OF A GONDWANATHERIAN MAMMAL


Rougier, G., Martinelli, A., Schöning, M.  NEW SPECIMENS OF THE LATE CRETACEOUS MAMMAL COLONIATHERIUM CILINSKII (MAMMALIA, MERIDOLESTIDA): DENTAL ANATOMY, RECONSTRUCTION OF THE DENTAL SERIES, AND RELATIONSHIPS OF SOUTH AMERICAN MERIDOLESTIDS

Raisanen, D., Hasioitis, S.  POTENTIAL VERTEBRATE BURROWS IN THE SALT WASH MEMBER, UPPER JURASSIC MORRISON FORMATION

Schulz, J., Ruf, I., Averianov, A., Lopatin, A., Martin, T.  FIRST DOCODONT PETROSALS FROM THE MIDDLE JURASSIC OF WESTERN SIBERIA (RUSSIA)

Jäger, K., Luo, Z., Martin, T.  CT SCANNING AND 3D IMAGE ANALYSIS OF THE POSTCRANIAL SKELETON OF HENKELOTHERIUM GUIMAROTAE (CLADOTHERIA, MAMMALIA) FROM THE LATE JURASSIC OF PORTUGAL AND ITS LOCOMOTOR ADAPTATIONS

Brinkkötter, J., Martin, T.  MOLAR MORPHOLOGY AND FUNCTION OF HALDANODON ESPECTATUS (DOCODONTA, MAMMALAIFORMES)

Templeman, T., Williamson, T.  A VERTEBRATE FAUNA FROM THE SANTONIAN – LOWER CAMPANIAN MENEEFEE FORMATION, SAN JUAN BASIN, NEW MEXICO


Sonobe, H., Kobayashi, Y., Lü, J., Barsbold, R., Chiba, K.  VERTEBRATE COPROLITES FROM THE GURVAN EREEN FORMATION (LOWER CRETACEOUS) IN TATLAL, WESTERN MONGOLIA


Martinez, R., Apaldetti, C., Pradero, A., Fernandez, E., Colombi, C.  TRIASSIC-JURASSIC BOUNDARY IDENTIFIED WITH VERTEBRATE FOSSILS IN NORTHWESTERN ARGENTINA (MARAYES-EL CARRIZAL BASIN)

Harrison, A., Heckert, A., Krzyzanowski, S.  A MICROVERTEBRATE ASSEMBLAGE FROM THE UPPER TRIASSIC BLUE MESA MEMBER, PETRIFIED FOREST FORMATION (ADAMANIAN) OF THE BLUE HILLS IN EAST-CENTRAL ARIZONA

Sues, H., Schoch, R.  A REMARKABLE ASSEMBLAGE OF LADINIAN-AGE VERTEBRATES FROM SOUTHERN GERMANY: A NEW WINDOW ON LATE MIDDLE TRIASSIC CONTINENTAL TETRAPOD BIODIVERSITY

Egi, N., Tsubamoto, T., Watabe, M., Saneyoshi, M., Tsogtbaatar, K.  NIMRAVIDS AND STENOPLESICTIDS (MAMMALIA, CARNIVORA) FROM THE UPPER EOCENE OF MONGOLIA AND THEIR PALEOBIOGEOGRAPHIC SIGNIFICANCE

Boyd, C., Welsh, E.  INVESTIGATING THE TAXONOMIC UTILITY OF SERRATION DENSITY ON THE CANINES OF NORTH AMERICAN NIMRAVID FELIFORMS


Welsh, E.  NEW MATERIAL FROM THE RARE AMPHICYONID GENUS PARADAPHOENUS AND ITS IMPLICATIONS ON THE VALIDITY OF CANIFORM CARNIVORES IDENTIFIED WITHIN CHADRONIAN THROUGH ARIKAREEAN COLLECTIONS

Anton, M., Siliceo, G., Salesa Calvo, M., Morales, J.  
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Vinuesa, V., Madurell-Malapeira, J., Fortuny, J., Alba, D.  
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Dewar, E., Crocker, C.  
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SATURDAY MORNING, NOVEMBER 2, 2013
Symposium 4: Patterns from the Poles: Biodiversity and Paleocology of High Latitude Fossil Vertebrates
Westin Bonaventure Hotel & Suites, Sacramento Ballroom
MODERATORS: Matthew Vavrek and Nathan Smith

8:00  Brazeau, M., Giles, S., Friedman, M.  AN OSTEICHTHYAN-LIKE SKULL FROM SIBERIA AND THE EVOLUTION OF CROWN GNATHOSTOME BRAINCASE MORPHOLOGY
8:15  Steyer, J., Sidor, C., Hammer, W.  TRIASSIC TEMNOSPONDYLDS FROM ANTARCTICA ILLUSTRATE THE RECOVERY OF HIGH-LATITUDE FAUNAS AFTER THE PERMO-TRIASSIC EXTINCTION
8:30  Sidor, C., Huttenlocker, A. K., Peecook, B., Smith, R., Vilhena, D.  NEW DATA ON THE MIDDLE TRIASSIC TETRAPODS OF ANTARCTICA AND FAUNAL PROVINCIALIZATION ACROSS SOUTHERN PANGEA
8:45  Andres, B., Smith, N.  THE FIRST PTEROSAUR FROM ANTARCTICA
9:00  Makovicky, P., Boudreau, D., Hammer, W., Smith, N.  GROWTH PATTERNS OF EARLY JURASSIC ANTARCTIC DINOSAURS INFERRED FROM PALEOHISTOLOGICAL ANALYSIS
9:15  Smith, N., Hammer, W., Makovicky, P.  ANATOMY OF A NEW SAUROPODOMORPH DINOSAUR FROM THE EARLY JURASSIC HANSON FORMATION OF ANTARCTICA
9:30  Godfrey, P., Sinitza, S., Dhouvalli, D., Bolotsky, Y., Sizov, A.  FEATHER-LIKE STRUCTURES AND SCALES IN A JURASSIC NEORNITHISCHIAN DINOSAUR FROM SIBERIA
9:45  Tarduno, J., Brinckman, D., Clarke, J., Bono, R., Higgins, P.  THE ULTRA-WARM ARCTIC CA. 90 MILLION YEARS AGO: CONSTRAINTS ON PALEOClimATE AND BIOGEOGRAPHY FROM VERTEBRATE FOSSILS
10:00 BREAK
10:15  Vavrek, M. J., Harrison, L., Cumbaa, S., Becker, M., Larsson, H.  LATITUDINAL GRADIENTS AND PROVINCIALITY IN CHONDRICHTHYAN FAUNAS FROM THE LATE CRETACEOUS NORTH AMERICA
10:30  Druckenmiller, P., Erickson, G., Brinckman, D., Brown, C., Mori, H.  EVIDENCE FOR A DISTINCT EARLY MAASTRICHTIAN POLAR DINOSAUR FAUNA FROM THE PRINCE CREEK FORMATION OF NORTHERN ALASKA
10:45  Fiorillo, A., Tykoski, R.  DISTRIBUTION AND POLAR PALEOENVIRONMENTS OF LARGE THERIPOD SKELETAL REMAINS FROM THE PRINCE CREEK FORMATION (EARLY-LATE MAASTRICHTIAN) OF NORTHERN ALASKA
11:00  Case, J.  VERTEBRATE DIVERSITY AND RESPONSE TO OCEAN TEMPERATURE DECLINE DURING THE LATEST CRETACEOUS IN THE ANTARCTIC PENINSULA

11:15  Mörs, T., Gelfo, J., Reguero, M., Lorente, M., López, G.  THE OLDEST KNOWN (EARLY EOCENE) MAMMAL FROM ANTARCTICA

11:30  Gottfried, M., Eberle, J., Hutchison, J.  NEW BONY FISH RECORDS FROM THE CANADIAN ARCTIC EOCENE GREENHOUSE OF BANKS ISLAND, NORTHWEST TERRITORIES

11:45  Rybczynski, N., Fraser, D., Buckley, M., Gosse, J.  FIRST EVIDENCE FOR A HIGH ARCTIC CAMEL SUGGESTS HIGH LATITUDE ORIGINS FOR CAMELUS ANCESTOR

12:00  Macphee, R., Zazula, G.  PLEISTOCENE LARGE MAMMAL DISPERSALS AND REGIONAL EXTIRPATIONS IN HIGH-LATITUDE NORTH AMERICA

SATURDAY MORNING, NOVEMBER 2, 2013
Technical Session XIV
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
MODERATORS: Michael Habib and Daniel Ksepka

8:00  Falkingham, P., Gatesy, S.  USING AVIAN SUBSURFACE 3D FOOT MOTION TO SIMULATE FOSSIL TRACK DIVERSITY

8:15  Pei, R., Li, Q., Meng, Q., Norell, M., Gao, K.  EXCELLENTLY PRESERVED NEW SPECIMENS OF ANCHIORNIS AND THE IMPLICATION OF EARLY EVOLUTION IN PARAVES

8:30  Habib, M.  EVIDENCE AGAINST RUNNING TAKEOFF IN ARCHAEOPTERYX: BREAKING THE TERRESTRIAL VS. ARBOREAL DICHOTOMY

8:45  Heers, A., Dial, K.  WINGS VERSUS LEGS IN THE THEROPOD-AVIAN LINEAGE: MECHANISTIC UNDERPINNINGS OF VARIATION IN Locomotor Strategies

9:00  Field, D., Lynner, C.  PRECISE INFERENCE OF AVIALAN FLIGHT ABILITY FROM SHOULDER JOINT DIMENSIONS

9:15  Hall, J., Habib, M.  FUNCTIONAL SIGNIFICANCE OF FEATHER ASYMMETRY IN EXTANT AVIANS AND PREDICTED FLIGHT PERFORMANCE IN EXTINCT TAXA

9:30  Foth, C., Rauhut, O.  A NEW LOOK FOR AN OLD BIRD: A NEW SPECIMEN OF ARCHAEOPTERYX WITH EXCEPTIONAL FEATHER PRESERVATION PROVIDES NEW INSIGHTS INTO THE EVOLUTION OF FEATHER PLUMAGES WITHIN MANIRAPTORA

9:45  Manning, P., Vogelius, R., Bergmann, U., Schwarz-Wings, D., Sellers, W.  SYNCHROTRON-BASED CHEMICAL IMAGING REVEALS PLUMAGE PATTERNS IN ARCHAEOPTERYX.

10:00  BREAK

10:15  Gearty, W., D’Alba, L., Vinther, J., Shawkey, M., Field, D.  MELANIN CONCENTRATION GRADIENTS IN MODERN AND FOSSIL FEATHERS

10:30  Egerton, V., Bergmann, U., Vogelius, R., Norell, M., Manning, P., L.  SYNCHROTRON-BASED IMAGING REVEALS CHEMOTAPHONOMY OF TWO BIRDS FROM THE GREEN RIVER FORMATION (EOCENE)

10:45  Chan, N.  THE DROMORNITHID OR THE EGG? SIZE CONSTRAINTS IN FLIGHTLESS BIRDS

11:00  Bright, J., Cobb, S., Marugan-Lobon, J., Rayfield, E.  CAN MORPHOLOGY PREDICT DIETARY ECOLOGY IN LIVING AND EXTINCT BIRDS OF PREY?

11:15  Stidham, T., Ni, X.  REWRITING AVIAN BIOGEOGRAPHY WITH THE PALEOGENE FOSSIL RECORD FROM CHINA

11:30  Ksepka, D.  NEW OLIGOCENE WATERBIRDS: PHYLOGENETIC ANALYSES AND IMPLICATIONS FOR TRANSITIONS IN THE WESTERN ATLANTIC AVIFAUNA

11:45  Watanabe, J., Matsuoka, H.  SYSTEMATICS OF A FLIGHTLESS DUCK FROM THE PLEISTOCENE OF SHIRIYA, NORTHEAST JAPAN

12:00  Gilbert, K., Koch, P., McCarthy, M., Baroni, C., Lorenzini, S.  ILLUMINATING HOLOCENE DIET SHIFTS IN PENGUINS WITH COMPOUND SPECIFIC ISOTOPE ANALYSIS

SATURDAY MORNING, NOVEMBER 2, 2013
Technical Session XV
Westin Bonaventure Hotel & Suites, San Jose Ballroom
MODERATORS: Robert Fordyce and Aaron Wood

8:00  Figueirido, B., Martin-Serra, A., Perez-Claros, J., Palmqvist, P., Janis, C.  ON THE EVOLUTION OF THE PREDATORY BEHAVIOR OF NORTH AMERICAN CANIDS AND ITS RELATIONSHIP WITH ENVIRONMENTAL TRANSFORMATION AND CLIMATIC CHANGE

8:15  Reid, R., Koch, P.  DID INTERFERENCE COMPETITION BETWEEN GRIZZLY BEARS AND COYOTES PREVENT HOLOCENE COASTAL COYOTES FROM CONSUMING MARINE FOODS?

8:30  Fitzgerald, E., Hastie, D., Buckrider, J., Scofield, P.  EARLIEST SEALS FROM AUSTRALASIA REVEAL COLONIZATION OF THE SOUTHERN OCEAN BY ARCHAIC MONACHINAE (PHOCIDAE)
8:45 Kienle, S., Berta, A. PINNIPED SKULLDUGGERY: THE EVOLUTION OF FEEDING STRATEGIES IN PHOCIDS (PINNIPEDIA, PHOCIDAE)

9:00 Churchill, M., Clementz, M. EVIDENCE FOR PIERCE FEEDING IN ENALIARCTOS (CARNIVORA, PINNIPEDIMORPHA) FROM TOOTH SPACING AND CROWN SIZE


9:45 Domning, D., Velez-Juarbe, J. THE SIRENIAN GENUS METAXYTHERIUM: WHAT’S UP WITH THOSE ANIMALS??

10:00 BREAK

10:15 Gingerich, P., Antar, M., Zalmout, I. FAUNAS OF WHALES AND SEA COWS (CETACEA AND SIRENIA) FROM MIDDLE AND UPPER EOCENE STRATA IN WESTERN FAYUM PROVINCE, EGYPT

10:30 Ekdale, E. INNER EAR STRUCTURE OF EARLY MYSTICETES (CETACEA) FROM THE LATE OLIGOCENE OF SOUTH CAROLINA: IMPLICATIONS FOR THE EVOLUTION OF HEARING IN BALEEN WHALES

10:45 Tsai, C., Fordyce, R. EARLY EVOLUTIONARY RADIATION IN BALEEN WHALES (CETACEA: MYSTICETI) FROM THE OLIGOCENE OF NEW ZEALAND

11:00 Boessenecker, R., Fordyce, R. ANATOMY AND ONTOGENY OF A TRANSITIONAL BALEEN WHALE: A NEW EOMYSTICETID (MAMMALIA, CETACEA) FROM THE LATE OLIGOCENE OTEKAIKE LIMESTONE OF NEW ZEALAND

11:15 Fordyce, R., Aguirre-Fernández, G., Loch, C. LATE OLIGOCENE TUSKED DOLPHIN FROM THE WAITAI REGION, NEW ZEALAND

11:30 Lambert, O., Bianucci, G., De Muizon, C., Urbina, M. A NEW ARCHAIC SHARK-TOOTHED DOLPHIN FROM THE LATE OLIGOCENE-EARLY MIOCENE OF PERU


12:00 Gutstein, C., Pyenson, N., Figueroa-Bravo, C., Canals, M., Cozzuol, M. FACIAL MORPHOLOGY PROXIES OF SKULL PATTERNS IN TOOTHED WHALES AND THEIR IMPLICATIONS FOR STUDYING SOUND GENERATION IN FOSSIL ODONTOCETI

SATURDAY AFTERNOON, NOVEMBER 2, 2013
Technical Session XVI
Westin Bonaventure Hotel & Suites, San Francisco Ballroom
MODERATORS: Ryosuke Motani and Gabriel Bever

1:45 Whatley, R., Behrensmeyer, A., McIntire, S., Ramezani, J., Parker, W. FIRST PTEROSAUR DENTARY AND POSTCRANIA FROM THE UPPER TRIASSIC OWL ROCK MEMBER, CHINLE FORMATION, PETRIFIED FOREST NATIONAL PARK, ARIZONA

2:00 Upchurch, P., Andres, B., Butler, R., Barrett, P. AN ANALYSIS OF THE BIOGEOGRAPHIC HISTORY OF PTEROSAURS

2:15 Motani, R., Jiang, D., Tintori, A., Rieppel, O., Chen, G. HIGH DIVERSITY OF EARLY TRIASSIC ICHTHYOPTERYGIANS REVEALED THROUGH DETAILED EXCAVATION IN CHAOHU, ANHUI, CHINA

2:30 Schmitz, L., Motani, R., Wainwright, P. EVOLUTIONARY DRIVERS OF GIANT EYES IN LARGE OCEAN PREDATORS

2:45 Bever, G., Lyson, T. CRANIAL EVOLUTION AND THE ORIGIN OF TURTLES: INSIGHTS FROM EUNOTOSAURIUS AFRICANUS

3:00 Danilov, I., Obraztsova, E., Syromyatnikova, E., Krasnolutskii, S. NEW DATA ON A XINJIANGCHELYID TURTLE FROM THE MIDDLE JURASSIC OF SIBERIA, RUSSIA

3:15 Stayton, C., Cadena, E. EXCEPTIONAL MECHANICAL PERFORMANCE IN THE SHELLS OF TWO CENOZOIC TURTLES: STUPENDEMYS AND CERREJONEMYS


3:45 Modesto, S., Lamb, A., Reisz, R. RE-APPRAISAL OF THE CAPTORHINID REPTILE CAPTORHINIKOS VALENSIS FROM THE LOWER PERMIAN OF TEXAS

4:00 Tsuji, L., Sidor, C., Smith, R., Angielczyk, K. THE FIRST PROCOLOPHONID FROM THE MANDA BEDS OF SOUTHERN TANZANIA AND ITS IMPLICATIONS FOR MIDDLE TRIASSIC BIOGEOGRAPHY
### Technical Session XVII

**Westin Bonaventure Hotel & Suites, Sacramento Ballroom**

**Moderators:** Akinobu Watanabe and Robert Anemone

1:45  
**Lovelace, D., Butler, R.**  
**Quantifying Triassic Sedimentation Across the Western United States: Perception, Preservation, and Paleontology**

2:00  
**Anemone, R., Emerson, C., Nachman, B.**  

2:15  
**Lloyd, G., Friedman, M.**  
*A Novel Method for Time-Binning Rates of Continuous Character Evolution on a Phylogeny*

2:30  
**Alroy, J.**  
*Still Around or Gone Forever? Bayesian Credible Intervals on Temporal Ranges*

2:45  
**Sansom, R., Wills, M.**  
*Fossilization Filters Result in Significant Loss of Phylogenetic Signal and Cause Organisms to Appear Erroneously Primitive*

3:00  
**Watanabe, A., Norell, M.**  
*Tree Building from Noah's Ark: The Impact of Poor Sampling Within Species on Phylogenetic Reconstruction*

3:15  
**Smithson, T., Smithson, T., Clack, J.**  
*New Tetrapod and Fish Faunas from the Earliest Carboniferous of Scotland*

3:30  
**Lu, J., Zhu, M., Ahlberg, P., Qiao, T.**  
*Cranial Structure in the Early Devonian Onychodont Qingmenodius Yui and Its Implications for the Phylogenetic Position of Onychodontiformes Among Sarcopterygians*

3:45  
**Chevrinais, M., Cloutier, R., Bechard, I.**  
*Profile of a Devonian Killer: Eusthenopteron Forordi, Top-Predator of the Escuminac Fish Assemblage*

4:00  
**Wendruff, A., Wilson, M.**  
*Morphological and Species Diversity of Coelacanths from the Lower Triassic Sulphur Mountain Formation of British Columbia, Canada*

### Technical Session XVIII

**Westin Bonaventure Hotel & Suites, San Jose Ballroom**

**Moderators:** David Levering and Allistair Evans

1:45  
**Pol, D., Carballido, J., Rauhut, O., Rougier, G., Sterli, J.**  
*Biogeographic Distribution Patterns of Tetrapods During the Jurassic: New Information from the Cañadón Asfalto Basin, Patagonia, Argentina*

2:00  
**Martin, T., Goin, F., Chernogubsky, L., Gelfo, J., Schultz, J.**  
*Early Late Cretaceous (Cenomanian) Mammals and Other Vertebrates from the Mata Amarilla Formation of Southern Patagonia (Argentina)*

2:15  
**Bercovici, A., Hunter, J., Knauss, G., Wood, J., Pearson, D.**  
*Out with the Old, In with the New: Vertebrate Microstratigraphy Documenting the Immediate K–Pg Mass Extinction Recovery*

2:30  
**Levering, D., Luttbeg, B.**  
*Of Multituberculates and Mass Extinction: Evidence of Selection for Small Body Size Within the Cimolodont (Multituberculata) Across the Cretaceous-Paleogene Extinction Boundary, Followed by Morphospace Recovery and Expansion in the Earliest Paleogene*

2:45  
**Chen, M., Luo, Z., Wilson, G.**  
*Morphometric Analysis of Locomotor Specialization in the Cretaceous Mammal Yanoconodon: Implications for Ecomorphological Diversification Within Eutriconodont Mammals*

3:00  
**Hoffmann, S., O'Connor, P., Krause, D.**  
*First Endocranial Reconstruction of a Gondwanatherian Mammal*

3:15  
**Rayfield, E., Gill, P.**  
*A Functional Insight into the Evolution of the Definitive Mammalian Middle Ear*

3:30  
**Evans, A., Chieu, T., Siu, K., Rich, T.**  
*Predicting the Shape of Undiscovered Fossils*

3:45  
**Grossnickle, D., Polly, P., Luo, Z.**  
*Morphological Disparity of Mesozoic Mammals Through Time*

4:00  
**Oreska, M., Carrano, M.**  
*Adapting Modern Community Ecology Techniques for Terrestrial Paleoecology: Insights from the Early Cretaceous Cloverly Formation*
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