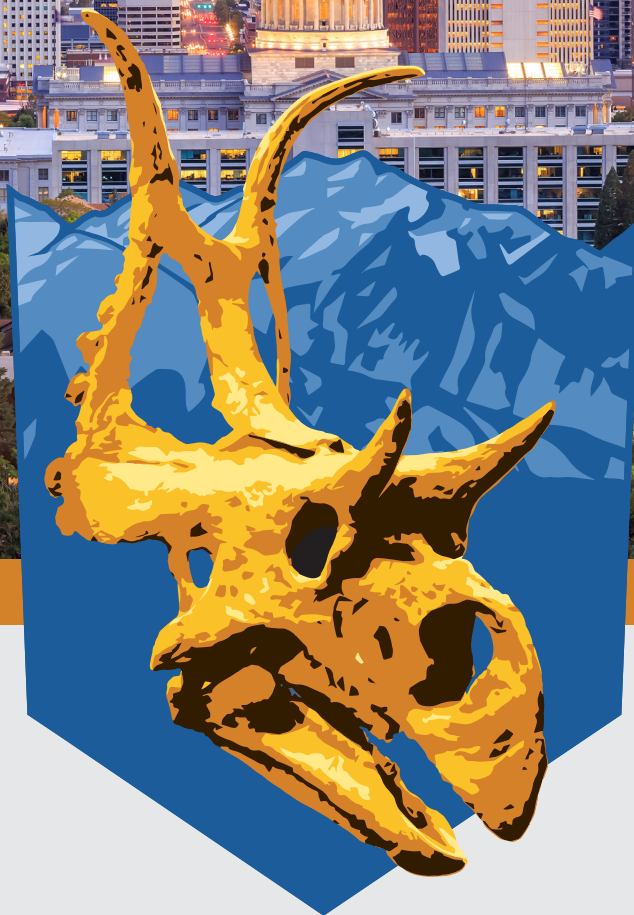


Program Schedule



SVP 2016

SVP 76TH ANNUAL MEETING



October 26–29, 2016 · Grand America Hotel · Salt Lake City, Utah, USA

The Society of Vertebrate Paleontology Thanks This Year's Meeting Sponsors

Silver Sponsors



Bronze Sponsor



Tote Bag Sponsor



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

The 2016 Host Committee

Benjamin Breedon
Scott Foss
Martha Hayden
ReBecca Hunt-Foster

Randall Irmis
James Kirkland
Carolyn Levitt-Bussian
BJ Nicholls

The 2016 Program Committee

David Evans, Co-Chair
Mary Silcox, Co-Chair
Heather Ahrens
Brian Beatty
Martin Brazeau
Chris Brochu
Richard Butler
Darin Croft

Ted Daeschler
Larisa DeSantis
Pat Holroyd
Samantha Hopkins
Marc Jones
Christian Kammerer
Josh Miller

Kevin Padian
Brian Rankin
Lauren Sallan
William Sanders
Mark Uhen
Paul Upchurch
Lindsay Zanno

Table of Contents

Sponsors and Supporters	1
Thank You to Committees	1
SVP Pledge Form.....	3
General Information	4
Registration Hours	4
Exhibit Hours	4
Poster Hours	4
Speaker Ready Room	5
Auction Drop Off.....	5
Business Center	5
Child Care/Family Room.....	5
Coffee Breaks.....	5
First Aid.....	6
Romer Prize Session	6
E&O Session	6
Colbert Prize Session.....	6
Preparators' Table.....	6
Preparators' Session	6
Program and Abstract Book.....	6
Recordings Prohibited.....	6
Wi-Fi Service	6
SVP on Twitter	6
Code of Conduct.....	7
Program and Abstract Book Updates	8
Special Events	9
Committee Meeting Schedule	12
34 th Annual Benefit Auction and Social	13
2017 Call for Workshop/Field Trip Proposals	14
2017 Call for Symposia Proposals.....	15
Exhibit/Poster Floor Plan	16
Exhibit/Sponsor Listing.....	17
Meeting Facilities Map	23
Schedule of Events	24
Workshops and Field Trips	28
Program At A Glance	29
List of Authors and Abstract Titles in Chronological Session Order	31
Save the Date for SVP 2017	Back Cover



I am pleased to support the SVP, and pledge \$_____ per year for a period of _____ years.

I choose to have my donation applied to:

- ☐ The Legacy League Fund
- ☐ The Marvin and Beth Hix Preparators' Grant Fund
- ☐ The Jackson School of Geosciences Student Member Travel Grants
- ☐ The Cohen Fund
- ☐ The Patterson Memorial Grant Fund
- ☐ The Skinner Award Fund
- ☐ The Romer Prize Fund
- ☐ The Estes Memorial Grant Fund
- ☐ The Lanzendorf PaleoArt Prize Fund
- ☐ The Albert E. Wood Award
- ☐ The Colbert Fund
- ☐ The Dawson Fund
- ☐ Scientists for Economically Developing Nations (SEDN) Fund

Printed Name

Signature of Agreement

Date

_____ I am enclosing a check for my *initial* pledge amount today with this form.

_____ I will send in my pledge amounts by mail (the *initial* amount before the end of the year).

_____ Please charge my credit card for my *initial* pledge amount as follows:

Card Type: Circle one AMEX VISA MasterCard Discover

Card Number: _____

Expiration Date: _____

Please give this pledge form to a staff person in the annual meeting registration area, or mail it to the SVP at the address below. You may include your donation or send it at a later time. SVP will send a reminder if your donation is not received by the end of the current year.

Thank you for supporting your Society.

John Long, President
Greg Wilson, Development Chair
Society of Vertebrate Paleontology
9650 Rockville Pike
Bethesda, MD 20814

General Information

All meeting activities will be held at the Grand America Hotel, located at 555 Main Street, unless noted otherwise.

Registration Desk

Grand Ballroom Offices

Tel: (801)258-6405

Tuesday, October 25	3:00 pm – 7:00 pm
Wednesday, October 26	7:00 am – 7:30 pm
Thursday, October 27	7:00 am – 6:15 pm
Friday, October 28	7:00 am – 5:00 pm
Saturday, October 29	7:00 am – 4:00 pm

Annual Meeting Merchandise

Grand Ballroom Offices

Wednesday, October 26	10:00 am – 7:30 pm
Thursday, October 27	7:00 am – 6:15 pm
Friday, October 28	7:00 am – 5:00 pm
Saturday, October 29	7:00 am – 4:00 pm

Visit the Registration Desk to purchase SVP Meeting t-shirts, lapel pins, water bottle, patch, and limited edition of letterpress print. If you pre-ordered Meeting Merchandise, you may pick it up on-site at the Registration Desk, starting Tuesday, October 25. Find additional SVP-branded items at Café Press: www.cafepress.com/vertpaleo.

Exhibits

Exhibit Hall, Grand Ballroom

Wednesday, October 26	9:30 am – 6:15 pm
Thursday, October 27	9:30 am – 6:15 pm
Friday, October 28	9:30 am – 6:15 pm
Saturday, October 29	9:30 am – 6:15 pm

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

Posters

Exhibit Hall, Grand Ballroom

Wednesday, October 26

7:30 AM - 9:30 AM	Authors from Poster Session I to set up posters
9:30 AM - 6:15 PM	Exhibits/Posters Open
4:15 PM - 6:15 PM	Poster Session I
6:15 PM - 6:45 PM	Poster Session I remove posters

Thursday, October 27

7:30 AM - 9:30 AM	Authors from Poster Session II to set up posters
9:30 AM - 6:15 PM	Exhibits/Posters Open
4:15 PM - 6:15 PM	Poster Session II
6:15 PM - 6:45 PM	Poster Session II remove posters

Friday, October 28

7:30 AM - 9:30 AM	Authors from Poster Session III to set up posters
9:30 AM - 6:15 PM	Exhibits/Posters Open
4:15 PM - 6:15 PM	Poster Session III
6:15 PM - 6:45 PM	Poster Session III remove posters

Saturday, October 29

7:30 AM - 9:30 AM	Authors from Poster Session IV to set up posters
9:30 AM - 6:15 PM	Exhibits/Posters Open
4:15 PM - 6:15 PM	Poster Session IV
6:15 PM - 6:30 PM	Poster Session IV remove posters

Speaker Ready Room

Envoy

Please note that speakers are required to check in at the Speaker Ready Room the day prior to their scheduled session so the speaker ready room technician can load presentations on computers in advance of the session. It is imperative that speakers follow this request in order to eliminate schedule delays.

Tuesday, October 25	9:00 am – 7:00 pm
Wednesday, October 26	7:00 am – 4:00 pm
Thursday, October 27	7:00 am – 4:00 pm
Friday, October 28	7:00 am – 4:00 pm
Saturday, October 29	7:00 am – 4:00 pm

Auction Item Drop Off

Wyoming, Little American Hotel, 500 Main Street (next to Grand America Hotel)

Wednesday, October 26	10:00 am – 6:00 pm
Thursday, October 27	8:00 am – 6:00 pm
Friday, October 28	8:00 am – 12:00 pm

Please be sure to drop off your donations for the Auction by 12:00 pm on Friday, October 28th!

Business Center

A business center is available at the Grand America Hotel. Please visit the business center for your copy/fax/shipping needs. Please check hours of operation with the center.

Phone: (801) 258-6542

Fax: (801) 258-6911

Email: businesscntr@grandamerica.com

Child Care/Family Room

Hermitage

A 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. For information regarding babysitting services, please check with the concierge desk at the Grand America Hotel. Parents and guardians are required to perform their own reference checks and arrange child care independently. SVP/FASEB are not responsible for child care or the quality of care provided

Coffee Breaks

Exhibit Hall, Grand Ballroom

Wednesday, October 26	10:00 am – 10:15 am
Thursday, October 27	10:00 am – 10:15 am
Friday, October 28	10:00 am – 10:15 am
Saturday, October 29	10:00 am – 10:15 am

First Aid

In case of medical emergency, dial “0” from any house phone and ask for Security or (801)258-6986 from a cell phone for assistance.

The Alfred Sherwood Romer Prize Session

Hear from new voices in paleontology on Thursday, October 27, from 8:00 am to 12:15 pm in Imperial Ballroom AB. 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 #B165-187, Saturday, October 29*)

Learn from your colleagues’ education outreach successes by visiting the Education & Outreach posters located in the Exhibit Hall, Grand Ballroom. Authors will be present at their posters on Saturday, October 29, from 4:15 pm – 6:15 pm.

Edwin H. and Margaret M. Colbert Prize Poster Session (*Board #B1-50*)

View the posters from which the 2016 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 Exhibit Hall, Grand Ballroom. Authors will be present at their posters on Thursday, October 27, 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 #IB1-IB7, Thursday, October 27*)

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 27, from 8:00 am – 12:15 pm in Imperial Ballroom CD. The poster presentation of this session will take place on Thursday, October 27, from 4:15 pm – 6:15 pm, in Imperial Ballroom Foyer.

Program and Abstract Book

Printed copies of the SVP Program and Abstract Book are not available on-site. You can purchase a printed copy for your collection through a link on the SVP website at <http://www.lulu.com/shop/society-of-vertebrate-paleontology/svp-2016-program-and-abstracts/paperback/product-22874665.html>. You may also download a free PDF copy at <http://vertpaleo.org/Annual-Meeting/Annual-Meeting-home.aspx>.

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 76th 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

Wi-Fi will be accessible Wednesday, October 26 – Saturday, October 29 in all meeting space and committee meeting rooms. The network is **paleontology** and password is **2016svpslc**.

SVP on Twitter

Follow SVP and comment about the Annual Meeting using hashtag **#2016SVP**. Please follow the following social media guidelines before you tweet (or blog, or Facebook, or Instagram...)

The Society of Vertebrate Paleontology encourages open discussion on social media and other outlets at our annual meeting. In order to find a balance between embracing social media and protecting authors' work, we set forth the following guidelines:

- SVP has an embargo in place on discussing presentations until the beginning of the talk or poster session. Please do not discuss presentations until this time if you do not have the authors' permission to do so.
- This embargo exists to protect the authors. As an author, you have permission to break your own embargo or permit someone else to do the same. This includes discussing your own presentation online, posting slides or posters, etc. However, to protect yourself, make sure you are aware of any potential future publisher's policies about early dissemination of work.
- Do not photograph or videotape a talk or poster without the authors' express permission. Never post any images or video without the authors' permission.
- While the default assumption is to allow open discussion of SVP presentations on social media, please respect any request by an author to not disseminate the contents of their talk. The following icon may be downloaded from the SVP website for inclusion on slides or posters to clearly express when an author does not want their results posted:



We want to thank everyone for following these basic guidelines for online posts of all kinds. As a reminder, the official hashtag of the meeting is #2016SVP. We look forward to seeing your thoughts and discussion online!

Professional Conduct, Collegiality, and Harassment

Presenters, exhibitors, staff, members and other attendees at Society events should strive to create a professional, collegial, harassment-free environment that is welcoming to all. Conference attendees are expected to behave in a courteous, professional, and civilized manner and to respect volunteers, SVP staff, convention center/hotel staff, and one another. Conduct that is unprofessional, offensive, or harassing should be avoided in both personal and electronic interactions at all Society events, whether formal or informal.

Harassment is any action that has the purpose or effect of unreasonably interfering with an individual's professional standing or that creates an intimidating, hostile, or offensive environment. Harassment includes verbal or visual comments that reinforce social structures of domination related to gender, gender identity and expression, sexual orientation, disability, physical appearance, race, and age; sexualized, derogatory, or demeaning images and slogans in presentations, on clothing, or in public spaces; deliberate intimidation or haranguing; stalking and following; invasive photography or recording; sustained disruption of talks or other events; inappropriate physical contact; and unwelcome sexual attention.

Collegiality is the expectation that professional, rational, and mutually respectful lines of discourse be constructively maintained. Collegiality includes civility in discourse and mutual respect for differences in background, expertise, and points of views. Collegiality does not imply agreement on scientific, social, or personal issues. Society events are venues in which professional, sometimes heated debate is expected and encouraged. Collegial disagreements such as "John Doe is wrong because..." are appropriate, whereas an attack such as "Jane Doe is a fool" is unprofessional. New participants who lack the depth of

knowledge of a seasoned researcher in the field – students, hobbyists, artists, or researchers from other disciplines – may benefit more from simple constructive suggestions rather than prolonged debate, but nevertheless, participants at all levels should be prepared to defend their work and to respond constructively to criticism from their peers. Collegiality includes respect for the intellectual property of others: photographs, recordings, or other reproductions of material in talks, slides, posters, or artwork should not be disseminated without permission of the author.

To report unprofessional, offensive, or harassing conduct encountered at Society events, contact the Society's Ethics Committee. All attendees are expected to cooperate in any inquiry regarding, and resolution of, alleged misconduct. Sanctions for persons found to have violated this policy may include a verbal warning, expulsion from an event without refund, prohibition on attending certain future events, or in especially egregious cases, loss of membership from the Society.

Non-Discrimination Policy

The Society does not and shall not discriminate on the bases of race, color, gender, national origin, age, religion, creed, disability, veteran's status, sexual orientation, gender identity or gender expression in any of its activities or operations. These activities include, but are not limited to, approval of membership, nomination for committee service or officer election, receipt of Society awards, hiring and firing of staff, selection of volunteers and vendors, and provision of services. We are committed to providing an inclusive and welcoming environment for all members. Members are expected to uphold the society's value of non-discrimination in conference spaces.

Code of Conduct

The Society of Vertebrate Paleontology (SVP) is dedicated to providing a courteous, professional, harassment-free conference experience for everyone, regardless of gender, gender identity and expression, sexual orientation, disability, physical appearance, race, or age. Abusive, harassing, or threatening behavior is not permitted. Personal and electronic interactions should be professional, rational, and mutually respectful at all conference events, both formal and informal. Intellectual property should be respected by not disseminating photographs, recordings, or other reproductions of presentations or artwork without permission of the author. For more information, please see SVP's policies on professional conduct, harassment, and non-discrimination in the Member's Handbook at <http://vertpaleo.org/The-Society/Governance-Documents.aspx>.

Concerns may be raised with a member of the Ethics Committee: David Polly (pdpolly@indiana.edu), Anjali Goswami (a.goswami@ucl.ac.uk), or Cathy Forster (forster@gwu.edu). Help locating the officers may be obtained from the SVP Registration Desk or the student-postdoc liaison, Jack Tseng (tsengzhijie@gmail.com). Conference participants found to have violated these policies may be subject to sanction, up to and including being expelled from the conference without a refund, as determined by SVP.

Program and Abstracts Book Updates

Saturday Poster Session IV
B102

Testing the paleobiogeographical history of Mesoeucrocodylia (Crocodylomorpha; Crocodyliformes) using RASP (Reconstruction Ancestral State in Phylogeny) software

Author affiliation correction: GEROTO, Caio F., UNESP, Rio Claro, Brazil.

Special Events

Women in Science Social

Tuesday, October 25, 2016

4:00 pm – 6:00 pm

Grand America Hotel, Grand Ballroom A

The 2016 SVP Women in Science Social will provide an opportunity for Female-Identifying SVP members, and their supporters, to become familiar with the research and experiences of other members of this underrepresented group. Please join us for this free event, where we will discuss the history of women in paleontology, and the state of the field today, followed by an hour of networking with encouraging and productive group discussions on a variety of topics.

Tuesday Evening Public Lecture Speaker: Dr. Ann Reid, Executive Director of the National Center for Science Education

Tuesday, October 25, 2016

7:00 pm – 9:00 pm

Grand America Hotel, Imperial Ballroom CD

It's time for science class! What are our children learning?

The American science classroom is not always a neutral zone. Millions of students are at risk of being miseducated on the critical topics of evolution and climate change because these areas of science have been relentlessly misrepresented as scientifically controversial or unsettled. The drumbeat of doubt and confusion, unfortunately, echoes in our classrooms, where evolution and climate change are too often getting short shrift. Ann Reid will discuss why so many teachers are reluctant to teach these topics, and what can be done to give them the confidence and support they need to teach evolution and climate change honestly, accurately, and completely.

Welcome Reception

Wednesday, October 26, 2016

7:30 pm – 10:30 pm

Natural History Museum of Utah

Attendees must wear their badge to be admitted to the Welcome Reception. Transportation will be provided from the Grand America Hotel (at 600 South Porte Cochere) to the Natural History Museum of Utah starting at 6:30 pm. Buses will depart approximately every 20 minutes on a continuous loop between the Grand America Hotel and the Natural History Museum of Utah. The last pick up from the Museum will be at 11:00 pm. Please note that transportation cannot be guaranteed and is based on seat availability.

SVP Business Meeting and Open Forum

Thursday, October 27, 2016

12:30 pm – 1:30 pm

Grand America Hotel, Imperial Ballroom AB

An opportunity to bring your questions to SVP leadership.

iDigBio: An Initiative to Make Millions of Paleontological Specimens Available in an Electronic Format

Thursday, October 27, 2016

6:30 PM – 7:30 PM

Grand America Hotel, Grand Ballroom A

What can iDigBio do for your museum collections and research? This presentation, in a town-hall format, will provide an opportunity for paleontologists and interested public to learn about the Integrated Digitized Biocollections (iDigBio), which is currently a hub of the larger Advancing the Digitization of Biodiversity Collections (ADBC) program of the National Science Foundation.

Organizational Meeting for Register of Professional Paleontologists

Thursday, October 27, 2016

7:30 PM – 9:30 PM

Grand America Hotel, Imperial Ballroom CD

Student and Postdoc Roundtable and Reprint Exchange

Presented by the Student and Post-Doc Liaison Committee

Thursday, October 27, 2016

7:30 pm – 11:30 pm

Grand America Hotel, Imperial Ballroom AB

Are you a student or post-doc with questions about being a Paleontologist? Do you need networking or career advice? Come to the Student and Postdoc Roundtable and Reprint exchange! During the informal roundtable students can network and receive advice from experts and leaders in the field of Paleontology. Table topics include getting into grad school and career advice for teaching at a university or medical school, and the government. There will also be tables on collections management, scientific photography, scientific illustration, and much more!

The Student and Postdoc Reprint Exchange is a chance for you to build your library, free of charge. Recent reprints on all areas of vertebrate paleontology will be available through the generous donations of SVP members.

Student and Post-Doc Membership Raffle

For just one dollar, you can purchase a raffle ticket to win a FREE 2017 SVP Student or partial Post-Doc Membership!

Everyone is encouraged to buy tickets. You may donate the ticket to any student or post-doc member or ask the committee to pass them out to eligible attendees. All proceeds from the raffle will benefit the Stephen Cohen Award for Student Research.

Purchase your tickets at the Student and Post-doc Liaison Committee table in the Grand Ballroom Foyer or at the event on Thursday, October 27, or look for raffle ticket sellers wearing “Wanna Buy a Raffle Ticket?” buttons throughout the day on Wednesday, October 26, and Thursday, October 27.

34th Annual Benefit Auction and Social

Friday, October 28, 2016

6:30 pm – 11:30 pm

Little America Hotel, Grand Ballroom

Auction items must be dropped off at Wyoming room by 12:00 pm on Friday, October 28, 2016.

Wyoming will be open from 10:00 am – 6:00 pm Wednesday, October 26; 8:00 am – 6:00 pm Thursday, October 27; and 8:00 am – 12:00 pm Friday, October 28 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.

A minimum bid of \$5 is required, with bids increasing by \$1 increments.

Need help shipping your auction items home?**Business Center in the Grand America Hotel**

555 South Main Street

Salt Lake City, UT 84111

Phone: (801) 258-6542

Fax: (801) 258-6911

Email: businesscntr@grandamerica.com

Saturday Hours: 8:00 am – 5:00 pm

Awards Banquet

Saturday, October 29, 2016

7:30 pm – 10:00 pm

Grand America Hotel, Imperial Ballroom

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 27.

Additional tickets can be purchased at the Registration Desk (Adults - \$75 USD, Children under 12 years of age - \$35 USD) if space is available. If you have any special dietary needs, please stop by the SVP Registration Desk by 12:00 pm on Thursday, October 27 to inform staff. SVP staff will try to accommodate dietary requests when possible.

After Hours Party

Saturday, October 29, 2016

10:00 pm – 1:00 am

Little America Hotel, Grand Ballroom

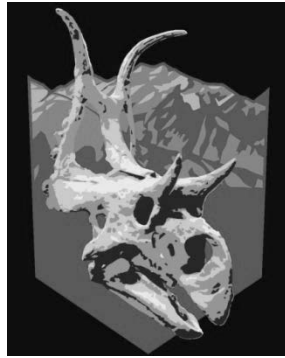
Exchange notes, name tags, and goodbyes while celebrating the conclusion of a great week. A cash bar will be provided.

Committee Meetings

**SVP 2016 Committee Meetings at the Grand America Hotel
BY INVITATION ONLY UNLESS NOTED OTHERWISE**

<i>Tuesday October 25</i>	<i>Wednesday October 26</i>	<i>Thursday October 27</i>	<i>Friday October 28</i>	<i>Saturday October 29</i>
SAVOY ROOM 4:00 PM – 7:00 PM Executive Committee Meeting		SAVOY ROOM 2:00 PM – 3:30 PM Preparators Meeting		
	MILANO ROOM 12:30 PM – 2:30 PM Publications Committee Meeting/JVP Production 4:30 PM – 5:30 PM Archives Committee Meeting	MILANO ROOM 1:30 PM – 2:30 PM Education and Outreach Committee (E&O) Meeting 4:30 PM – 5:30 PM 2016/2017 Host Committee Meeting 5:30 PM – 6:30 PM Colbert Prize Panel II	MILANO ROOM 11:00 AM – 12:30 PM Membership Committee Meeting	
	VENEZIA ROOM 12:30 PM – 3:00 PM Government Affairs Committee Meeting 3:00 PM – 5:00 PM Federal Paleontology (Paleocrat) Meeting	VENEZIA ROOM 8:00 AM – 9:00 AM JVP Editorial Board Meeting 3:00 PM – 4:30 PM Communications Committee Meeting	VENEZIA ROOM 12:30 PM – 2:30 PM Program Committee Meeting	VENEZIA ROOM 7:00 AM – 8:00 AM EC/Pub & Media 12:00 PM – 1:00 PM EC/Annual Meeting 1:00 PM – 2:00 PM EC/Prof & Edu 4:00 PM – 5:00 PM EC/Operations
	AUDUBON ROOM 12:30 PM – 1:30 PM Student/Post-Doc Liaison Committee Meeting 2:00 PM – 3:00 PM Development Committee Meeting	AUDUBON ROOM 12:00 PM – 1:30 PM Colbert Prize Panel I 1:30 PM – 3:30 PM Romer Prize Panel	AUDUBON ROOM 4:30 PM – 5:30 PM Awards Committee Meeting	AUDUBON ROOM 5:30 PM – 6:30 PM Lanzendorf Panel Meeting
		IMPERIAL BALLROOM AB 12:30 PM – 1:30 PM SVP Business Meeting and Open Forum OPEN TO ALL		

SVP 34th Annual Benefit Auction and Social



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

When: Friday, October 28, 2016

Where: Little America Hotel , Grand Ballroom

Schedule of Events:

6:30 pm	Start of Silent Auction
8:30 pm	End of Silent Auction
9:00 pm	Start of Live Auction
11:30 pm	End of Live Auction

Cash bar will be provided.

*A minimum bid of \$5 is required, with bids increasing by \$1 increments. Cash, Visa, MasterCard and American Express accepted. Credit card purchases will require a minimum charge of \$10 or higher.

Auction items must be dropped off at the Wyoming Room by 12:00 pm on Friday, October 28, 2016. Wyoming Room will be open from 10:00 am – 6:00 pm Wednesday, October 26 and from 8:00 – 6:00 pm Thursday, October 27, and Friday, October 28, from 8:00 am – 12:00 pm, for auction material drop off.

Auction proceeds will benefit the Legacy League of Funds

Call for Workshop and Field Trip Proposals

The Host Committee for the SVP 77th Annual Meeting, August 23–26, 2017 at the Calgary TELUS Convention Centre, Calgary, Canada, co-hosted by the University of Calgary, University of Alberta, the Royal Tyrell Museum, and the Meetings + Conventions Calgary, is calling for field trip and workshop 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: 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) and include an additional \$5 per person to cover credit card and administrative costs. These costs should consider all the expenses you plan to submit for reimbursement. NOTE: 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 person administrative fee. Field trip and workshop leaders should send completed reimbursement forms and receipts to the business office after the meeting. Excess revenue generated from registration fees will not be returned to attendees or provided to leaders. Excess funds, if any, remain with SVP and are utilized to support the annual meeting.
- 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.

Advertisement copy for the 2017 SVP meeting circular and website 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 should be sent to Jason Anderson, SVP17-Calgary Host Committee Co-Chair, at janders@ucalgary.ca. The deadline for proposal submission is November 14, 2016.

Call for Symposium Proposals

Call for Symposium Proposals

The Program Committee for the SVP 77th Annual Meeting, August 23–26, 2017 at the Calgary TELUS Convention Centre, Calgary, Canada, co-hosted by the University of Calgary, University of Alberta, the Royal Tyrell Museum, and the Meetings + Conventions Calgary, is calling for symposium proposals in two categories: Podium Symposia and Poster Symposia.

Proposals for SVP Symposia should include:

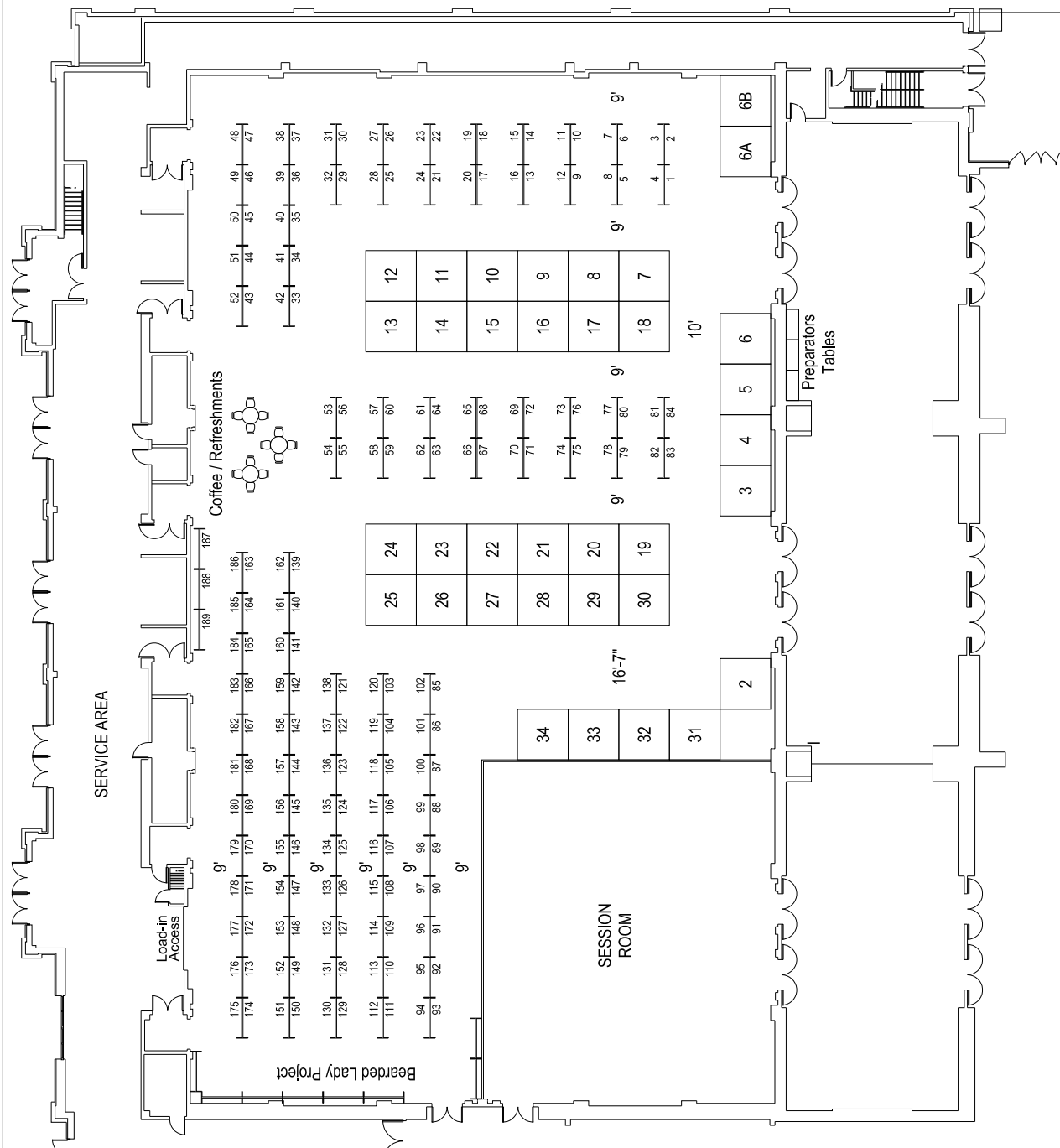
- i. A concise summary and discussion of the symposium topic. In particular, the unifying research themes underlying the symposium should be clearly elucidated, and tied explicitly to the list of planned speakers. It should also be clear from this discussion why the symposium format is necessary and beneficial to the proposed topic. Symposia are intended to unify work that would not normally be exhibited together (e.g., presentations on the same time period or from the same locality/geological unit but about different taxonomic groups; projects that use related analytical methods but on different types of animals, etc.). If appropriate, specific relevance to the meeting's timing or location should be noted.
- ii. **For podium symposia:** A list of speakers and preliminary titles. Symposia are two hours, two and a half hours or four hours in duration and must include either 8, 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 associated poster presentations are also welcome.

For poster symposia: A list of authors and preliminary titles. A minimum of 10 titles are required for a given submission to be considered. Because of the flexible nature of poster symposia, it will be possible to add additional titles to the symposium when abstracts are submitted.
- iii. A summary of demographic data for confirmed presenters that provides information on a) gender, and b) career stage. Although there are no specific requirements, diversity is encouraged and is a criterion that can be considered by the Program Committee in its deliberations.

Proposals, including both the written proposal and the list of speakers and titles, should not exceed two single-spaced pages in length. As for abstracts submitted to the regular 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.

Sample Podium Symposia text can be viewed at <http://vertpaleo.org/Annual-Meeting/Circular/14879-SVP-2016-Circular-WEB-7-8-2016.aspx>.

Please send proposals to SVP Program co-chairs: David Evans at d.evans@utoronto.ca and Mary Silcox at msilcox@utsc.utoronto.ca. The deadline for proposal submission for SVP Podium and Poster Symposia is **November 14, 2016**. Acceptance of a Podium or Poster Symposia proposal does not guarantee acceptance of all included abstracts. As for the technical sessions, all abstracts submitted for the symposia are rigorously reviewed by the Program Committee and subject to rejection.



Exhibitor/Sponsor Listing

Visit the Exhibits – Wednesday, October 26 – Saturday, October 29

Grand Ballroom

9:30 AM – 6:15 PM

* SVP Meeting Sponsor

Disclaimer

Participation in the Exhibits Program does not constitute an endorsement by the Society of Vertebrate Paleontology (SVP) of the claims, products or services offered.

Note: All sales of fossils are prohibited at the SVP Annual Meeting. Casts are acceptable.

Bergman Books

Booths 3,4,5,6

211 W 85th Street

New York, NY 10024

Phone: 212-724-3777

Fax: 212-724-3777

Email: dvbergman@aol.com

David Bergman buys and sells used and antiquarian books on paleontology and natural history.

Cambridge University Press

Booth 6A

One Liberty Plaza, Broadway

New York, NY 10006

Phone: 212-337-5000

Web: www.cambridge.org/academic

Cambridge University Press dates from 1534 and is part of the University of Cambridge. Our mission is to unlock people's potential with the best learning and research solutions by combining state-of-the-art content with the highest standards of scholarship, writing and production. Visit our stand for 20% off all titles on display.

Carter County Museum

Booth 18

306 North Main Street

Ekalaka, MN 59324

Phone: 406-775-6886

Email: kjohnson@cartercountymuseum.org

Web: www.cartercountymuseum.org

The Carter County Museum will exhibit a selection of fossils from our paleontological collections as well as information about the Dino Shindig where paleontologists from all over the world come to Ekalaka, Montana and present on their work in the field. CCM apparel will be available for sale as well.

Cliff Green Studio

Booth 31

628 Aspen Circle

Price, UT 84501

Phone: 435-650-5172

Email: dinonaut66@gmail.com

Cliff Green Studios has provided cutting edge paleontological sculptures and exhibit designs to museums, film studios, and private collectors, for over twenty five years. CG Studios also offers free estimates on any potential commissions.

Columbia University Press

Booth 8

61 West 62nd Street

New York, NY 10023

Phone: 212-459-0600

Email: cb2954@columbia.edu

Web: www.cup.columbia.edu

Columbia University Press is a leading publisher of scholarly and trade books in the humanities, social sciences, and sciences.

Dino-Lite Scopes (BigC)

Booth 19

19803 Hamilton Avenue, Suite 200
Torrance, CA 90502
Phone: 310-618-9990
Fax: 877-978-2787
Email: sales@dinolite.us
Web: www.dinolite.us

Dino-Lite digital microscopes for inspection, research, documentation. Most models provide 10x-220x magnification. The DinoCapture software includes ability to capture images and videos, measure, and share discoveries. Edge series units contain an enhanced sensor for improved image quality. New features include Extended Depth of Field (EDOF) and Automatic Magnification Reading (AMR).

Gaston Design Inc.

Booth 33

1943 K Road
Fruita, CO 81521
Phone: 970-858-4785
Email: gastondesigninc@gmail.com

Michael Holland Production

Booth 27

825 S. Grand Avenue
Bozeman, MT 59715
Phone: 406-587-1815
Email: michaelholland@mail.com
Web: www.michaelhollandproductions.com

Michael Holland Productions is a creative content studio offering fossil reconstruction, sculptural restoration, specimen mounting, molding/casting, design, installation, and more. We bring world class exhibit features to all museums, from large urban institutions to small regional venues. Visit us to learn about our innovative traveling exhibition currently in development!

Idaho Virtualization Lab

Booth 15

921 S 8th Avenue, Stop 8096
Pocatello, ID 83209
Phone: 208-282-5420
Fax: 208-282-5893
Email: ivl@isu.edu
Web: www.ivl.imnh.isu.edu

Since 2003 our 3D lab has specialized in laser and structured light scanning as well as photogrammetry data capture. We provide anatomical skeletal layouts, retro-deformation and restoration of damaged specimens, life model reconstructions, animations, simulations, 3D printing services, database consultation, collections archiving, exhibit design and app development.

Indiana University Press

Booth 7

1320 E 10th Street
Herman Wells 350
Bloomington, IN 47405
Phone: 812-855-4901
Email: johdecke@indiana.edu
Web: www.iupress.indiana.edu

Indiana University Press is a leading academic publisher in paleontology. Our books are written by experts or groups of experts in the field, many as part of our distinguished "Life of the Past" series. New and backlist titles will be available at a 30% discount at our exhibit booth.

Johns Hopkins University Press

Booth 12

2715 North Charles Street
Baltimore, MD 21218
Phone: 410-516-6951
Web: www.press.jhu.edu

Johns Hopkins University Press combines traditional books and journals publishing units with cutting-edge service divisions that sustain diversity and independence among nonprofit, scholarly publishers, societies, and associations. With critically acclaimed titles in history, science, higher education, humanities, consumer and public health, the Books Division publishes 150 new books each year.

****Lane Science Equipment Corp.***

225 West 34th Street, Suite 1412
New York, NY 10122
Phone: 212-563-0663
Email: nz@lanescience.com
Web: www.lanescience.com

National Geographic Society

Booth 16

1145 17th Street NW
Washington, DC 20036
Phone: 202-857-7797
Email: mpiscitelli@ngs.org
Web: www.nationalgeographic.com

The National Geographic Society has been supporting science, conservation, and storytelling for over 125 years to explorers from around the world. In particular, we provide field research grants to students, post-docs, and faculty in numerous scientific fields including paleontology. We then seek to tell our grantees' stories to the world through our global media network. Since 1940, NGS has given over \$18 million to paleontologists and we are looking for new projects to fund.

****Nature Ecology & Evolution***

Web: www.nature.com/natecolevol/

Paleoartists

Booth 2

9 Mockingbird Hill Road
Tigas, NM 87059
Phone: 505-610-8531
Email: paleoartists@gmail.com
Web: www.paleoartists.com

Paleoartists offers high-quality paleo-themed t-shirts, sweatshirts, bumper stickers, and other material. Since 1994 our products have been rigorously tested by actual paleontologists in the field and the lab. In addition to our shirts we are a reseller of highly popular (and entertaining) books and games on dinosaurs and paleontology.

PaleoBOND

Booth 34

1067 E US Highway 24 #191
Woodland Park, CO 80863
Phone: 651-227-7000
Fax: 719-687-3026
Email: tracie@paleobond.com
Web: www.paleobond.com

PaleoBOND products were created specifically to aid in fossil collection, preparation and preservation. PaleoBOND's advanced adhesive technology has been field tested and approved by experts in the industry. Materials need to be

of the highest quality to ensure success. Quality isn't expensive. It's priceless. We're here to help. Call us!

Paleontology on Public Lands

Booth 9

20 M Street SE, Suite 2134
Washington, DC 20003
Phone: 202-912-7253
Email: sfoss@blm.gov
Web: www.blm.gov/paleontology

Paleontology on Public Lands supports and promotes the responsible management of paleontological resources using scientific principles and expertise. Meet federal paleontologists representing the Bureau of Land Management, National Park Service, and the U.S. Forest Service and learn about the issues that they deal with each day.

****PaleoTools®***

Booths 13,14

1006 W Hwy 13, Suite 4
Brigham City, UT 84302
Phone: 435-734-0148
Fax: 435-734-0151
Email: bill@paleotools.com
Web: www.paleotools.com

Hello Fossil Enthusiasts! We are happy to join you at SVP's 76th Annual Meeting. Many have heard of us, but for those of you that have not:

PaleoTools® produces and sells air tools for fossil and mineral preparation including the: Micro-Jack® series, Mighty-Jack™, Super-Jack™, PaleoARO, and ME-9100. Also sold include: styli, replacement parts, air-abrasion parts, hand-tools and needles. We repair tools. Please pickup a catalog and see what's new.

Pangaea Designs

Booth 6B

1750 S. Holly Street
Denver, CO 80222
Phone: 303-477-9058
Email: dennis@pangaeadesigns.com
Web: www.pangaeadesigns.com

Pangaea Designs is internationally known as a producer of high quality exhibits for Museums, Zoos, Aquaria and Visitor Centers. For over 20 years, owner Dennis J. Wilson, trained at the

American Museum of Natural History, offers fossil preparations, mounts, fossil and life reconstructions, which stem from his passion for combining Art and Science.

***Permia**

Booth 25

Web: www.permia.com

Permia is a fashion brand with a mission to deliver art through apparel, with a prehistoric theme. We view our finely crafted garments and accessories as collectible, to be treasured and worn proudly by our customers - the perfect fusion of ancient life with modern style!

***PLOS**

Booth 30

1160 Battery Street, Suite 100
San Francisco, CA 94111
Phone: 415-624-1200
Fax: 415-546-4090
Email: plos@plos.org
Web: www.plos.org

PLOS (Public Library of Science) is a nonprofit Open Access publisher, innovator and advocacy organization dedicated to accelerating progress in science and medicine by leading a transformation in research communication. The PLOS suite of influential journals contain rigorously peer-reviewed Open Access research articles from all areas of science and medicine.

PREPARATOR'S TABLE

Location: Foyer Area of Grand Ballroom

Contact: Vanessa R. Rhue
Email: vrhue@nhm.org
Contact: Matthew Miller
Email: millermta@si.edu

The Preparators' Table is a dedicated space for persons interested in the advancement of vertebrate fossil preparation, conservation, and collections management. The area is staffed by preparators and collections professionals daily throughout the meetings - especially during the after 12:00 pm poster sessions. We strongly welcome society participation at the Preparators' Table. Please consider bringing your prep related questions, a slide show of your current projects, a case study pamphlet, a copy of your training curricula, samples of

archival materials, or other prep related resources for show and tell at the table - there is plenty of space for you to share a new method or technique! Additional information about the SVP Preparator's Grant and other preparation related resources will be on display. If you are interested in volunteering at the table or would like to offer a demonstration, please contact Vanessa Rhue or Mathew Miller. We hope to see you there!

***Research Casting International**

Booths 10,11

15 Dufferin Avenue
Trenton, ON K8V 5C8
Canada
Phone: 613-394-7007
Fax: 613-394-3431
Email: bmcinroy@rescast.com
Web: www.rescast.com

Research Casting International is a Canadian company specializing in molding and casting for the production of museum exhibits. For 29 years RCI has applied our expertise to molding and casting fossilized and recent bone, rock faces, trees, archeological finds, sculpture and architectural elements. Our services include large and small scale molding and casting, sculpting and painting, welding and machining, blacksmithing and bronze casting. Paleontological services include preparation and conservation, mounting skeletons with internal armatures or traditional blacksmith external armatures and paleontological reconstruction.

Scientifiques

Booth 29

PO Box 444
Jensen, UT 84035
Phone: 801-707-5371
Email: rain@easilink.com

Scientifiques is a company producing science based, handmade jewelry, art and sculptures, with an emphasis on paleontology and geology. We make earrings, bracelets, necklaces, and cuffs, as well as fossil sculptures. Our themes also include mathematics, chemistry, and quantum physics. Because they are handmade, each piece is unique.

Skulls Unlimited International, Inc.

Booth 20

10313 S. Sunnyslane Road
Oklahoma City, OK 73160
Phone: 405-794-9300
Fax: 405-794-6985
Email: sales@skullsunlimited.com
Web: www.skullsunlimited.com

Skulls Unlimited International, Inc. is the World's leading supplier of osteological specimens, providing the finest quality and widest selection of natural bone and replica skulls and skeletons for nearly 30 years. With over 500 osteological products to choose from, Skulls Unlimited is sure to have what you are looking for. For skeletal preparation and custom articulations, Skulls Unlimited continues to be the preferred choice of museums, universities, nature centers and zoos. Trained technicians will expertly clean and assemble your skeletons for exhibits and displays. Our meticulous craftsmanship and research provides interesting, accurate poses that clearly illustrate the uniqueness of each species. It is our goal to serve all your osteological needs.

STARBOND

Booth 21

611 S. Catalian Street, 400AB
Los Angeles, CA 90005
Phone: 800-900-4583
Fax: 213-386-5241
Email: cph@starbond.com
Web: www.starbond.com

STUDIO 2138 LLC

Booth 26

2138 Buffalo Drive
Grand Junction, CO 81507
Phone: 907-903-9093
Email: adelgalvis@charter.net
Web: www.thelosttracks.com

Studio 2138 LLC is publisher of "The Lost Tracks a Journey of Discovery". Lavishly illustrated, the book chronicles the discovery and documentation of early Jurassic track sites in the Glen Canyon Group of Southern Utah. Paleontologists have described it as a wonderful blend of Art, Science and History with spectacular images of tracks.

Taylor & Francis

Booth 28

530 Walnut Street, Suite 850
Philadelphia, PA 19106
Phone: 215-625-8900
Fax: 215-606-0050
Email: customerservice@taylorandfrancis.com
Web: www.tandfonline.com

For two centuries, Taylor & Francis has been fully committed to the publication of scholarly research. We are the publisher of the *Journal of Vertebrate Paleontology*, the Society of Vertebrate Paleontology's official journal, and similar titles. Visit the Taylor & Francis booth to learn about our products and services, and for free sample copies.

Triceratops Cheyenne River Ranch

Booth 32

21331 Andalucia Lane
Huntington Beach, CA 92648
Phone: 714-960-5797
Email: jbsfc@aol.com

Triceratops Cheyenne River Ranch is one of the largest ranches of its kind, with thousands of acres of privately owned prime Cretaceous Dinosaur real estate located in Eastern Wyoming. Dinosaur digs are available.

Triebold Paleontology, Inc.

Booths 22,23,24

201 South Fairview Street
Woodland Park, CO 80863
Phone: 719-686-1820
Fax: 719-686-1399
Email: mike@triebouldpaleontology.com
Web: www.triebouldpaleontology.com

We provide everything from individual casts to mounted skeletons to complete exhibit packages for museums and universities across the globe and have been doing so for nearly 30 years, using both state of the art traditional methods and the latest 3D scanning and printing technologies.

YXLON

Booth 17

5675 Hudson Industrial Parkway

Hudson, OH 44236

Phone: 234-284-7849

Email: yxlon@yxlon.com

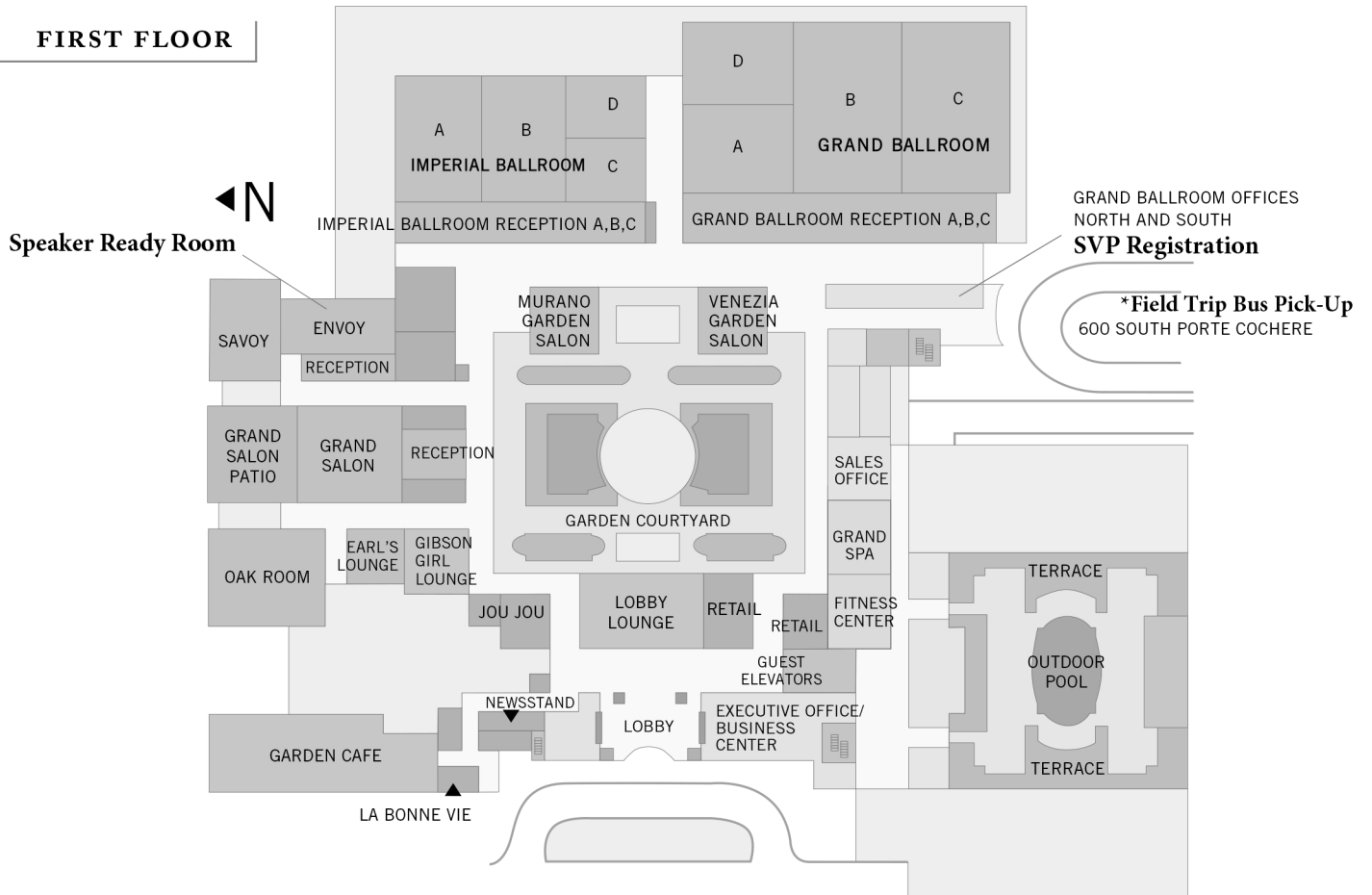
Web: www.yxlon.com

Worldwide, YXLON International is a leading provider of Computed Tomography (CT) and Digital Radiography (DR) X-ray inspection equipment for industrial applications. Our industrial CT solutions - using non-destructive, non-invasive testing methods at higher resolution compared to medical CT Scanners - are especially beneficial for 3D imaging of biospecimens. YXLON offers scanning services at multiple locations in the US.

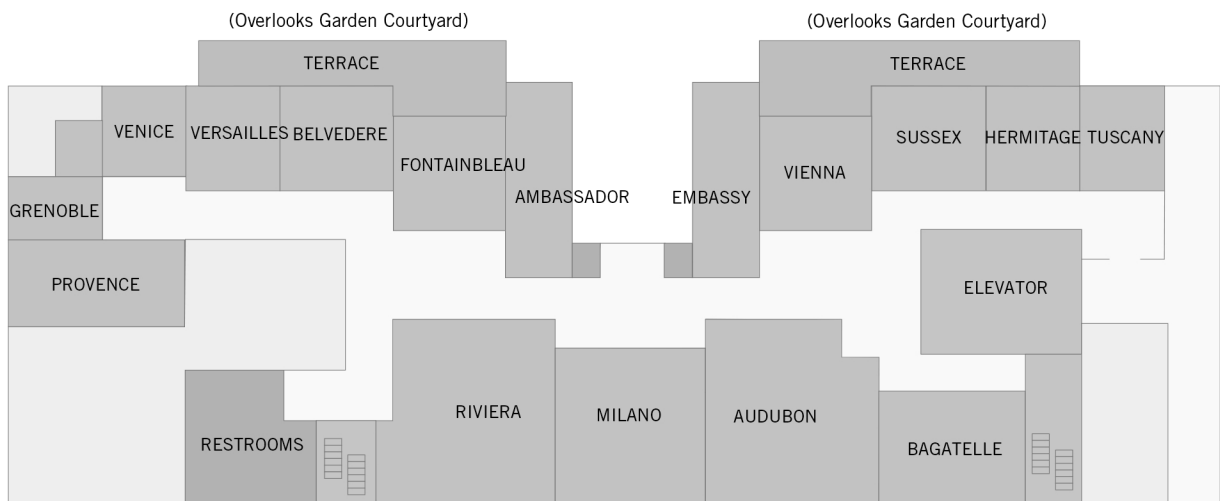
CONFERENCE FACILITIES

HOTEL MAP

FIRST FLOOR



THIRD FLOOR



2016 SVP Schedule of Events (subject to change)

All events are held at the Grand America Hotel unless otherwise noted with an **

Tuesday, October 25

3:00pm–7:00pm	Registration Open	Grand Ballroom Offices
4:00 pm–6:00 pm	Women in Science Social	Grand Ballroom A
7:00pm–9:00pm	Special Lecture by Ann Reid, Executive Director of the National Center for Science Education <i>It's time for science class! What are our children learning?</i>	Imperial Ballroom CD

Wednesday, October 26

7:00am–7:30pm	Registration Open	Grand Ballroom Offices
7:30am–9:30am	Poster Session I presenters to set up posters	Exhibit Hall, Grand Ballroom
8:00am–12:15pm	Podium Symposium I: Molecular Preservation in the Fossil Record: Evidence, Analyses, Applications, and Challenges	Imperial Ballroom AB
	Technical Session I	Imperial Ballroom CD
	Technical Session II	Grand Ballroom A
9:30am–6:15 pm	Exhibits and Posters Open for Viewing	Exhibit Hall, Grand Ballroom Imperial Ballroom Foyer
	Posters associated with Podium Symposium I “Molecular Preservation in the Fossil Record: Evidence, Analyses, Applications and Challenges” (IB1–IB2)	
	Colbert Prize Competition Posters (B1–B50) <i>*Colbert Prize posters will be on display Wednesday through Saturday.</i>	Exhibit Hall, Grand Ballroom
	Poster Symposium I “Advances in Middle Eocene Paleocology: Evolutionary and Ecological Dynamics in a Post-Greenhouse World” Posters (B51–B75) <i>*Poster Symposium I posters will be on display Wednesday and Thursday.</i> Regular Session Posters (B76–B181)	Exhibit Hall, Grand Ballroom
1:45pm–4:15pm	Technical Session III	Imperial Ballroom AB
	Technical Session IV	Imperial Ballroom CD
	Technical Session V	Grand Ballroom A
4:15pm–6:15pm	Poster Session I (Regular Session Posters, B76–B181) <i>*Poster Session I authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom
	Posters associated with Podium Symposium I “Molecular Preservation in the Fossil Record: Evidence, Analyses, Applications and Challenges” (IB1–IB2) <i>*Authors will be present at their posters.</i>	Imperial Ballroom Foyer

	Poster Symposium I: Advances in Middle Eocene Paleocology: Evolutionary and Ecological Dynamics in a Post-Greenhouse World (B51-B75) <i>*Authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom
6:15pm-6:45pm	Poster Session I presenters to remove posters	Exhibit Hall, Grand Ballroom
7:30pm-10:30pm	Welcome Reception	**Natural History Museum of Utah

Thursday, October 27

7:00am-6:15pm	Registration Open	Grand Ballroom Offices
7:30am-9:30am	Poster Session II presenters to set up posters	Exhibit Hall, Grand Ballroom
8:00am-12:15pm	Romer Prize Session	Imperial Ballroom AB
	Preparators' Session	Imperial Ballroom CD
	Technical Session VI	Grand Ballroom A
9:30am-6:15pm	Exhibits and Posters Open for Viewing	Exhibit Hall, Grand Ballroom
	Posters associated with Preparators' Session (IB1-IB7)	Imperial Ballroom Foyer
	Colbert Prize Competition Posters <i>*Colbert Prize posters (B1-B50) will be on display Wednesday through Saturday.</i>	Exhibit Hall, Grand Ballroom
	Poster Symposium I "Advances in Middle Eocene Paleocology: Evolutionary and Ecological Dynamics in a Post-Greenhouse World" Posters (B51-B75) <i>*Poster Symposium I posters will be on display Wednesday and Thursday.</i>	Exhibit Hall, Grand Ballroom
	Regular Session Posters (B76-B166)	
12:30pm-1:30pm	SVP Business Meeting and Open Forum An opportunity to bring your questions to SVP leadership!	Imperial Ballroom AB
1:45pm-4:15pm	Technical Session VII	Imperial Ballroom AB
	Technical Session VIII	Imperial Ballroom CD
	Technical Session IX	Grand Ballroom A
2:00pm-3:30pm	Preparators' Meeting	Savoy
4:15pm-6:15pm	Poster Session II (Regular Session Posters, B76-B166) <i>*Poster Session II authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom
	Posters associated with Preparators' Session (IB1-IB7) <i>*Authors will be present at their posters.</i>	Imperial Ballroom Foyer
	Colbert Prize Competition Posters (B1-B50) <i>*Authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom

6:15pm-6:45pm	Poster Session II presenters to remove posters	Exhibit Hall, Grand Ballroom
6:30pm-7:30pm	iDigBio: An Initiative to Make Millions of Paleontological Specimens Available in an Electronic Format	Grand Ballroom A
7:30pm-9:30pm	Organizational Meeting for Register of Professional Paleontologists	Imperial Ballroom CD
7:30pm-11:30pm	Student and Postdoc Roundtable and Reprint Exchange	Imperial Ballroom AB

Friday, October 28

7:00am-5:00pm	Registration Open	Grand Ballroom Offices
7:30am-9:30am	Poster Session III presenters to set up posters	Exhibit Hall, Grand Ballroom
8:00am-12:15pm	Podium Symposium II: Paleo Evo-Devo: The New Science of the Very Old	Imperial Ballroom AB
	Technical Session X	Imperial Ballroom CD
	Technical Session XI	Grand Ballroom A
9:30am-6:15pm	Exhibits and Posters Open for Viewing	Exhibit Hall, Grand Ballroom
	Colbert Prize Competition Posters <i>*Colbert Prize posters (B1-B50) will be on display Wednesday through Saturday.</i>	Exhibit Hall, Grand Ballroom
	Poster Symposium II "An Ecosystem We Thought We Knew: The Emerging Complexities of the Morrison Formation" Posters (B51-B69) <i>*Poster Symposium II posters will be on display Friday and Saturday.</i>	Exhibit Hall, Grand Ballroom
1:45pm-4:15pm	Regular Session Posters (B70-B167)	
	Technical Session XII	Imperial Ballroom AB
	Technical Session XIII	Imperial Ballroom CD
4:15pm-6:15pm	Technical Session XIV	Grand Ballroom A
	Poster Session III (Regular Session Posters, B70-B167) <i>*Poster Session III authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom
	Poster Symposium II: An Ecosystem We Thought We Knew: The Emerging Complexities of the Morrison Formation (B51-B69) <i>*Authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom
6:15pm-6:45pm	Poster Session III presenters to remove posters	Exhibit Hall, Grand Ballroom
6:30pm-11:30pm	Auction	**Little America Hotel, Grand Ballroom

Saturday, October 29

7:00am–4:00pm	Registration Open	Grand Ballroom Offices
7:30am-9:30am	Poster Session IV presenters to set up posters	Exhibit Hall, Grand Ballroom
8:00am–12:15pm	8:00am–10:00am Podium Symposium III: Recent Advances in Understanding the Origins and Evolution of Tetrapod Endothermy	Imperial Ballroom AB
10:15am–12:15pm	Technical Session XV	
8:00am–12:15pm	Technical Session XVI	Imperial Ballroom CD
	Technical Session XVII	Grand Ballroom A
9:30am–6:15pm	Exhibits and Posters Open for Viewing Posters associated with Podium Symposium III “Recent Advances in Understanding the Origins and Evolution of Tetrapod Endothermy” Posters (IB1–IB2) Colbert Prize Competition Posters <i>*Colbert Prize posters (B1–B50) will be on display Wednesday through Saturday.</i> Poster Symposium II “An Ecosystem We Thought We Knew: The Emerging Complexities of the Morrison Formation” Posters (B51–B69) <i>*Poster Symposium II posters will be on display Friday and Saturday.</i> Regular Session Posters (B70–B164) E&O Posters (B165–B187)	Exhibit Hall, Grand Ballroom Imperial Ballroom Foyer Exhibit Hall, Grand Ballroom Exhibit Hall, Grand Ballroom
1:45pm–4:15pm	Technical Session XVIII	Imperial Ballroom AB
	Technical Session XIX	Imperial Ballroom CD
	Technical Session XX	Grand Ballroom A
4:15pm–6:15pm	Poster Session IV (Regular Session Posters, B70–B164) <i>*Poster Session IV authors will be present at their posters.</i> E&O Poster Session (B165–B187) <i>*Authors will be present at their posters.</i> Posters associated with Podium Symposium III “Recent Advances in Understanding the Origins and Evolution of Tetrapod Endothermy” (IB1–IB2) <i>*Authors will be present at their posters.</i>	Exhibit Hall, Grand Ballroom Exhibit Hall, Grand Ballroom Imperial Ballroom Foyer
6:15pm–6:45pm	Poster Session IV presenters to remove posters	Exhibit Hall, Grand Ballroom
7:30pm–10:00pm	Awards Banquet <i>*Ticket required for admittance</i>	Imperial Ballroom ABCD
10:00pm–1:00am	After Hours Party	**Little America Hotel, Grand Ballroom

2016 SVP Workshops - For Pre-registered Attendees

TUE, October 25 9:00 am–4:00 pm	Photogrammetry: Efficient Use of Digital Photography for 3D Data Collection in the Lab, Collections, and Field	Grand America Hotel, Murano
TUE, October 25 9:00 am–4:00 pm	Filling the Expectation Gap: Paleontologists as Teaching Professors – Professional Development for Paleontologists Working Outside of Research-Intensive Universities	Grand America Hotel, Milano
TUE, October 25 9:00 am–5:00 pm	Air Abrasion – Preserving the Smallest Details	**Natural History Museum of Utah, Paleo Prep Lab
TUE, October 25 9:30 am–4:30 pm	Archiving and Analyzing Vertebrate Paleoecological Data: Best Practices and Current Resources	Grand America Hotel, Riviera
TUE, October 25 11:00 am–5:00 pm	Morphological Evolution in Deep Time: Calculating Disparity and Rates from Discrete Phenotypic Data	Grand America Hotel, Audubon
TUE, October 25 1:00 pm–4:00 pm	Diverse Approaches to Paleo Outreach Programs: Ideas, Strategies, and Logistics	**Natural History Museum of Utah

2016 SVP Field Trips - For Pre-registered Attendees

**All Field Trips pick up and drop off locations are at the Grand America Hotel*

Begins Sunday, October 23, at 7:30 am. Ends Tuesday, October 25, at 6:00 pm.	Mid Mesozoic Dinosaur Faunas of Central Utah
Begins Sunday, October 23, at 5:00 pm. Ends Tuesday, October 25, at 7:00 pm.	Rise of the Erg: Paleontology & Paleoenvironments of the Triassic-Jurassic Transition in Northeastern Utah
Begins Monday, October 24, at 7:30 am. Ends Tuesday, October 25, at 7:30 pm.	Fossil Lake Deposits of the Green River Formation: Not All Fish Are Preserved Equal
Begins Monday, October 24, at 7:30 am. Ends Tuesday, October 25, at 8:30 pm.	Bonebeds of the Morrison Formation
Tuesday, October 25 8:30 am – 4:30 pm	Brigham Young University Earth Science Museum and North American Museum of Ancient Life
Sunday, October 30 8:00 am – 4:00 pm	Shorelines of Pleistocene Lake Bonneville
Begins Sunday, October 30, at 8:00 am. Ends Tuesday, November 1, at 7:00 pm.	Late Cretaceous Stratigraphy and Vertebrate Faunas of Southern Utah
Begins Sunday, October 30, at 8:00 am. Ends Tuesday, November 1, at 8:00 pm.	Vertebrate Paleontology, Stratigraphy, Biochronology, and Paleoecology of Middle Eocene Rock Units in the Green River and Uinta Basins, Wyoming and Utah
Begins Sunday, October 30, at 7:00 am. Ends Wednesday, November 2, at 7:00 pm.	The Upper Triassic Chinle Formation of Southern Utah

PROGRAM AT A GLANCE

	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A
	Podium Symposium I: Molecular Preservation in the Fossil Record: Evidence, Analyses, Applications and Challenges	Technical Session I	Technical Session II	Romer Prize Session	Preparator's Session	Technical Session VI
	WED	WED	WED	THUR	THUR	THUR
8:00 am	SCHWEITZER	VON KOENIGSWALD	KLIGMAN	CHEN	BUGBEE	RANDAU
8:15 am	SCHROETER	DEWAR	SIMOE	TENNANT	SAWCHUK	BALISI
8:30 am	PRESSLEE	CAMMIDGE	DONG	LEMBERG	KLINE	PRYBYLA
8:45 am	CLELAND	HEDBERG	CONRAD	CHEN	BALCARCEL	BOESSENECKER
9:00 am	SJÖVALL	WINKLER	KEMP	WATANABE	HECK	WANG
9:15 am	LINDGREN	DESANTIS	PETERMANN	SALAS-GISMONDI	SMITH	O'KEEFE
9:30 am	WIEMANN	MIHLBACHLER	LAFUMA	MORHARDT	BROWNE	MEACHEN
9:45 am	PETEYA	KUHN-HENDRICKS	GELNAW	FIELD	SANTELLA	MONTANARI
10:00 am	COFFEE					
10:15 am	BOATMAN	BAI	HENRY	CARNEY	MALLISON	WILLS
10:30 am	ANNE	MACFADDEN	STREET	COUZENS	PRUITT	MOORE
10:45 am	MOYER	SCOTT	LIVELY	O'BRIEN	SHELBURNE	CARPENTER
11:00 am	PAN	WALLETT	KONISHI	BARRON-ORTIZ	BERNARD	BADER
11:15 am	CADENA	MARCOT	CALDWELL	SMILEY	MILES	SAITTA
11:30 am	ULLMANN	EMERY	CAMPBELL	BERTRAND	BROWN	ROY
11:45 am	HEINTZMAN	CALAMARI	GARBEROGLIO	DAVIS	BARNETT	TURNER
12:00 pm	JONES	BORMET	FOLIE	CHRITZ	GETTY	ALLENSACK
12:15 pm	BREAK					
1:30 pm						
	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A
	Technical Session III	Technical Session IV	Technical Session V	Technical Session VII	Technical Session VIII	Technical Session IX
1:45 pm	HABIB	BEBEJ	BUTTON	BROWN	WILSON	AHLBERG
2:00 pm	GOLD	ZOUHRI	VAVREK	EVANS	LÓPEZ-TORRES	MIN ZHU
2:15 pm	VARRICCHIO	CORRIE	MALLON	GOODWIN	MORSE	PAN
2:30 pm	KING	CHURCHILL	CLOSE	HOBE	RANKIN	YOU-AN ZHU
2:45 pm	STRUBLE	LANZETTI	DEMAR	FREEDMAN	HOFFMAN	SCOTT
3:00 pm	M. WANG	PEREDO	MITCHELL	WOSIK	GARRETT	LU
3:15 pm	HANSON	FORDYCE	GARDNER	NORMAN	FOX	CLOUTIER
3:30 pm	KSEPKA	CLEMENTZ	HALLIDAY	ERICKSON	BURROUGHS	WILHELM
3:45 pm	THOMSON	SULSER	TOTH	WIERSMA	CASANOVAS-VILAR	BLOB
4:00 pm	CLAESSIONS	TEJADA-LARA	POLLY	ARBOUR	MARCY	MACIVER
4:15 pm	Poster Session I			Poster Session II		
6:15 pm						

	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A
	Podium Symposium II: Paleo Evo-Devo: The New Science of the Very Old	Technical Session X	Technical Session XI	Podium Symposium III: Recent Advances in Understanding the Origins and Evolution of Tetrapod Endothermy	Technical Session XVI	Technical Session XVII
	FRI	FRI	FRI	SAT	SAT	SAT
8:00 am	GOSWAMI	FORD	SNYDER	BAKKER	HOPKINS	METZ
8:15 am	WEISBECKER	ELSLER	JOHANSON	KNAUS	BADGLEY	DRUCKENMILLER
8:30 am	URBAN	ANDRUS	BRONSON	SHELTON	CALEDE	JIANG
8:45 am	LUO	PRITCHARD	STILSON	SEYMOUR	FAMOSO	ZHOU
9:00 am	JERNVALL	PARKER	ARGYRIOU	CROMPTON	MANTHI	WOLNIEWICZ
9:15 am	EVANS	LESSNER	LATIMER	SANDER	VILLASEÑOR	KELLEY
9:30 am	BOISVERT	MELSTROM	MALTESE	LEGENDRE	DU	LAWRENCE
9:45 am	SEARS	HASTINGS	ITANO	TATTERSALL	DUMOUCHEL	MASSARE
10:00 am	COFFEE					
				Technical Session XV		
10:15 am	BHULLAR	CLARK	CAMPIONE	MCPHEE	BEHRENSMEYER	STUBBS
10:30 am	COATES	TURNER	LIU	LAMANNA	ROBINSON	W. WANG
10:45 am	HIRASAWA	MILLER-CAMP	GOTTFRIED	FRONIMOS	JUKAR	MOTANI
11:00 am	BELL	BOLES	WU	GORSCAK	DENG	ROBERTS
11:15 am	HEAD	MYERS	ABDELGAWAD	UPCHURCH	MCLAUGHLIN	MUSCUTT
11:30 am	KAVANAGH	EVERS	CLAESON	BARRETT	ZAZULA	WINTRICH
11:45 am	FELICE	RABI	CARRILLO BRICEÑO	YANG	STEGNER	NEENAN
12:00 pm	LARSSON	VERMILLION	DENTON	GRIFFIN	PINEDA-MUNOZ	DRISCOL
12:15 pm	BREAK					
1:30 pm						
	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A	Imperial Ballroom AB	Imperial Ballroom CD	Grand Ballroom A
	Technical Session XII	Technical Session XIII	Technical Session XIV	Technical Session XVIII	Technical Session XIX	Technical Session XX
1:45 pm	SOBRAL	HOVATTER	BRINK	FABBRI	SCHULTZ	MADDIN
2:00 pm	TSAI	S.SMITH	LUNG MUS	MARSH	BRANNICK	RASMUSSEN
2:15 pm	MANAFZAD	SECORD	SIDOR	CARRANO	GROSSNICKLE	ATKINS
2:30 pm	SULLIVAN	SHELLEY	KAMMERER	S. WANG	JÄGER	CARTER
2:45 pm	HOLLIDAY	SOLÉ	BENDEL	D. SMITH	MAO	PARDO
3:00 pm	LEBLANC	VITEK	VIGLIETTI	CHOINIÈRE	HUTTENLOCKER	MARJANOVIC
3:15 pm	REISZ	FRASER	SMITH	HOLTZ	COHEN	TARAILO
3:30 pm	COST	T.SMITH	ANGIELCZYK	DECECCHI	SPAULDING	BEIGHTOL
3:45 pm	KAYE	BEARD	NABAVIZADEH	BYKOWSKI	BONNAN	MERCIER
4:00 pm	ORGAN	POUST	ARAUJO	LARSON	WEBB	HENRICI
4:15 pm	Poster Session III			Poster Session IV		
6:15 pm						

List of Authors and Abstract Titles in Chronological Session Order

Note:

*Numbers beginning with "B" represent the poster board number in Exhibit Hall, Grand Ballroom

*Numbers beginning with "IB" represent the poster board number in Imperial Ballroom Foyer

WEDNESDAY MORNING, OCTOBER 26, 2016

PODIUM SYMPOSIUM I: MOLECULAR PRESERVATION IN THE FOSSIL RECORD: EVIDENCE, ANALYSES,
APPLICATIONS, AND CHALLENGES

GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB

MODERATORS: Mary Schweitzer and Johan Lindgren

- 8:00 **Schweitzer, M. H., Zheng, W.** "PROVE TO ME THEY'RE NOT": MOLECULAR CHEMISTRY AS A TOOL FOR HYPOTHESES TESTING
- 8:15 **Schroeter, E. R., Cleland, T. P., Schweitzer, M. H.** PALEOPROTEOMICS: THE BENEFITS AND CHALLENGES OF USING TANDEM MASS SPECTROMETRY TO INVESTIGATE EXTINCT PROTEOMES DERIVED FROM SOFT-TISSUES PRESERVED IN FOSSIL REMAINS
- 8:30 **Presslee, S., Macphee, R. D., Collins, M., Southon, J., Holden, A., Farrell, A.** RADIOCARBON DATING AND PROTEOMIC ANALYSIS OF HIGHLY PURIFIED BONE COLLAGEN DERIVED FROM RANCHO LA BREA MAMMAL FOSSILS
- 8:45 **Cleland, T. P., Schroeter, E. R., Feranec, R. S., Vashishth, D., Schweitzer, M. H.** BEYOND THE SEQUENCE: UTILITY OF PROTEIN MODIFICATIONS IN FOSSILS
- 9:00 **Sjövall, P., Jarenmark, M., Uvdal, P., Carney, R., Lindgren, J.** TOF-SIMS AS A TOOL FOR MOLECULAR IDENTIFICATION IN VERTEBRATE FOSSILS—CAPABILITIES AND LIMITATIONS
- 9:15 **Lindgren, J., Ito, S., Wakamatsu, K., Hauff, R., Sjövall, P., Uvdal, P., Schweitzer, M. H.** SKIN PRESERVATION AND TAPHONOMY ELUCIDATED BY INTEGRATED MOLECULAR, ULTRASTRUCTURAL, AND EXPERIMENTAL APPROACHES
- 9:30 **Wiemann, J., Fabbri, M., Yang, T., Stein, K., Vinther, J., Geisler-Wierwille, T., Norell, M., Sander, M. P.** FROM WHITE TO BLACK: MAILLARD REACTION PRODUCTS AND ENDOGENOUS PORPHYRINS STAIN FOSSIL HARD TISSUES
- 9:45 **Peteya, J. A., Gao, K., Li, Q., Clarke, J. A., D'Alba, L., Shawkey, M. D.** RAMAN SPECTROSCOPY OF EUMELANIN PRESERVED IN MID-LATE JURASSIC AND EARLY CRETACEOUS VERTEBRATES FROM NORTHEASTERN CHINA
- 10:00 **BREAK**
- 10:15 **Boatman, E. M., Goodwin, M. B., Holman, H. N., Fakra, S., Schweitzer, M. H.** CHARACTERIZATION OF *TYRANNOSAURUS* STRUCTURAL PROTEINS USING SYNCHROTRON X-RAY AND INFRARED MICRO-BEAM TECHNIQUES
- 10:30 **Anne, J., Wogelius, R., Edwards, N., Manning, P.** IMAGING THE CHEMISTRY OF LIFE: INTERPRETING EXTINCT VERTEBRATE PHYSIOLOGY USING SYNCHROTRON X-RAY ANALYSES
- 10:45 **Moyer, A.** MICROSCOPIC AND MOLECULAR PRESERVATION OF EPIDERMALLY DERIVED FOSSILS
- 11:00 **Pan, Y., Zheng, W., Moyer, A., O'Connor, J., Wang, M., Zheng, X., Schroeter, E., Schweitzer, M. H., Zhou, Z.** MOLECULAR ANALYSES OF *EOCONFUCIUSORNIS* (BIRD) FEATHERS SUPPORT THE PRESENCE OF ORIGINAL KERATIN PROTEINS AND MELANOSOMES FOR AT LEAST 130 MA
- 11:15 **Cadena, E.** OSTEOCYTES AND BLOOD VESSEL-LIKE MICROSTRUCTURES FROM THE EOCENE, MESSEL PIT LOCALITY, GERMANY. INSIGHTS IN TERMS OF THEIR MORPHOLOGICAL AND CHEMICAL CHARACTERIZATION
- 11:30 **Ullmann, P., Voegelé, K., Grandstaff, D., Ash, R., Schroeter, E., Lacovara, K. J., Schweitzer, M. H.** EVALUATING THE UTILITY OF RARE EARTH ELEMENT PROFILES AS A PROXY FOR SOFT TISSUE AND BIOMOLECULAR PRESERVATION POTENTIAL IN FOSSIL BONE
- 11:45 **Heintzman, P. D., Zazula, G. D., Cahill, J. A., Mchorse, B. K., Kapp, J. D., Stiller, M., Scott, E., Macphee, R. D., Shapiro, B.** PALEOGENOMICS RESOLVES THE TAXONOMY AND SYSTEMATICS OF LATE PLEISTOCENE STILT-LEGGED EQUIDS FROM NORTH AMERICA
- 12:00 **Jones, E.** PUSHING NEW PERSPECTIVES: LESSONS LEARNED FROM THE HISTORY OF MOLECULAR PALEONTOLOGY

WEDNESDAY MORNING, OCTOBER 26, 2016
TECHNICAL SESSION I
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Larisa DeSantis and Matthew Mhlbachler

- 8:00 **Withdrawn**
- 8:15 **Dewar, E. W., Osimanti, C. E.** BODY SIZE AFFECTS DIETARY INTERPRETATIONS BASED ON MESOWEAR OR STEREOSCOPIC MICROWEAR IN MAMMALS
- 8:30 **Cambridge, T. S., Kooyman, B., Theodor, J. M.** DIETARY RECONSTRUCTIONS OF *MAMMUTHUS* AND *MAMMUT* SPECIES USING DENTAL TARTAR AND MESOWEAR ANALYSES
- 8:45 **Hedberg, C., Desantis, L.** CLARIFYING CAUSAL AGENTS OF DENTAL MICROWEAR FORMATION AS REVEALED BY KOALAS
- 9:00 **Winkler, D. E.** FUNCTIONAL MORPHOLOGY OF MOLARS IN UNGULATES: CONSTRAINTS AND COMMON FEATURES
- 9:15 **Desantis, L., Sharp, A. C., Schubert, B. W., Colbert, M. W.** TAPIRS AS MODEL ORGANISMS FOR UNDERSTANDING HOMINID EVOLUTION: THE FUNCTIONAL SIGNIFICANCE OF THE SAGITTAL CREST AS REVEALED FROM DENTAL MICROWEAR TEXTURE ANALYSIS AND FINITE ELEMENT ANALYSIS
- 9:30 **Mhlbachler, M. C., Kaur, P., Beatty, B. L.** IS DENTAL WEAR 'TAXON-FREE'? DIET, DENTAL WEAR, AND HUNTER-SHREGER BAND ORIENTATION IN RHINOCEROTIDAE
- 9:45 **Kuhn-Hendricks, S. M., Erickson, G. M., Norell, M.** THE EVOLUTION OF MODIFIED RADIAL ENAMEL IN EQUIDS CONFERRED DAMAGE TOLERANCE THROUGH CONTROLLED FRACTURE AND DAMAGE LOCALIZATION
- 10:00 **BREAK**
- 10:15 **Bai, B., Wang, Y., Meng, J.** ORIGIN AND CRANIODENTAL EVOLUTION OF DEPERETELLIDAE (MAMMALIA, PERISSODACTYLA)
- 10:30 **Macfadden, B. J., Guralnick, R. J.** HORSES IN THE CLOUD: BIG DATA EXPLORATION, MINING, AND INTEGRATION FOR *EQUUS* (MAMMALIA, EQUIDAE)
- 10:45 **Scott, E.** WHAT'S IN A NAME? RESOLVING THE TAXONOMY OF PLEISTOCENE LARGE *EQUUS* FROM THE NORTHERN GREAT BASIN OF NEVADA AND OREGON
- 11:00 **Wallett, L. A.** THE PALEOPATHOLOGY OF CHRONIC LAMINITIS: GROSS LESIONS AND CT-BASED EVIDENCE FROM THE FOSSIL RECORD OF *EQUUS*
- 11:15 **Marcot, J. D., Maier, J. A.** RATES AND PATTERNS OF LIMB EVOLUTION OF NORTH AMERICAN EQUIDAE
- 11:30 **Emery, M.** CRANIAL MORPHOMETRICS AND DENTAL MEASUREMENTS CRITICALLY UNDERESTIMATE THE DIVERSITY OF FOSSIL ARTIODACTYL SPECIES
- 11:45 **Calamari, Z.** BENEATH THE SHEATHS: DO HORN CORES OF BOVIDS (ARTIODACTYLA, MAMMALIA) REPRESENT LIVING HORN SHAPE IN GEOMETRIC MORPHOMETRIC ANALYSES?
- 12:00 **Bornet, A. K., Polly, P.** SUBSTRATE AND LIMB EVOLUTION: A GLOBAL ECOMORPHOLOGICAL ANALYSIS OF RUMINANT UNGUALS

WEDNESDAY MORNING, OCTOBER 26, 2016
TECHNICAL SESSION II
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Annelise Folie and Joshua Lively

- 8:00 **Kligman, B., Pritchard, A. C.** EARLIEST STEM-SQUAMATE (LEPIDOSAURIA) FROM THE LATE TRIASSIC OF ARIZONA
- 8:15 **Simoes, T. R., Caldwell, M. W., Nydam, R. L., Jimenez Huidobro, P.** OSTEOLOGY, PHYLOGENY AND FUNCTIONAL MORPHOLOGY OF TWO JURASSIC LIZARD SPECIES INDICATE THE EARLY EVOLUTION OF SCANSORIALITY IN GECKOES
- 8:30 **Dong, L., Evans, S. E., Wang, Y., Wang, Y., Chen, L.** A DIVERSE SQUAMATE ASSEMBLAGE FROM THE PALEOCENE DEPOSITS OF QIANSHAN BASIN, CHINA
- 8:45 **Conrad, J. L., Montanari, S., Ast, J. C., Wasserman, D. S., Norell, M.** FRAGMENTARY (AND COMPLETE) FOSSILS HELP RECONSTRUCT MONITOR LIZARD (SQUAMATA, VARANIFORMES) BIOLOGY AND EVOLUTION
- 9:00 **Kemp, M. E., Bochaton, C.** OUT WITH THE OLD AND IN WITH THE NEW: A NEW SET OF BODY SIZE ESTIMATION EQUATIONS FOR *ANOLIS* AND THEIR IMPLICATIONS FOR MACROEVOLUTION

- 9:15 **Petermann, H., Gauthier, J. A.** GROWTH RINGS AND SUTURE FUSIONS REVEAL COMPLEX ORGANISM-ENVIRONMENT INTERACTION IN LIZARDS: NEW INSIGHTS FOR INFERENCES ABOUT SIZE, AGE, AND DEVELOPMENTAL STAGE IN FOSSILS
- 9:30 **Lafuma, F. O., Clavel, J., Di-Poi, N.** MULTIPLE ORIGINS OF MULTICUSPID TEETH IN SQUAMATE REPTILES
- 9:45 **Gelnaw, W.** EVOLUTIONARY INSIGHTS FROM THE PINEAL FORAMEN
- 10:00 **BREAK**
- 10:15 **Henry, J. B., Gelnaw, W.** PHYLOGENETICALLY INFORMED DISCRIMINANT FUNCTION ANALYSIS AIDS FOSSIL IDENTIFICATION
- 10:30 **Street, H. P.** A SYSTEMATIC AND TAXONOMIC REVISION OF *MOSASAURUS* AND A GLOBAL MOSASAURINI
- 10:45 **Lively, J. R.** THE EVOLUTION AND VARIATION OF BASAL MOSASAURINAE BASED ON A SPECIMEN-LEVEL PHYLOGENY OF "*CLIDASTES*": IMPLICATIONS FOR MOSASAUR MACROEVOLUTION
- 11:00 **Konishi, T., Brinkman, D.** NON-LETHAL FACE BITING BETWEEN MOSASAURS (SQUAMATA: MOSASAURIDAE): THE FIRST UNEQUIVOCAL EVIDENCE FROM AN EXCEPTIONAL SKELETON OF *MOSASAURUS* SP. FROM SOUTHERN ALBERTA, CANADA
- 11:15 **Caldwell, M. W., Reisz, R. R., Nydam, R. L., Palci, A., Simoes, T. R.** *TETRAPODOPHIS AMPLECTUS* (CRATO FORMATION, LOWER CRETACEOUS, BRAZIL) IS NOT A SNAKE
- 11:30 **Campbell, M., Caldwell, M. W.** A REVIEW OF SPATIAL AND TEMPORAL DISTRIBUTIONS FOR NON-OPIHIDIAN OPIHIDIOMORPHS
- 11:45 **Garberoglio, F. F., Caldwell, M. W., Apesteguía, S., Nydam, R. L.** MORE THAN ONE? THE HIDDEN DIVERSITY OF THE LIMBED SNAKES OF LA BUITRERA (CANDELEROS FORMATION, EARLY LATE CRETACEOUS), ARGENTINA
- 12:00 **Folie, A., Mees, F., De Putter, T., Smith, T.** A NEW LARGE SPECIES OF THE SNAKE *PALAEOPHIS* FROM THE LUTETIAN MARINE MARGIN OF THE CONGO BASIN, CABINDA, ANGOLA

WEDNESDAY AFTERNOON, OCTOBER 26, 2016
TECHNICAL SESSION III
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATORS: Daniel Ksepka and Michael Habib

- 1:45 **Habib, M., Dececchi, A., Dufault, D., Larsson, H. C.** UP, UP AND AWAY: TERRESTRIAL LAUNCHING IN THEROPODS
- 2:00 **Gold, M. L., Norell, M., Smaers, J. B., Balanoff, A. M.** CHANGES IN BRAIN SHAPE ACROSS THE THEROPOD-BIRD TRANSITION
- 2:15 **Varricchio, D. J., Jackson, F. D.** EVOLUTIONARY TRANSITIONS IN REPRODUCTION FROM NON-AVIAN THEROPODS TO NEORNITHINE BIRDS: THE ENANTIORNITHINE RECORD
- 2:30 **King, J. L.** SEMICIRCULAR CANAL SHAPE WITHIN AVES AND NON-AVIAN THEROPODA: UTILIZING GEOMETRIC MORPHOMETRICS TO CORRELATE LIFE HISTORY WITH CANAL CROSS-SECTIONAL SHAPE
- 2:45 **Struble, M., Organ, C.** CONVERGENT EVOLUTION AND BIOMECHANICS OF THE RAPTORIAL FOOT
- 3:00 **Wang, M., Zhou, Z., Sullivan, C.** THE OLDEST KNOWN AVIAN GASTRIC PELLET FROM A FISH-EATING ENANTIORNITHINE, WITH IMPLICATIONS FOR THE DIGESTIVE SYSTEM IN EARLY BIRDS
- 3:15 **Hanson, M., Burnham, D. A., Bhullar, B. S.** RECONSTRUCTING THE SKULL OF *HESPERORNIS REGALIS*: THE FIRST THREE-DIMENSIONAL MODEL OF A CRETACEOUS STEM BIRD WITH INSIGHTS INTO EARLY AVIAN FUNCTIONAL MORPHOLOGY, PLESIOMORPHY, AND CONVERGENCE
- 3:30 **Ksepka, D., Gavryushkina, A., Heath, T., Stadler, T., Welch, D., Drummond, A.** NEW EVIDENCE FOR THE TIMING AND PATTERN OF PENGUIN EVOLUTION
- 3:45 **Thomson, V. A., Cooper, A.** AUSTRALIAN ISLAND EMUS ARE HOLOCENE DWARFS
- 4:00 **Claessens, L. P., Van Heteren, A. H., De Louw, P. G., Meijer, H. J., De Boer, E. J., De Vos, J., Janoo, A., Van Der Plicht, J., Soares, E. J., Rijdsdijk, K. F.** IMMINENT COLLAPSE RESOURCE RELEASE HYPOTHESIS—EVIDENCE FOR A RAPID PRE-EXTINCTION PHENOTYPIC SHIFT IN BODY SIZE IN THE DODO

WEDNESDAY AFTERNOON, OCTOBER 26, 2016
TECHNICAL SESSION IV
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Ryan Bebej and Mark Clementz

- 1:45 **Bebej, R. M., Smith, K. M.** ASSESSMENT OF LUMBAR MOBILITY IN ARCHAEOCETES (MAMMALIA, CETACEA): INSIGHTS INTO THE EVOLUTION OF AQUATIC LOCOMOTION IN THE EARLIEST WHALES

- 2:00 **Zouhri, S., Mhaidrat, L., Gingerich, P. D.** NEW SKELETON OF *PLATYOSPHYS AITHAI* (CETACEA) FROM THE LATE MIDDLE EOCENE OF GUERAN IN SOUTHWESTERN MOROCCO
- 2:15 **Corrie, J. E., Fordyce, R. E.** HETERODONT CONFUSION: A LATE OLIGOCENE PUTATIVE KEKENODONTID FROM NEW ZEALAND WITH COMMENTS ON THE TAXONOMY OF *SQUALODON GAMBIERENSIS*
- 2:30 **Churchill, M., Geisler, J., Beatty, B. L.** DIVERSITY OF CRANIAL TELESCOPING IN OLIGOCENE WHALES OF THE CHANDLER BRIDGE AND ASHLEY FORMATIONS OF SOUTH CAROLINA
- 2:45 **Lanzetti, A., Berta, A., Ekdale, E. G., Deméré, T. A.** LOST IN TRANSITION: DEVELOPMENTAL PATTERNS OF TOOTH FORMATION AND LOSS IN FETAL BALEEN WHALES AND IMPLICATIONS FOR MYSTICETE EVOLUTION
- 3:00 **Peredo, C. M., Pyenson, N., Uhen, M. D.** MORPHOLOGICAL CONSEQUENCES OF TOOTH LOSS: A COMPARISON OF THE COURSE OF THE MANDIBULAR CANAL IN MYSTICETE CETACEANS USING 3D MODELS
- 3:15 **Fordyce, R. E., Viglino, M., Buono, M. R., Cuitiño, J. I., Fitzgerald, E. M.** EARLY MIOCENE SQUALODONTID *PHOBERODON ARCTIROSTRIS* (ODONTOCETI, PLATANISTOIDEA) FROM PATAGONIA AND PHYLOGENETICS OF THE PLATANISTOIDEA
- 3:30 **Clementz, M. T., Larsen, T.** HOW MUCH KELP COULD A SEA COW EAT? IDENTIFYING CARBON SOURCES TO SIRENIAN DIETS THROUGH AMINO ACID STABLE ISOTOPE FINGERPRINTING
- 3:45 **Sulser, R. B., Luo, Z.** TESTING COMPETING MORPHOLOGICAL AND MOLECULAR PHYLOGENIES OF CHIROPTERA WITH MORPHOLOGICAL FEATURES OF THE INNER EAR COCHLEA
- 4:00 **Tejada-Lara, J. V., Flynn, J. J., Antoine, P., Salas-Gismondi, R.** MYLODONTID SLOTHS OF THE MIDDLE MIOCENE PEBAS MEGA-WETLANDS SYSTEM (WESTERN AMAZONIA, NORTHEASTERN PERU)

WEDNESDAY AFTERNOON, OCTOBER 26, 2016
TECHNICAL SESSION V
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Jordan Mallon and David Demar

- 1:45 **Button, D. J., Butler, R. J., Lloyd, G. T., Ezcurra, M. D.** THE FIRST GLOBAL-SCALE PHYLOGENETIC NETWORK BIOGEOGRAPHY ANALYSIS OF LATE PALEOZOIC AND EARLY MESOZOIC TERRESTRIAL VERTEBRATES AND THE INFLUENCE OF MASS EXTINCTIONS ON ANIMAL DISTRIBUTION
- 2:00 **Vavrek, M. J.** THE MESOZOIC BREAKUP OF PANGAEA AND TERRESTRIAL VERTEBRATE BIODIVERSITY
- 2:15 **Mallon, J., Fraser, D. L., Brinkman, D. B., Nydam, R. L., Scott, C.** TERRESTRIAL VERTEBRATE DIVERSITY IN LATE CRETACEOUS NORTH AMERICA
- 2:30 **Close, R. A., Benson, R. B., Butler, R. J.** CONTROLLING FOR THE SPECIES-AREA EFFECT REMOVES LONG-TERM DIVERSITY TRENDS IN MESOZOIC TERRESTRIAL VERTEBRATES
- 2:45 **Demar, D. G., Wilson, G. P., Brinkman, D. B., Holroyd, P. A., Smith, S. M., Mercier, G. K.** VERTEBRATE FAUNAL DYNAMICS DURING THE END-CRETACEOUS MASS EXTINCTION: A SYNTHESIS FROM THE FOSSIL RECORD OF NORTHEASTERN MONTANA, USA
- 3:00 **Mitchell, J. S., Benson, R., Rabosky, D.** DYNAMIC RATES OF DINOSAUR EVOLUTION THROUGH THE MESOZOIC
- 3:15 **Gardner, J., Organ, C.** DISCRETE MODELS OF CORRELATED EVOLUTION ARE PRONE TO FALSE POSITIVE RESULTS
- 3:30 **Halliday, T. J., Goswami, A.** PHYLOGENETIC DATING METHOD CRITICALLY AFFECTS INTERPRETATION OF CONTINUOUS TRAIT EVOLUTION
- 3:45 **Toth, A., Soul, L., Eronen, J. T., Lyons, S. K., Behrensmeyer, A. K., Pineda-Munoz, S.** STABILITY OF EMPIRICAL MAMMAL CO-OCCURRENCE NETWORKS OVER PALEONTOLOGICAL TIMESCALES
- 4:00 **Polly, P., Schnitzler, J., Eronen, J. T., Lawing, A.** LONG-TERM DIRECTIONAL TRANSITIONS IN GLOBAL CLIMATE RATHER THAN SHORT-TERM FLUCTUATIONS DRIVE CHANGES IN VERTEBRATE DIVERSITY

WEDNESDAY, OCTOBER 26 THROUGH SATURDAY OCTOBER 29, 2016
SVP 2016 EDWIN H. AND MARGARET M. COLBERT PRIZE COMPETITION POSTERS
GRAND AMERICA HOTEL, EXHIBIT HALL, GRAND BALLROOM
Authors must be present from 4:15 – 6:15 p.m., Thursday, October 27
Posters must be removed by 6:30 p.m., Saturday, October 29

- B1 **Ni, P., Sun, Z., Lombardo, C., Tintori, A., Jiang, D.** REVISION OF *KYPHOSICHTHYS GRANDEI* FROM THE MIDDLE TRIASSIC OF YUNNAN PROVINCE, SOUTH CHINA: IMPLICATIONS FOR PHYLOGENETIC INTERRELATIONSHIPS OF GINGLYMODIAN FISHES

- B2 **Coats, J. G., Noto, C. R.** MORPHOMETRICS ON A SMALL SCALE: USING SHAPE TO ASSIGN ISOLATED FOSSIL GAR SCALES TO SPECIFIC BODY REGIONS
- B3 **Voris, J., Heckert, A. B., Martin, L.** ONTOGENETIC HETERODONTY IN *RETICULODUS SYNERGUS* (HYBODONTIDAE, ACRODONTINAE), A FRESHWATER SHARK FROM THE UPPER TRIASSIC OF THE AMERICAN SOUTHWEST
- B4 **Hodnett, J. M., Grogan, E. D., Lund, R.** A SMALL CTENACANTHIFORM SHARK FROM THE LATEST MISSISSIPPIAN (SERPUKHOVIAN) BEAR GULCH LIMESTONE OF MONTANA
- B5 **Bardua, C., Evans, S. E., Goswami, A.** PHYLOGENY, ECOLOGY, AND TIME: 2D OUTLINE ANALYSIS OF ANURAN SKULLS FROM THE EARLY CRETACEOUS TO RECENT
- B6 **Paparella, I., Caldwell, M. W., Nicosia, U.** A COMPARATIVE AND MORPHOMETRIC APPROACH TO THE INVESTIGATION OF THE CONVERGENT ADAPTATIONS IN SECONDARY AQUATIC AMNIOTES
- B7 **Campbell, J. A., Sato, T., Tokaryk, T. T., Anderson, J. S.** AN UNUSUAL ELASMOSAURID (SAUROPTERYGIA, PLESIOSAURIA) FROM THE UPPER CRETACEOUS (UPPER CAMPANIAN–LOWER MAASTRICHTIAN) BEARPAW FORMATION OF SASKATCHEWAN
- B8 **Foffa, D., Brusatte, S., Young, M. T., Dexter, K. G.** THE ECOLOGY AND EVOLUTION OF JURASSIC MARINE REPTILES
- B9 **Chapman, B. R., Lively, J. R.** A NEW ASSEMBLAGE OF MOSASAURS FROM THE UPPER CRETACEOUS SAVOY PIT, AUSTIN CHALK, NORTH TEXAS
- B10 **Vernygora, O. V., Simoes, T. R., Paparella, I. V., Jimenez Huidobro, P., Caldwell, M. W.** MOSASAUROID PHYLOGENY UNDER MULTIPLE PHYLOGENETIC METHODS
- B11 **Herrera-Flores, J. A., Benton, M. J.** EXPLORING MACROEVOLUTION OF MESOZOIC LEPIDOSAURS
- B12 **Rej, J., Mead, J. I.** MORPHOMETRIC COMPARISON WITH IMPLICATIONS FOR THE FOSSIL RECORD OF TWO LIZARDS (PHRYNOSOMATIDAE, SQUAMATA), WESTERN USA: *UTA STANSBURLIANA* AND *UROSAURUS ORNATUS*
- B13 **Ong, N. S., Irmis, R., Levitt-Bussian, C.** A HISTOLOGICAL STUDY OF ONTOGENETIC AND TAXONOMIC VARIATION IN SHELL ORNAMENTATION OF TRIONYCHOID TURTLES FROM THE UPPER CRETACEOUS (CAMPANIAN) KAIPAROWITS FORMATION OF UTAH
- B14 **Syromyatnikova, E., Scheyer, T., Danilov, I. G.** BONE HISTOLOGY OF ADOCUSIAN TURTLES FROM ASIA AND NORTH AMERICA
- B15 **Lawver, D., Jackson, F.** A FOSSIL EGG CLUTCH FROM THE STEM TURTLE *MEIOLANIA PLATYCEPS*: IMPLICATIONS FOR THE EVOLUTION OF TURTLE REPRODUCTIVE BIOLOGY
- B16 **Olroyd, S. L., Sidor, C. A., Angielczyk, K. D., Nesbitt, S. J., Smith, R., Steyer, J., Tabor, N. J., Tolan, S.** RECENT TETRAPOD DISCOVERIES FROM THE MIDDLE PERMIAN (GUADALUPIAN) OF TANZANIA AND ZAMBIA, WITH BIOGEOGRAPHIC CONSIDERATIONS
- B17 **Datta, D., Mukherjee, D., Ray, S.** A NEW PHYTOSAUR (DIAPSIDA, ARCHOSAURIFORMES) BONEBED FROM THE LATE TRIASSIC OF INDIA: TAPHONOMIC SIGNATURES AND BIOSTRATIGRAPHIC IMPLICATIONS
- B18 **Dollman, K. N., Choiniere, J. N.** INVESTIGATING THE CRANIAL ANATOMY AND PARATYMPANIC SINUS SYSTEMS OF LOWER JURASSIC CROCODYLOMORPHA USING COMPUTED TOMOGRAPHY AND 3D DIGITAL MODELLING
- B19 **Sellers, K. C., Davis, J. L., Middleton, K. M., Holliday, C. M.** BIOMECHANICS AND THE EVOLUTION OF THE CROCODYLIFORM SKULL
- B20 **Cerio, D., Witmer, L. M.** SOFT TISSUE RECONSTRUCTION AND VISUAL FIELDS OF DINOSAURS AND THEIR EXTANT RELATIVES
- B21 **Läbe, S.** VERTICAL EXAGGERATION OF 3D SURFACE MODELS REVEALS ADDITIONAL DETAIL IN SAUROPOD TRACKWAYS
- B22 **Barta, D. E., Nesbitt, S. J., Norell, M.** THE MANUS OF EARLY THEROPOD DINOSAURS: DIGITAL RECONSTRUCTIONS OF ARTICULATED SPECIMENS REVEAL A COMPLEX EVOLUTIONARY PATTERN OF DIGIT REDUCTION
- B23 **Moore, A. J., Clark, J. M.** A COMPREHENSIVE, TIME-CALIBRATED PHYLOGENY OF THE DIVERSE 'WATERBIRD' ASSEMBLAGE INFERRED USING BAYESIAN TOTAL EVIDENCE METHODS
- B24 **Wynd, B. M., Sidor, C. A., Peacock, B. R., Whitney, M., Smith, R., Nesbitt, S. J., Angielczyk, K. D., Tabor, N. J.** FIRST OCCURRENCE OF *CYNOGNATHUS* IN TANZANIA AND ZAMBIA, WITH BIOSTRATIGRAPHIC IMPLICATIONS FOR THE AGE OF TRIASSIC STRATA IN SOUTHERN PANGAEA
- B25 **Weaver, L. N., Sargis, E. J., Wilson, G. P., Varricchio, D. J.** THE FIRST POSTCRANIAL SKELETON OF *CIMEXOMYS JUDITHAE* AND IMPLICATIONS FOR LOCOMOTOR DIVERSITY IN LATE CRETACEOUS CIMOLODONTAN MULTITUBERCULATES

- B26 **Hoffmann, S., Krause, D. W., Hu, Y.** THE FIRST POSTCRANIAL REMAINS OF A GONDWANATHERIAN MAMMAL
- B27 **Widlansky, S. J., Clyde, W. C., O'Connor, P. M., Roberts, E. M., Stevens, N. J.** CRETACEOUS MAGNETOSTRATIGRAPHY IN SOUTHWESTERN TANZANIA AND IMPLICATIONS FOR VERTEBRATE PALEOBIOGEOGRAPHY
- B28 **Chen, M., Carrano, M. T.** ECOLOGICAL DYNAMICS OF MESOZOIC MAMMALIAN COMMUNITIES IN RESPONSE TO ABIOTIC AND BIOTIC CHANGES
- B29 **Kristjanson, H. L., Silcox, M. T., Perry, J.** A NEW PARTIAL CRANIUM OF *PLESIADAPIS TRICUSPIDENS* AND INSIGHTS INTO PLESIADAPIFORM CRANIAL ANATOMY
- B30 **Locke, E. M., Rowan, J., Reed, K. E.** SEXUAL DIMORPHISM IN PLIOCENE *GAZELLA* (MAMMALIA, ARTIODACTYLA) FROM MAKAPANSGAT LIKEWORKS CAVE, SOUTH AFRICA
- B31 **Matsui, K.** RE-EXAMINATION OF DESMOSTYLIAN PHYLOGENETIC RELATIONSHIPS
- B32 **Kerr, T. J., Clementz, M.** COMPOSITIONAL PROFILES OF TYMPANIC BULLAE OF MODERN BALAENOPTERIDS AND BALAENIDS (CETACEA, MYSTICETI): IMPLICATIONS FOR FOSSILIZATION AND CETACEAN PALEOECOLOGY
- B33 **Moroz, M. J., Smiley, T., Badgley, C.** ECOLOGICAL RESPONSE OF SMALL-MAMMAL ASSEMBLAGES TO ENVIRONMENTAL CHANGE OVER THE MIOCENE CLIMATIC OPTIMUM IN SOUTHERN CALIFORNIA
- B34 **Cotte, M., Soibelzon, L., Prevosti, F. J., Vizcaino, S. F., Bocherens, H.** INSIGHTS INTO THE PALAEOECOLOGY OF SOUTHERN SOUTH AMERICA DURING THE NEOGENE USING THE STABLE ISOTOPE ANALYSIS OF MAMMALIAN TOOTH ENAMEL AND DENTINE CARBONATE
- B35 **Haupt, R. J., McDonald, H., Clementz, M.** DIETARY PREFERENCES OF THE SHASTA GROUND SLOTH (*NOTHROTHERIOPS SHASTENSIS*) INFERRED FROM STABLE ISOTOPE ANALYSIS OF COPROLITES
- B36 **Mychajliw, A. M., Cooke, S. B., Almonte, J., Feliz, G., Gibson, L., Hadly, E. A.** WHAT IS 'NATURAL' AFTER 10,000 YEARS OF EXTINCTIONS AND INVASIONS? CONSERVATION PALEOBIOLOGICAL APPROACHES IN PARQUE NACIONAL JARAGUA, DOMINICAN REPUBLIC
- B37 **Suraprasit, K., Chaimanee, Y., Bocherens, H., Jaeger, J.** MIDDLE MIOCENE SYMPATRIC TRAGULIDS IN C3-DOMINATED GRASSLANDS OF MAE MOH (LAMPANG PROVINCE, NORTHERN THAILAND): THE FIRST RECORD OF THE GENUS *DORCATHERIUM* FROM SOUTHEAST ASIA
- B38 **Catena, A. M., Saylor, B. Z., Croft, D. A.** USING ICHNOFOSSILS AND PALEOSOLS TO RECONSTRUCT THE MIDDLE MIOCENE PALEOENVIRONMENT OF QUEBRADA HONDA, BOLIVIA
- B39 **Colleary, C., Dolocan, A., Nesbitt, S. J.** CHEMICALLY CHARACTERIZING THE DIAGENETIC ALTERATION OF BIOMOLECULES IN PROBOSCIDEANS
- B40 **Gerwitz, A., Green, J. L.** BONE HISTOLOGY REVEALS A DECREASE IN GROWTH RATE OF FLORIDA *ODOCOILEUS VIRGINIANUS* (MAMMALIA, CERVIDAE) OVER THE PAST 2 MILLION YEARS
- B41 **Smail, I. E., Rector, A. L., Garello, D. I., Locke, E., Campisano, C. J., Arrowsmith, J., Reed, K. E.** PLEISTOCENE PRIMATES AND RODENTIA FROM MARKAYTOLI, LOWER AWASH VALLEY, ETHIOPIA: TAPHONOMIC AND PALEOENVIRONMENTAL IMPLICATIONS
- B42 **Hensley-Marschand, B., Polly, P.** ECOMETRIC INDICATORS DEMONSTRATE SEASONALLY WARM AND ARID ENVIRONMENTS IN THE EARLY PLEISTOCENE OF NORTHERN EAST ASIA
- B43 **Holt, E. M., Zhang, Z., Spano, N., Blake, S. E., Garcialuna, P., Sysiong, P., Rasco, J.** RELATIVE ABUNDANCE IN THE MAMMALIAN FAUNA OF FOSSIL LAKE, OREGON, WITH IMPLICATIONS FOR UNDERSTANDING COMMUNITY COMPOSITION IN THE REGION
- B44 **Ferguson, K. J., Price, G. J., Webb, G. E., Feng, Y.** GEOCHEMICAL 'FINGERPRINTING' OF LATE PLEISTOCENE AGE VERTEBRATE FOSSIL REMAINS FROM KINGS CREEK, DARLING DOWNS, QUEENSLAND, AUSTRALIA
- B45 **Peters, B. J., Schwermann, A. H., Martin, T.** MORPHOLOGICAL DIVERSITY OF THE ZALAMBODONT MOLARS OF GOLDEN MOLES (MAMMALIA, CHRYSOCHLORIDAE) WITH INDICATION FOR DIFFERENT FOOD TEXTURE
- B46 **Cherney, M. D., Fisher, D. C., Rountrey, A. N.** SEASON OF BIRTH AND TIMING OF EARLY DENTAL DEVELOPMENT IN AMERICAN MASTODONS (*MAMMUT AMERICANUM*)
- B47 **Oberg, D., Hopkins, S. S.** RECONSTRUCTING BODY MASS FROM MARSUPIAL DENTAL DIMENSIONS
- B48 **Kay, D. I., Kuhn-Hendricks, S. M., Erickson, G. M.** EVOLUTION OF MINERALIZED DENTAL TISSUE MATERIAL PROPERTIES IN GNATHOSTOMATA
- B49 **Hielscher, R. C., Martin, T.** MOLAR RELIEF INDEX OF EXTANT AND FOSSIL BATS WITH APPLICATION TO DIETARY HABITS
- B50 **Trayler, R. B., Kohn, M. J.** ENAMEL MATURATION IS INDEPENDENT OF APPositionAL GEOMETRY

WEDNESDAY, OCTOBER 26 THROUGH THURSDAY OCTOBER 27, 2016
POSTER SYMPOSIUM I: ADVANCES IN MIDDLE EOCENE PALEOECOLOGY: EVOLUTIONARY AND ECOLOGICAL DYNAMICS IN A POST-GREENHOUSE WORLD
GRAND AMERICA HOTEL, EXHIBIT HALL, GRAND BALLROOM
Authors must be present from 4:15 – 6:15 p.m., Wednesday, October 26
Posters must be removed by 6:30 p.m., Thursday, October 27

- B51 **Smith, H. F., Hutchison, J., Jager, D. M., Adrian, B., Townsend, K.** NEWLY DISCOVERED CRANIAL, POSTCRANIAL, AND SHELL SPECIMENS OF *BAENA ARENOSA* AND *CHISTERNON UNDATUM* FROM THE UINTA FORMATION, UINTA BASIN, UTAH, USA: INSIGHTS INTO MORPHOLOGICAL VARIATION AT THE END OF THE BAENID RADIATION
- B52 **Adrian, B., Hutchison, J., Townsend, K.** NEW REPORTS AND DISTRIBUTION OF RARE TURTLES IN THE UINTA FORMATION, INCLUDING SPECIMENS FROM CARETTOCHELYIDAE, PLANETOCHELYIDAE, TESTUDINIDAE, GEOEMYDIDAE, AND BAENIDAE
- B53 **Elshafie, S. J.** CAN INFERRED ECOLOGY ELUCIDATE DRIVERS OF LIZARD EVOLUTION THROUGH EOCENE CLIMATIC TRANSITIONS OF THE WESTERN INTERIOR?
- B54 **Hutchison, J., Holroyd, P. A., Westgate, J. W.** CARETTOCHELYINES FROM THE MIDDLE EOCENE OF COASTAL TEXAS: COSMOPOLITAN DISPERSERS IN A TIME OF GLOBAL WARMTH
- B55 **Jager, D. M., Smith, H. F., Hutchison, J., Jorge, K., Adrian, B., Townsend, K.** 3D EPIPLASTRAL, GEOGRAPHIC, AND BODY SIZE VARIATION IN *ECHMATEMYS*, A GEOEMYDID TURTLE FROM THE UINTA FORMATION, UINTA BASIN, UTAH, USA
- B56 **Muldoon, K. M., Jager, D. M., Zonneveld, J., Bartels, W. S., Gunnell, G. F.** GEOGRAPHIC PATTERNING IN MAMMAL COMMUNITY DYNAMICS ACROSS THE WASATCHIAN-BRIDGERIAN BOUNDARY AT SOUTH PASS, WYOMING
- B57 **Tomiya, S., Spaulding, M., Zack, S. P.** DIVERSITY AND TURNOVER OF MAMMALIAN CARNIVORES FROM THE MIDDLE EOCENE WASHAKIE FORMATION, WYOMING, USA
- B58 **Higgins, P., Townsend, K., Rosenstein, D.** COLOR AND CHEMISTRY AS PROXIES FOR ENVIRONMENTAL CHANGE DURING THE UINTAN NORTH AMERICAN LAND MAMMAL 'AGE' (NALMA) AND AT THE BOUNDARY BETWEEN THE UINTAN AND DUCHESNEAN NALMAS
- B59 **Stroik, L. K., Townsend, K.** THE EVOLUTION OF ECOLOGICAL NICHE STRUCTURE IN NORTH AMERICAN MIDDLE EOCENE UNGULATES
- B60 **Yapuncich, G. S., Harrington, A. R., Bloch, J. I., Gunnell, G. F., Boyer, D. M.** ECOLOGICAL INFERENCES OF EARLY EUPRIMATES OF THE BRIDGER BASIN: AN EVALUATION OF CRANIODENTAL AND POSTCRANIAL BODY MASS PREDICTORS FROM ASSOCIATED SKELETONS
- B61 **Perchalski, B. A., Gonzales, L. A., Gunnell, G. F., Bloch, J. I., Boyer, D. M.** MORPHOLOGICAL VARIATION AND SEXUAL DIMORPHISM IN SYMPATRIC NOTHARCTINE (EUPRIMATES, ADAPIFORMES) SPECIES
- B62 **Boyer, D. M., Gunnell, G. F., Gonzales, L., Alexander, J. P., Dunn, R. H., Bloch, J. I.** EXCEPTIONALLY COMPLETE IN SITU SKELETON OF AN ADULT EARLY EOCENE NOTHARCTINE EUPRIMATE
- B63 **Atwater, A., Kirk, E. C.** NEW UINTAN OMOMYIDS (PRIMATES, HAPLORHINI) FROM SOUTHERN CALIFORNIA AND THE IMPLICATIONS FOR NORTH AMERICAN PRIMATE RICHNESS DURING THE MIDDLE EOCENE
- B64 **Kirk, E., Atwater, A., Campisano, C., Egberts, S., Lundeen, I.** A NEW PRIMATE PARTIAL CRANIAL SPECIMEN FROM THE LATE MIDDLE EOCENE OF THE TORNILLO BASIN, TEXAS
- B65 **Lundeen, I. K., Kirk, E.** REDUCTION OF THE OLFACTORY SYSTEM IN PRIMATES: NEW INSIGHTS FROM THE NASAL FOSSA OF THE DUCHESNEAN PRIMATE *ROONEYIA VIEJAENSIS*
- B66 **Mattingly, S. G., Beard, K.** A NEW CARPOLESTID FROM SOUTHWESTERN WYOMING AND ITS PHYLOGENETIC IMPLICATIONS
- B67 **Fulwood, E. L., Gunnell, G. F., Perchalski, B. A., Harrington, A., Gonzales, L., Alexander, J. P., Bloch, J. I., Boyer, D. M.** REVISED HIGH RESOLUTION STRATIGRAPHY OF BRIDGER FORMATION IN GRIZZLY BUTTES AREA OF SOUTHWEST WYOMING
- B68 **Theodor, J. M., Dutchak, A., Perry, J. M.** UPDATE ON THE CYPRESS HILLS FORMATION FAUNAS OF SASKATCHEWAN (EOCENE-OLIGOCENE): NEW LOCALITIES AND NEW FOSSILS
- B69 **Dunn, R. H.** REVISED MAMMALIAN FAUNA FROM THE SAND WASH BASIN AND ASSESSMENT OF AN EARLIEST UINTAN AGE
- B70 **Westgate, J. W., Townsend, B.** A COMPARISON OF TWO LATE UINTAN (LATE MIDDLE EOCENE) MICRO-MAMMAL FAUNAS FROM THE CENTRAL ROCKY MOUNTAINS AND TEXAS COASTAL PLAIN AND THEIR PALEOECOLOGIC IMPLICATIONS

- B71 **Li, Q., Meng, J., Wang, Y.** NEW RODENT ASSEMBLAGE FROM STRATA NEAR THE EOCENE–OLIGOCENE BOUNDARY IN ERDEN OBO SECTION (NEI MONGOL, CHINA)
- B72 **Frischia, A. R., Dunn, R. H.** UINTAN CREODONTS FROM THE UINTA BASIN WITH A DESCRIPTION OF THE POST-CRANIAL SKELETON OF *OXYAENODON*
- B73 **Townsend, K. E., Hutchison, J., Ryan, M. J.** NEW SPECIMENS OF *HARPAGOLESTES* (MESONYCHIA, MESONYCHIDAE) FROM THE UINTA FORMATION, UINTA BASIN, UTAH
- B74 **Holroyd, P. A., Townsend, K.** *PROTOREODON* AND THE DIVERSIFICATION OF BASAL RUMINANTS
- B75 **Burger, B. J.** *HYRACHYUS EXIMIUS* FROM THE MIDDLE EOCENE LOWER WASHAKIE FORMATION ABODE TOWN MEMBER OF WYOMING AND ITS BEARING ON THE ORIGIN AND EARLY DIVERSIFICATION OF RHINOCEROSSES

WEDNESDAY, OCTOBER 26, 2016

POSTER SESSION I

GRAND AMERICA HOTEL, IMPERIAL BALLROOM FOYER

Authors must be present from 4:15 – 6:15 p.m.

Posters must be removed by 6:30 p.m.

Posters Associated with Symposium I: Molecular Preservation in the Fossil Record: Evidence, Analyses, Applications and Challenges

- IB1 **Uvdal, P., Sigfridsson Clauss, K., Carlson, S., Heimdal, J., Engdahl, A., Sjövall, P., Lindgren, J.** NEW LIGHT ON VERTEBRATE FOSSILS: HOW SYNCHROTRONS CAN CONTRIBUTE
- IB2 **Van Der Reest, A. J., Currie, P. J.** FACTORS INFLUENCING MACROSCOPIC AND BIOMOLECULAR FEATHER PRESERVATION ON A SPECIMEN OF *ORNITHOMIMUS* (DINOSAURIA, THEROPODA) FROM DINOSAUR PROVINCIAL PARK, ALBERTA

EXHIBIT HALL, GRAND BALLROOM

Regular Session Posters

- B76 **Forir, M.** PLEISTOCENE ICHNOFOSSILS AND THEIR IMPORTANCE IN RECONSTRUCTING MAMMALIAN HABITUAL CAVE USE
- B77 **Anglen, J. J., Chatters, J. C., Dundas, R. G., Hertfelder, S. E.** AN ATTRITIONAL ASSEMBLAGE TAPHONOMIC MODEL FOR THE FAIRMEAD LANDFILL FOSSIL LOCALITY (PLEISTOCENE, IRVINGTONIAN), MADERA COUNTY, CALIFORNIA
- B78 **Spano, N. G., Zhang, Z., Holt, E., Blake, S. E., Garcialuna, P., Sysiong, P.** MAMMALIAN TAPHONOMIC ENVIRONMENT OF PLEISTOCENE FOSSIL LAKE, OREGON
- B79 **Fox, N., Blois, J., Farrell, A., Takeuchi, G.** INITIAL ASSESSMENT OF PROJECT 23 SMALL MAMMAL DIVERSITY AND TAPHONOMY AT RANCHO LA BREA
- B80 **Madan, M. A., Prothero, D. R., Syverson, V.** SIZE AND SHAPE STASIS IN RANCHO LA BREA BARN OWLS OVER THE LAST GLACIAL-INTERGLACIAL CYCLE
- B81 **Long, K. L., Prothero, D. R.** STASIS IN RANCHO LA BREA BLACK VULTURES (*CORAGYPS OCCIDENTALIS*) OVER THE LAST GLACIAL-INTERGLACIAL CYCLE
- B82 **Biewer, J., Sankey, J. T., Garber, D., Wagner, H., Wilson, W., Castle, L., Beaman, M.** LOST AND FOUND: THE TURLOCK LAKE PALEOFAUNA AND FLORA
- B83 **Hulbert, R. C., Bourque, J. R., Bloch, J. I., Macfadden, B. J., Steadman, D. W.** GEOLOGY, PALEOECOLOGY, AND TAPHONOMY OF A NEW LATE MIOCENE (HEMPHILLIAN) LOCALITY FROM NORTH-CENTRAL FLORIDA
- B84 **Santos, G., Parham, J. F., Barboza, M., Kussman, B. N., Velez-Juarbe, J.** NEW RECORDS OF TERRESTRIAL AND MARINE MAMMALS FROM THE OSO SAND MEMBER, CAPISTRANO FORMATION, ORANGE COUNTY, CALIFORNIA
- B85 **Mackenzie, K., Sertich, J.** BIOSTRATIGRAPHY OF THE HIGH-ELEVATION DRY UNION FORMATION (MIOCENE–PLIOCENE) OF SOUTH CENTRAL COLORADO
- B86 **Blois, J. L., Brown, S. K., Hadly, E. A.** ASSESSING CROSS-CONTAMINATION IN ANCIENT DNA FROM TEMPERATE CAVE DEPOSITS
- B87 **Beck, C., Husley, D. B., Baghai-Riding, N. L., Blackwell, E.** PALEOCOMMUNITY OF LATE PLEISTOCENE MEGAFUNA FOUND ALONG THE LOWER MISSISSIPPI DELTA GRAVEL BARS
- B88 **Semprebon, G. M., Rivals, F., Prignano, L., Lozano, S.** A NEW APPROACH FOR ESTIMATING THE RELATIVE DURATION OF MORTALITY EVENTS OF LARGE HUNTED GAME AT ARCHAEOLOGICAL SITES USING ENAMEL MICROWEAR

- B89 **Feranec, R. S., Garcia, N., Arsuaga, J., Baquedano, E.** PALEOECOLOGY AND PALEOENVIRONMENT AT TWO LATE PLEISTOCENE NEANDERTHAL-BEARING SITES IN PINILLA DEL VALLE, SPAIN: STABLE ISOTOPE VALUES REVEAL NICHE CONSERVATISM
- B90 **Pérez-Crespo, V., Prado, J. L., Alberdi Alonso, M. T., Arroyo-Cabrales, J.** STABLE ISOTOPIC DIETS OF PLEISTOCENE HORSES FROM SOUTHERN NORTH AMERICA AND SOUTH AMERICA: SIMILARITIES AND DIFFERENCES
- B91 **Green, J. L., Desantis, L. G., Smith, G. J.** VARIATION IN THE BROWSING DIET OF PLEISTOCENE *MAMMUT AMERICANUM* (MAMMALIA, PROBOSCIDEA) AS RECORDED BY DENTAL MICROWEAR TEXTURE ANALYSIS
- B92 **Smith, G. J., Desantis, L.** PROBOSCIDEAN DIETARY VARIABILITY IN NORTH AMERICA AND THE COMPETITIVE EXCLUSION PRINCIPLE
- B93 **Dooley, A. C., Scott, E., McDonald, H.** MASTODONS OF UNUSUAL SIZE: HOW DISTINCTIVE ARE WESTERN SPECIMENS OF *MAMMUT AMERICANUM*?
- B94 **Leger, A. M., Agenbroad (Posthumous), L. D.** UTILIZING PROBOSCIDEAN CRANIAL METRICS FOR ANALYSIS OF REGIONAL VARIATION IN THE COLUMBIAN MAMMOTH (*MAMMUTHUS COLUMBI*)
- B95 **Lambert, W. D.** THE PHYLOGENETIC AFFINITIES OF THE SHOVEL-TUSKED GOMPHOTHERE *KONOBELODON* (MAMMALIA, PROBOSCIDEA): IS ITS SISTER GROUP *AMEBELODON* OR *PLATYBELODON*?
- B96 **Carranza-Castañeda, O.** THE GENUS *RHYNCHOTHERIUM* (MAMMALIA, PROBOSCIDEA) IN THE HEMPHILLIAN-BLANCAN (NALMA) OF CENTRAL MEXICO
- B97 **Jass, C. N., Barron-Ortiz, C. R.** A SYNOPSIS OF THE QUATERNARY PROBOSCIDEAN RECORD FROM ALBERTA, CANADA
- B98 **El Adli, J. J., Fisher, D. C., Vartanyan, S., Tikhonov, A.** LIFE HISTORY ANALYSES OF WOOLLY MAMMOTHS FROM WRANGEL ISLAND AND CHUKOTKA
- B99 **Maschenko, E. N., Potapova, O., Protopopov, A. V., Heinzman, P. D., Kapp, J. D., Cahill, J. A., Shapiro, B., Van Der Plicht, J., Pavlov, I., Kolesov, S.** A DISCOVERY OF A NEW SKELETON OF THE MAMMOTH (*MAMMUTHUS* SP.) FROM THE SARTANIAN DEPOSITS IN EASTERN SIBERIA, RUSSIA
- B100 **Potapova, O., Maschenko, E. N., Protopopov, A., Kienast, F., Rudaya, N., Kuzmina, S., Parkhaev, P. Y., Van Der Plicht, J., Galanin, A., Pavlov, I.** THE SARTANIAN BIODIVERSITY OF CENTRAL YAKUTIA, RUSSIA: THE ANALYSES OF THE NEW LATE PLEISTOCENE MEGIN SITE
- B101 **Protopopov, A. V., Potapova, O., Kharlamova, A., Boeskorov, G. G., Maschenko, E. N., Shapiro, B., Soares, A., Pavlov, I., Plotnikov, V., Klimovskii, A.** THE FROZEN CAVE LION (*PANTHERA SPELAEAE*) NEWBORN CUBS FROM EASTERN SIBERIA, RUSSIA: THE FIRST DATA ON EARLY ONTOGENY OF THE EXTINCT SPECIES
- B102 **Kantelis, T. M., Schubert, B. W.** MORPHOMETRIC ANALYSIS OF *URSUS ARCTOS* AND *U. AMERICANUS* MOLARS AS A DIAGNOSTIC TOOL
- B103 **Lynch, L. M.** *MARTES AMERICANA* IS SELECTIVE IN FOLLOWING THE RULES: A TEST OF BERGMANN'S AND ALLEN'S RULES
- B104 **Flora, G. W., Mackenzie, K.** GEOMETRIC MORPHOMETRIC ANALYSIS OF *MUSTELA* (MAMMALIA, CARNIVORA) FROM THE PLEISTOCENE (IRVINGTONIAN) OF PORCUPINE CAVE, COLORADO
- B105 **Jones, L. S., Moretti, J. A., Johnson E.** USING THREE DIMENSIONAL GEOMETRIC MORPHOMETRICS FOR THE IDENTIFICATION OF A *CANIS* SPP. AT A HISTORIC SITE IN WESTERN TEXAS
- B106 **Prassack, K. A.** A THIRD CANID FROM THE HAGERMAN FOSSIL BEDS (HAGERMAN FOSSIL BEDS NATIONAL MONUMENT), IDAHO, USA
- B107 **Therrien, F., Quinney, A., Tanaka, K., Zelenitsky, D.** DOES COMPUTED TOMOGRAPHY IMPROVE THE ACCURACY OF THE MANDIBULAR FORCE PROFILE METHOD FOR BITE FORCE ESTIMATION AND FEEDING BEHAVIOR RECONSTRUCTION IN EXTANT AND EXTINCT CARNIVORANS?
- B108 **Reuter, D. M., Hopkins, S. S.** QUANTIFYING INTRASPECIFIC VARIATION ACROSS THE TOOTH ROW IN CARNIVORANS (MAMMALIA, CARNIVORA)
- B109 **Werdelin, L.** PHYLOGENY OF SABERTOOTH FELIDS (CARNIVORA, FELIDAE, MACHAIRODONTINAE)
- B110 **Naples, V. L., Rothschild, B. M.** SEX IDENTIFICATION IN *SMILODON* AS EXTRAPOLATED FROM RECOGNIZED MARKERS IN CONTEMPORARY FELIDAE AND PRIMATES
- B111 **Reynolds, A. R., Evans, D. C.** A MULTI-ELEMENT HISTOLOGICAL ANALYSIS OF THE SABRE-TOOTHED CAT *SMILODON FATALIS* (FELIDAE, CARNIVORA)
- B112 **Gillette, D. D., Carranza, O. C.** INCREMENTAL GROWTH LINES IN TEETH OF THE NORTH AMERICAN GLYPTODONT *GLYPTOTHERIUM TEXANUM* (XENARTHRA, CINGULATA)
- B113 **Mcafee, R. K., Roth, A.** HERE AND GONE: EXPLANATIONS FOR THE VARIABLE ABSENCE OF THE ENTEPICONDYLAR FORAMEN IN SLOTHS (MAMMALIA, PILOSA)

- B114 **Beery, S. M., Mcafee, R. K.** EXPLORATION OF POST-CRANIAL SEXUAL DIMORPHISM IN LATE PLEISTOCENE FOSSIL SLOTHS (MAMMALIA, PILOSA) FROM THE GREATER ANTILLES
- B115 **Carrillo-Briceño, J. D., Amson, E., Zurita, A., Sánchez-Villagra, M. R.** A TAXONOMIC AND GEOGRAPHIC STUDY OF HERMANN KARSTEN'S XIX CENTURY PALEOVERTEBRATE COLLECTION FROM THE NORTHERN NEOTROPICS
- B116 **Kramer, M. A., Schubert, B. W.** NEW UNDERGROUND FINDINGS OF PLEISTOCENE AND HOLOCENE MAMMALS IN EXTREME NORTHEASTERN BRAZIL: FROM EXTENSIVE CAVE DEPOSITS TO POTENTIAL PALEO-BURROWS
- B117 **Aziz, A. A., Alava, K. A., Shockey, B. J.** NOTOUNGULATE MIDDLE EAR ANATOMY: PARADIGMS AND ANALOGUES
- B118 **Forasiepi, A. M., Macphee, R. D., Hernandez Del Pino, S., Schmidt, G., Amson, E., Grohe, C.** PALEOBIOLOGY OF *HUAYQUERIANA*, A LATE MIOCENE LITOPTERN FROM WESTERN ARGENTINA: INTERPRETING CONFLICTING SIGNALS FROM MORPHOLOGICAL ATTRIBUTES
- B119 **Carroll, B. R., Anaya, F., Croft, D. A.** FIRST DESCRIPTION OF AN ARTICULATED MANUS OF A HEGETOTHERIINE NOTOUNGULATE, BASED ON A SPECIMEN FROM THE MIDDLE MIOCENE OF QUEBRADA HONDA, BOLIVIA
- B120 **Alava, K. A., Aziz, A. A., Shockey, B. J.** RE-ASSOCIATION OF ISOLATED FEMORA OF SALLA, BOLIVIA (LATE OLIGOCENE): ADDITIONS TO KNOWLEDGE AND FUNCTIONAL HYPOTHESES
- B121 **Bethune, E., Kaiser, T. M., Winkler, D. E.** A MULTIPROXY APPROACH TO RECONSTRUCT THE PALEOECOLOGY OF PLEISTOCENE HIPPOPOTAMIDAE FROM THE MEDITERRANEAN ISLANDS (CETARTIODACTYLA, MAMMALIA)
- B122 **Lazagabaster, I. A., Rowan, J., Garello, D., Campisano, C., Arrowsmith, R., Reed, K. E.** FOSSIL ARTIODACTYLA (MAMMALIA) FROM MARKAYTOLI, A NEW MIDDLE PLEISTOCENE SITE IN THE LOWER AWASH VALLEY, ETHIOPIA
- B123 **Chainey, A. R., Davis, E. B., McLaughlin, W. N., Hopkins, S. S.** BRIDGING THE GAP BETWEEN ASIAN AND EUROPEAN FAUNA WITH THE GAZELLES OF THE CHU FORMATION IN THE KOCHKOR BASIN, KYRGYZSTAN
- B124 **Thompson, M. E., Ferguson, A., Bell, K. C.** USE OF MORPHOMETRIC ANALYSIS ON ASTRAGALI TO DIFFERENTIATE BISON SPECIES
- B125 **O'Donnell, K., Emery, M., Davis, E. B.** PAEDOMORPHISM IN MODERN CAMELIDS
- B126 **Woodruff, A. L., Schubert, B. W.** DESCRIPTION, TAPHONOMY, AND PALEOECOLOGY OF THE LATE PLEISTOCENE PECCARIES (ARTIODACTYLA, TAYASSUIDAE) FROM BAT CAVE, PULASKI COUNTY, MISSOURI
- B127 **Doughty, E. M., Wallace, S. C., Schubert, B. W.** THREE TAYASSUIDS FROM THE LATEST MIOCENE TO EARLIEST PLEISTOCENE (HEMPHILLIAN) GRAY FOSSIL SITE, TN
- B128 **Li, L., Dodson, P.** THE VARIATION OF THE VERTEBRAL CENTRA LENGTH AND EI IN SAUROPOD DINOSAUR—HOW TO BUILD A SAUROPOD
- B129 **Kosch, J. C., Sattler, F., Schwarz, D., Zanno, L. E.** A TRIGONOMETRY BASED METRIC TO DESCRIBE SAUROPOD DENTITIONS
- B130 **Saegusa, H., Ikeda, T.** SOME PECULIAR FEATURES OF *TAMBATITANIS AMICITIAE* (SAUROPODA, TITANOSAURIFORMS) REVEALED BY VIRTUAL SKELETAL RECONSTRUCTION.
- B131 **Royo-Torres, R., Upchurch, P., Kirkland, J. I., Deblieux, D., Foster, J., Cobos, A., Rey, G., Alcalá, L.** SYSTEMATICS OF A NEW SAUROPOD FROM THE BASAL YELLOW CAT MEMBER (EARLY CRETACEOUS) FROM DOELLING'S BOWL (EASTERN, UTAH, USA)
- B132 **Holmes, A. D., Britt, B. B., Chure, D. J., Wilson, J. A., Scheetz, R. D.** SEDIMENTOLOGY AND TAPHONOMY OF THE *ABYDOSAURUS MCINTOSHI* QUARRY, (CEDAR MOUNTAIN FORMATION, MUSSERTUCHIT MEMBER; EARLY CRETACEOUS, LATEST ALBIAN), DINOSAUR NATIONAL MONUMENT, UTAH.
- B133 **Carballido, J. L., Diego, P., Otero, A., Cerda, I., Salgado, L., Garrido, A., Ramezzani, J., Cúneo, N. R., Krause, M.** A NEW GIANT TITANOSAUR FROM THE LATE EARLY CRETACEOUS OF PATAGONIA YIELDS LIGHT INTO TITANOSAUR BODY SIZE EVOLUTION
- B134 **Ortega, F., Mocho, P., Páramo, A., Díez Díaz, V., Marcos-Fernández, F.** MORPHOLOGICAL AND LAMINAE PATTERN VARIATION IN THE DORSAL SERIES OF A NEW TITANOSAURIAN SPECIMEN FROM LO HUECO (CUENCA, SPAIN).
- B135 **González Riga, B. J., Lamanna, M. C., Ortiz David, L. D., Curry Rogers, K.** NEWLY DISCOVERED PEDS OF TITANOSAURIAN SAUROPOD DINOSAURS FROM ARGENTINA YIELD NOVEL DATA FOR PHYLOGENETIC ANALYSIS

- B136 **Shimizu, I., Chanthasit, P., Suteethorn, S., Sashida, K., Agematsu, S.** NEW SAUROPOD MATERIAL FROM THE EARLY CRETACEOUS OF THAILAND
- B137 **Voegele, K., Ullmann, P., Lamanna, M. C., Lacovara, K. J.** MYOLOGICAL RECONSTRUCTIONS FROM WELL-DEFINED APPENDICULAR MUSCLE SCARS IN *DREADNOUGHTUS SCHRANI*, A GIGANTIC TITANOSAURIAN SAUROPOD FROM PATAGONIA, ARGENTINA
- B138 **Kulik, Z., Curry Rogers, K.** OSTEOHISTOLOGY OF *RAPETOSAURUS KRAUSEI* (SAUROPODA, TITANOSAURIA) FROM THE LATE CRETACEOUS OF MADAGASCAR
- B139 **Ortiz David, L. D., González Riga, B. J., Mannion, P., Poropat, S. F., Coria, J. P.** NEW INFORMATION ON THE LATE CRETACEOUS ARGENTINEAN SAUROPOD DINOSAUR *MENDOZASAURUS* AND ITS IMPLICATIONS FOR BASAL TITANOSAUR RELATIONSHIPS
- B140 **De Bliex, D. D., Kirkland, J. I., Madsen, S. K., Hunt, G. J.** THE TAPHONOMY OF A MIRED SAUROPOD DINOSAUR AT DOELLING'S BOWL BONEBED IN THE EARLY CRETACEOUS CEDAR MOUNTAIN FORMATION, EASTERN UTAH
- B141 **Haia, B., Porter, K.** OVERALL BODY SIZE AS AN INDICATOR OF ONTOGENETIC STAGE IN SAUROPOD DINOSAURS
- B142 **Díez Díaz, V., Mallison, H., Schwarz, D.** HOW DID *GIRAFFATITAN* SHAKE ITS TAIL? STUDYING SAUROPOD BIOMECHANICS VIA 3D MODELING TECHNIQUES
- B143 **Chapelle, K. E., Choiniere, J. N.** THREE DIMENSIONAL MORPHOMETRIC ANALYSIS OF THE CRANIAL ONTOGENY OF *MASSOSPONDYLUS CARINATUS* BASED ON CT RECONSTRUCTIONS
- B144 **Wiersma, K., Canoville, A., Siber, H., Tschopp, E., Sander, M. P.** TESTING HYPOTHESES OF SKELETAL UNITY IN SAUROPOD REMAINS FROM THE HOWE-STEPHENS QUARRY (MORRISON FORMATION, WYOMING, USA) USING LONG BONE HISTOLOGY
- B145 **Mocho, P., Royo-Torres, R., Ortega, F.** EVOLUTIONARY HISTORY OF LATE JURASSIC SAUROPODS OF THE LUSITANIAN BASIN (PORTUGAL) AND PRESENTATION OF A NEW BASAL MACRONARIAN FORM
- B146 **Mchugh, J. B.** TOOTH REPLACEMENT IN A DIPLODOCOID SAUROPOD FROM THE UPPER JURASSIC MYGATT-MOORE QUARRY (MORRISON FORMATION) IN RABBIT VALLEY, COLORADO
- B147 **Dinter, C. M., Benson, R., McPhee, B. W., Choiniere, J. N.** NEW ASSOCIATED BASAL SAUROPODOMORPH MATERIAL FROM THE LATE TRIASSIC LOWER ELLIOT FORMATION, KAROO BASIN, EASTERN CAPE
- B148 **Holwerda, F. M., Rauhut, O. W., Furrer, H.** SAUROPODOMORPH DIVERSITY IN THE EUROPEAN TRIASSIC: A NEW SAUROPODIFORM FROM THE NORIAN-RHAETIAN OF SWITZERLAND
- B149 **Clayton, K. E., McPhee, B. W., Jinnah, Z., Choiniere, J. N.** PALEOENVIRONMENTS AND DEPOSITIONAL HISTORY OF THE SAUROPODOMORPH FAUNA FROM THE TRIASSIC-JURASSIC LEBOMBO-TSHIPISE BASIN OF SOUTH AFRICA
- B150 **Staunton, C. K., Choiniere, J. N.** THE EVOLUTION OF FORELIMB ARCHITECTURE IN EARLY SAUROPODOMORPHS
- B151 **Retallack, G. J.** TESTING THE WOODLAND HYPOTHESIS OF TETRAPOD ORIGINS IN POLAND AND GERMANY
- B152 **Fedak, T. J.** SIXTY YEARS OF CITIZEN SCIENCE: SIGNIFICANT DINOSAUR TRACKWAYS, CARBONIFEROUS FISH, INSECTS, AND AMPHIBIAN FOOTPRINTS FROM NOVA SCOTIA'S BAY OF FUNDY REGION.
- B153 **Mann, A., Maddin, H. C.** A RE-DESCRIPTION OF *AMPHIBAMUS GRANDICEPS* (TEMNOSPONDYLI, DISSOROPHOIDEA) FROM THE FRANCIS CREEK SHALE, MAZON CREEK, ILLINOIS
- B154 **Gren, J. A., Lindgren, J.** AN EXCEPTIONALLY PRESERVED AMPHIBIAN FROM THE PERMIAN SAAR-NAHE BASIN OF SOUTHWESTERN GERMANY: SOFT TISSUE PRESERVATION AND SKELETAL 3D IMAGING
- B155 **Herhold, H. W., Pettersson, C. B., Temple, D. P., Bakker, R. T., Castillo, J. C., Sparks, G., Steinhardt, S., Smalley, S. S., Flis, C. J., Bell, T. H.** MORPHOMETRIC ANALYSIS OF A MASS ASSEMBLAGE OF *TRIMERORHACHIS* (AMPHIBIA, TEMNOSPONDYLI) FROM THE ARROYO FORMATION, LOWER CLEAR FORK
- B156 **Sengupta, D. P.** NICHE SHARING AMONG EARLY TRIASSIC TEMNOSPONDYL AMPHIBIANS OF EASTERN INDIA
- B157 **Chakravorti, S., Sengupta, D. P.** A TALE OF TWO TEMNOSPONDYL-DOMINATED FAUNAL ASSEMBLAGES FROM THE MIDDLE TRIASSIC OF CENTRAL INDIA
- B158 **Gee, B., Soler, J., Parker, W.** DESCRIPTION OF MATERIAL FROM A POTENTIAL NEW SPECIES OF METOPOSAUR FROM THE PETRIFIED FOREST NATIONAL PARK, AZ, USA
- B159 **Hirayama, R., Nakajima, Y.** IS *EUNOTOSAURUS AFRICANUS* REALLY ANCESTRAL TO TURTLES?
- B160 **Liu, J., Bever, G. S., Li, L.** THE TETRAPOD FAUNA OF THE UPPER PERMIAN NAOBAOGOU FORMATION OF DAQINGSHANG, INNER MONGOLIA, CHINA

- B161 **Suarez, C. A., Knobbe, T., Milner, A. R., Kirkland, J. I., Crowley, J.** IDENTIFYING THE END TRIASSIC EXTINCTION IN THE MOENAVE FORMATION, UTAH USING C-ISOTOPE CHEMOSTRATIGRAPHY, DETRITAL ZIRCON GEOCHRONOLOGY, AND BIOSTRATIGRAPHY.
- B162 **Shumway, J., Britt, B. B., Chure, D. J., Engelmann, G. F., Scheetz, R. D., Hood, S., Chambers, M.** FACIES ANALYSIS AND DEPOSITIONAL ENVIRONMENTS OF THE SAINTS & SINNERS QUARRY (SSQ) IN THE LOWER NUGGET SANDSTONE (LATE TRIASSIC) OF NORTHEASTERN UTAH SHOW THAT THE DIVERSE VERTEBRATE ASSEMBLAGE WAS PRESERVED IN A LACUSTRINE INTERDUNAL ENVIRONMENT
- B163 **Engelmann, G. F., Chure, D. J., Easterday, M.** DOCUMENTING AN EXTENSIVE TRACKSITE IN THE LATE TRIASSIC–EARLY JURASSIC NUGGET SANDSTONE AT DINOSAUR NATIONAL MONUMENT USING GIGAPAN LARGE PANORAMAS AND PHOTOGRAMMETRY
- B164 **Carrasco, D., Falkingham, P. L., Gatesy, S. M.** FOOT MORPHOLOGY OR EXIT FEATURE: A CT PERSPECTIVE ON HITCHCOCK'S DINOSAUR TRACKS
- B165 **Tucker, R. T., Rademan, Z., Klausen, M. B.** POMPEII-LIKE FLORAL FOSSILS IN THE KRUGER NATIONAL PARK: PALAEOENVIRONMENTAL AND STRATIGRAPHIC CONTEXT FOR NEWLY DISCOVERED ASSEMBLAGES ALONG THE LETABA RIVER, SOUTH AFRICA
- B166 **Parraga, J., Bernard, E., Brewer, P., Ward, D. J., Wills, S.** A DIVERSE NEW LATE BATHONIAN MICROVERTEBRATE ASSEMBLAGE FROM WOODEATON QUARRY, OXFORDSHIRE, UK
- B167 **Cobos, A., Royo-Torres, R., Alcalá, L., Loewen, M., Kirkland, J. I.** DINOSAURS AS BIOCHRONOLOGICAL MARKERS IN THE EUROPEAN TITHONIAN–BERRIASIAN TRANSITION
- B168 **Wolfe, D. G., Wolfe, H. D.** TRACKWAY EVIDENCE FOR A THEROPOD GROUP ATTACK UPON A POSSIBLE CERATOPSIDIAN DINOSAUR FROM THE MORENO HILL FORMATION (TURONIAN) NEW MEXICO
- B169 **Avrahami, H. M., Humphrey, J. S., Heckert, A. B., Gates, T., Makovicky, P. J., Zanno, L. E.** THE EARLY LATE CRETACEOUS PALEOFAUNAL VERTEBRATE ASSEMBLAGE OF THE CLIFFS OF INSANITY MICROSITE IN THE MUSSERTUCHIT MEMBER OF THE CEDAR MOUNTAIN FORMATION, UTAH
- B170 **Bamforth, E. L., Tokaryk, T.** EXPLORING THE CENOMANIAN AND TURONIAN (92–98 MA) SEAS OF SASKATCHEWAN, CANADA
- B171 **Pérez-García, A., Bardet, N., Barroso-Barcenilla, F., Cambra-Moo, O., Mocho, P., Narváez, I., Ortega, F., Segura, M., Torices, A.** THE FAUNA OF REPTILES FROM THE CENOMANIAN OF ALGORA (GUADALAJARA, SPAIN): SYSTEMATIC AND PALEOBIOGEOGRAPHIC IMPLICATIONS
- B172 **Carvalho, N., Evans, D. C.** THE VERTEBRATE ASSEMBLAGE OF THE MADSEN BONE BED, LOWER JUDITH RIVER FORMATION (MCCLELLAND FERRY MEMBER, CAMPANIAN), NORTH-CENTRAL MONTANA
- B173 **Crane, C. D.** THE CAMPANIAN OF BLADEN COUNTY, NORTH CAROLINA: REASSESSMENT OF THE VERTEBRATE FAUNA OF PHOEBUS LANDING AND COMPARISON WITH THAT OF ELIZABETHTOWN
- B174 **El Dawoudi, I. A., O'Connor, P. M., Kora, M. A., Sallam, H. M., Sertich, J.** NEW DINOSAUR REMAINS FROM THE CAMPANIAN QUSEIR FORMATION, WESTERN DESERT, EGYPT
- B175 **Cullen, T. M., Longstaffe, F. J., Evans, D. C.** AN INTENSIVE MULTI-TAXIC STABLE CARBON AND OXYGEN ISOTOPIC ANALYSIS OF VERTEBRATES FROM A MICROSITE IN THE OLDMAN FORMATION (LATE CRETACEOUS) OF ALBERTA
- B176 **Yamamura, D., Suarez, C. A.** INVESTIGATING VERTEBRATE PALEOECOLOGY OF THE KAIPAROWITS FORMATION VIA STABLE ISOTOPIC COMPOSITION OF SKELETAL REMAINS
- B177 **King, L. R.** MICROVERTEBRATES OF THE LANCE CREEK FORMATION IN EASTERN WYOMING: A COMPREHENSIVE HISTORY OF THE LAST 70 YEARS
- B178 **Katsura, Y., Demar, D. G., Wilson, G. P.** THE YOUNGEST NORTH AMERICAN OCCURRENCE OF A BASAL CHORISTODERE (REPTILIA, CHORISTODERA) FROM THE UPPER CRETACEOUS (MAASTRICHTIAN) HELL CREEK FORMATION, NORTHEASTERN MONTANA, USA
- B179 **Sullivan, R. M., Lucas, S., Lichtig, A., Dalman, S., Jasinski, S. E.** A CRITIQUE OF LATE CRETACEOUS DINOSAUR BIOGEOGRAPHY AND ENDEMISM IN THE WESTERN INTERIOR BASIN, NORTH AMERICA
- B180 **Fowler, D. W., Horner, J. R.** THE EVOLUTIONARY PROCESS OF REINFORCEMENT RECONCILES CONFLICTING FUNCTIONAL HYPOTHESES FOR BIZARRE STRUCTURES IN NORTH AMERICAN LATE CRETACEOUS DINOSAURS, EXPLAINS APPARENT ENDEMISM AS AN ARTIFACT OF VICARIANCE AND ANAGENESIS, AND SUGGESTS PRE K–PG DIVERSITY PATTERNS MAY BE PECULIAR TO NORTH AMERICA
- B181 **Lloyd, G. T., Bapst, D., Friedman, M., Davis, K. E.** A PHYLOGENETIC ALTERNATIVE TO RICHNESS AS A BIODIVERSITY METRIC SUGGESTS A MID-CRETACEOUS PEAK FOR MESOZOIC DINOSAURS

THURSDAY MORNING, OCTOBER 27, 2016
ROMER PRIZE SESSION
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATOR: Mark Uhen

- 8:00 **Chen, D.** THE ORIGIN OF TOOTH REPLACEMENT: 3D SYNCHROTRON HISTOLOGY VISUALIZES THE DENTAL ONTOGENY OF THE SILURIAN STEM OSTEICHTHYANS
- 8:15 **Tennant, J. P.** A HIDDEN EXTINCTION IN TETRAPODS AT THE JURASSIC–CRETACEOUS BOUNDARY
- 8:30 **Lemberg, J. B.** EVOLUTION OF A TERRESTRIAL-STYLE FEEDING SYSTEM IN WATER: *TIKTAALIK ROSEAE* AND *ATRACTOSTEUS SPATULA*
- 8:45 **Chen, J.** EAST ASIA IN THE EVOLUTION OF AMPHIBIANS IN THE MESOZOIC AND CENOZOIC: INFERRED FROM FOSSILS, MORPHOLOGY, AND MOLECULES
- 9:00 **Watanabe, A.** MODULAR DEVELOPMENT AND EVOLUTION OF THE THEROPOD BRAIN
- 9:15 **Salas-Gismondi, R.** THE EVOLUTION OF ORBITAL SHAPE IN GAVIALOID CROCODYLIANS IS ASSOCIATED WITH HABITATS AND VISUAL-FORAGING STRATEGIES
- 9:30 **Morhardt, A. C.** PALEONEUROLOGY OF ARCHOSAURS IN THE 21ST CENTURY: NEW ANATOMICAL AND STATISTICAL APPROACHES SHED LIGHT ON THE COMPLEX EVOLUTIONARY HISTORY OF NON-AVIAN DINOSAUR BRAINS
- 9:45 **Field, D.** MACROEVOLUTIONARY PATTERNS IN TOTAL-CLADE AVIALAE: THE COMPLEX EVOLUTION OF AVIAN BIOGEOGRAPHY, AND THE ORIGIN OF AVIAN FLIGHT
- 10:00 **BREAK**
- 10:15 **Carney, R. M.** EVOLUTION OF THE ARCHOSAURIAN SHOULDER JOINT AND THE FLIGHT STROKE OF *ARCHAEOPTERYX*
- 10:30 **Couzens, A.** THICK MOLAR ENAMEL AND INCREASED CROWN HEIGHT AS AN ADAPTIVE SIGNATURE OF NEOGENE ARIDIFICATION AMONGST KANGAROOS
- 10:45 **O'Brien, H. D.** THE ROLE OF CRANIAL VASCULATURE IN ARTIODACTYL MACROEVOLUTION: SELECTIVE BRAIN COOLING AS A VITAL PREREQUISITE FOR FOREGUT FERMENTATION
- 11:00 **Barron-Ortiz, C. R.** THE END-PLEISTOCENE EXTINCTION IN NORTH AMERICA: AN INVESTIGATION OF HORSE AND BISON FOSSIL MATERIAL AND ITS IMPLICATION FOR NUTRITIONALLY-BASED EXTINCTION MODELS
- 11:15 **Smiley, T. M.** MOUNTAINS AND MAMMALS: LINKING LANDSCAPE AND CLIMATE CHANGE TO DIVERSIFICATION IN NEOGENE RODENTS
- 11:30 **Bertrand, O.** VIRTUAL ENDOCASTS FOR ISCHYROMYIDAE AND SCIURIDAE: BRAIN EVOLUTION IN RODENTIA AND A DEEPER UNDERSTANDING OF THE ANCESTRAL CONDITION FOR THE BRAIN OF EUARCHONTOGLIRES
- 11:45 **Davis, M.** WHAT NORTH AMERICA'S SKELETON CREW OF MEGAFAUNA TELLS US ABOUT COMMUNITY DISASSEMBLY
- 12:00 **Chritz, K. L.** PALEOECOLOGICAL RESPONSE TO CLIMATE IN EAST AFRICA IS LOCALLY SPECIFIC

THURSDAY MORNING, OCTOBER 27, 2016
PREPARATOR'S SESSION
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Steve Jabo and Matt Smith

- 8:00 **Bugbee, M., Wilkins, W. J., Mead, J. I.** REMOVAL OF A COLUMBIAN MAMMOTH SKULL FROM AN IN-SITU BONEBED
- 8:15 **Sawchuk, M. R., Barron-Ortiz, C. R., Li, C., Jass, C. N.** A COMPARISON OF FOUR DRYING TECHNIQUES FOR THE CONSERVATION OF WATER-SATURATED BONE REMAINS FROM COLD LAKE, ALBERTA, CANADA
- 8:30 **Kline, P., Kline, M., Osen, A.** PALEONTOLOGY LABORATORY EQUIPMENT, MATERIAL, AND METHODS FOR UTILIZING ULTRAVIOLET LIGHT IN FOSSIL PREPARATION
- 8:45 **Balcarcel, A.** REPAIRING THE TITANS: CHALLENGES AND CONSIDERATIONS FOR DEALING WITH SAUROPOD BONES
- 9:00 **Heck, C. T., Volkmann, G.** POLYESTER OR EPOXY: ASSESSING PRODUCT EFFICACY IN PALEOHISTOLOGICAL METHODS
- 9:15 **Smith, M. E., Lash, C. E.** CUTTING BONE—A CREATIVE USE OF CYCLODODECANE (CDD) IN HISTOLOGIC SECTIONING OF FOSSIL SPECIMENS

- 9:30 **Browne, I. D.** PRECISION, ACCURACY, AND REPRODUCIBILITY OF RESEARCH-QUALITY PHOTOGRAMMETRIC MODELS OF VERTEBRATE MICROFOSSILS IN THE 0.5–2 MM SIZE RANGE
- 9:45 **Santella, M., Milner, A. R.** PHOTOGRAMMETRY OF MICROFOSSIL VERTEBRATE TEETH FROM THE LOWER JURASSIC KAYENTA FORMATION OF SOUTHWESTERN UTAH
- 10:00 **BREAK**
- 10:15 **Mallison, H., Belvedere, M., Schurian, B., Schwarz, D.** "LIBERATION FROM THE BONE CELLAR"—LOW TECH, HIGH QUALITY—HOW TO CHEAPLY 3D DIGITIZE A COLLECTION OF VERTEBRATE MACROFOSSILS
- 10:30 **Pruitt, J. B., Clement, N., Druckenmiller, P. S., Serratos, D., Havens, J.** DIGITAL RECONSTRUCTION OF A HEAVILY TAPHONOMICALLY ALTERED PLESIOSAURIAN SKULL UTILIZING LASER SCAN DATA AND NOVEL 3D MODELLING TECHNIQUES
- 10:45 **Shelburne, E. C., Thompson, A. C.** WHEN THE SMOKE CLEARS: A DISCUSSION ON FOSSIL WHITENING AND AN EVALUATION OF CLEANING METHODS FOR SPECIMENS SMOKED WITH AMMONIUM CHLORIDE
- 11:00 **Bernard, E. L., Brewer, P., Stevens, L., Chapman, S., Steel, L.** EMESOZOIC: BRITISH FOSSILS IN THE DIGITAL AGE
- 11:15 **Miles, K., Porter, M.** PROJECT AIRLESS: A LARGE-SCALE CROSS-DISCIPLINE PROJECT TO PROTECT FOSSILS FROM PYRITE DECAY THROUGH THE USE OF ANOXIC MICROENVIRONMENTS
- 11:30 **Brown, M., Parker, W.** PREPARATION AS INTERPRETATION IN THE STUDY OF FOSSIL VERTEBRATES
- 11:45 **Barnett, J. R.** FOSSIL PREPARATION IN A SMALL LAB: A CASE STUDY OF PREPARATOR TRAINING AT THE STERNBERG MUSEUM OF NATURAL HISTORY IN HAYS, KANSAS
- 12:00 **Getty, M. A., Loewen, M. A.** PALEONTOLOGICAL EXHIBITS AT THE NATURAL HISTORY MUSEUM OF UTAH: AN OUTSTANDING EXAMPLE OF COLLABORATION WITH MUSEUM STAFF, VOLUNTEERS, GRADUATE STUDENTS, AND EXTERNAL INSTITUTIONS

THURSDAY MORNING, OCTOBER 27, 2016
TECHNICAL SESSION VI
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Julie Meachen and Morgan Turner

- 8:00 **Randau, M., Goswami, A.** PATTERNS OF FELID PRESACRAL VERTEBRAL ORGANISATION SHOW MORPHOLOGICAL INTEGRATION AND DEVELOPMENTAL MODULARITY
- 8:15 **Balisi, M., Van Valkenburgh, B.** HYPERCARNIVORY AND EXTINCTION RISK IN NORTH AMERICAN FOSSIL CANIDS
- 8:30 **Prybyla, A. N., Tseng, Z., Flynn, J. J.** CRANIAL BIOMECHANICS OF *LEPTARCTUS PRIMUS* (LEPTARCTINAE, CARNIVORA) AND FUNCTIONAL MORPHOLOGICAL ANALYSIS OF *L. PRIMUS* AND *HYPSPARIA BOZEMANENSIS* USING FINITE ELEMENT SIMULATIONS
- 8:45 **Boessenecker, R. W., Deméré, T. A., Churchill, M.** THE LAST OF THE DESMATOPHOCID SEALS: A NEW SPECIES OF *ALLODESMUS* FROM THE LATE MIOCENE OF WASHINGTON AND CALIFORNIA
- 9:00 **Wang, X., Grohé, C., White, S., Ji, X., Kelley, J., Jablonski, N. G., Su, D. F., Deng, T., You, Y., Yang, X.** A NEW BADGER-LIKE GIANT OTTER (LUTRINAE, MUSTELIDAE) FROM THE LATEST MIOCENE SITE OF SHUITANGBA IN YUNNAN PROVINCE, SOUTHWESTERN CHINA AND A TOTAL EVIDENCE PHYLOGENY SUGGESTING A PREVIOUSLY UNRECOGNIZED CLADE OF OTTERS IN EASTERN ASIA
- 9:15 **O'Keefe, F., Meachen, J.** QUANTITATIVE ASSESEMENT OF CURRENT PIT CHRONOLOGY AT RANCHO LA BREA AND PROSPECTS FOR ITS IMPROVMENT
- 9:30 **Meachen, J., Brannick, A.** A 30-YEAR CASE OF MISTAKEN IDENTITY: THE WOLVES FROM NATURAL TRAP CAVE, WYOMING
- 9:45 **Montanari, S., Secord, R., Brusatte, S., Williamson, T. E.** STABLE ISOTOPE VARIABILITY IN EXTANT AND EXTINCT FAUNIVORES: IMPLICATIONS FOR UNDERSTANDING NON-HERBIVOROUS MAMMALIAN ECOLOGY ACROSS TIME SCALES
- 10:00 **BREAK**
- 10:15 **Wills, S., Barrett, P. M., Choiniere, J. N.** PREDICTION OF POTENTIAL FOSSIL-BEARING LOCALITIES IN THE ELLIOT FORMATION (UPPER TRIASSIC–LOWER JURASSIC), SOUTH AFRICA
- 10:30 **Moore, J. R., Weissmann, G.** VERTEBRATE PALEONTOLOGY AND TAPHONOMY IN A DISTRIBUTIVE FLUVIAL SYSTEM FRAMEWORK: A NEW MODEL FOR STUDYING TERRESTRIAL FOSSIL SEQUENCES
- 10:45 **Carpenter, K.** AFTER THE BONE MOVES: ACTUALISTIC EXPERIMENTS AND COMPUTATIONAL FLUID DYNAMICS ON STATIONARY BONE IN A WATER FLUME
- 11:00 **Bader, K. S., Lundelius, E. L.** MODERN DERMESTID BEETLE TRACES IN BONE AND THEIR COMPARISON TO TRACES ON LATE PLEISTOCENE BONE FROM LAUBACH CAVE, WILLIAMSON COUNTY, TEXAS, USA

- 11:15 **Saitta, E. T., Rogers, C., Vinther, J.** THE TAPHONOMY OF KERATIN IN ARCHOSAURS
- 11:30 **Roy, A., Rogers, C. S., Vinther, J.** BACTERIA OR MELANOSOMES?
- 11:45 **Turner, M. L., Falkingham, P. L., Gatesy, S. M.** THE MORPHOLOGY OF MOTION IN SUB-SURFACE FOOT TRAJECTORIES AND FOSSIL DINOSAUR TRACKS
- 12:00 **Lallensack, J. N.** AN OBJECTIVE METHOD FOR THE GENERATION OF FOOTPRINT OUTLINES

THURSDAY AFTERNOON, OCTOBER 27, 2016
TECHNICAL SESSION VII
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATORS: Victoria Arbour and Mateusz Wosik

- 1:45 **Brown, C. M.** QUANTIFYING INTRASPECIFIC MORPHOMETRIC VARIATION IN PUTATIVE DISPLAY STRUCTURES IN ORNITHISCHIAN DINOSAURS
- 2:00 **Evans, D. C., Williamson, T. E., Goodwin, M. B., Loewen, M.** NEW *STEGOCERAS*-GRADE PACHYCEPHALOSAURS (ORNITHISCHIA) REVEAL A LATE CAMPANIAN OF RADIATION OF DOME-HEADED DINOSAURS IN SOUTHERN LARAMIDIA
- 2:15 **Goodwin, M. B., Nirody, J. A., Huynh, T., Horner, J. R., Parkinson, D. Y., Schott, R. C., Evans, D. C.** MAPPING AND VISUALIZING THE COMPLEX INTERNAL ANATOMY OF PACHYCEPHALOSAUR DOMES
- 2:30 **Hobe, S. J.** ANAGENESIS AND CRANIOFACIAL ONTOGENY OF *CORYTHOSAURUS*
- 2:45 **Freedman Fowler, E. A., Horner, J. R.** ONE DINOSAUR IS NOT ENOUGH: *GRYPOSAURUS* (HADROSAURIDAE) BONEBED ILLUSTRATES MULTIPLE NON-PHYLOGENETIC SOURCES OF MORPHOLOGICAL DIFFERENCES
- 3:00 **Wosik, M., Goodwin, M. B., Evans, D. C.** A NESTLING-SIZED SKELETON OF *EDMONTOSAURUS* (ORNITHISCHIA, HADROSAURIDAE) WITH AN ANALYSIS OF ONTOGENETIC LIMB ALLOMETRY IN RELATION TO MAJOR GAIT SHIFTS
- 3:15 **Norman, D., Brasier, M., Liu, A., Garwood, R., Antcliff, J., Wacey, D.** REMARKABLE PRESERVATION OF BRAIN TISSUES IN AN EARLY CRETACEOUS IGUANODONTIAN DINOSAUR
- 3:30 **Erickson, G. M., Kuhn-Hendricks, S. M., Sidebottom, M. A., Curry, J. F., Zeng, G., Norell, M. A., Krick, B. A.** WAVY ENAMEL IN HADROSAURID DINOSAURS WITH GRINDING DENTITIONS FUNCTIONED TO LIMIT FRACTURE DAMAGE THROUGH ENERGY-ROBBING CRACK DEFLECTION AND CHANNELING
- 3:45 **Wiersma, J. P.** THE BIOGEOGRAPHY OF LATE CRETACEOUS ANKYLOSAURID DINOSAURS: IMPLICATIONS FOR ANKYLOSAURID DIVERSITY IN WESTERN NORTH AMERICA
- 4:00 **Arbour, V., Zanno, L. E.** CORRELATIONS AND CONGRUENCE IN THE STEPWISE EVOLUTION OF AMNIOTE TAIL WEAPONRY

THURSDAY AFTERNOON, OCTOBER 27, 2016
TECHNICAL SESSION VIII
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Sergi Lopez Torres and Paul Morse

- 1:45 **Wilson, G. P., Widdowson, M., Anantharaman, S., Das Sarma, D. C., Wilson, J. A., Renne, P. R.** NEW MAMMALIAN FOSSILS FROM THE INTERTRAPPEAN BEDS OF THE SOUTHERN PART OF THE DECCAN VOLCANIC PROVINCE AND THE CRETACEOUS–PALEOGENE TRANSITION IN INDIA
- 2:00 **López-Torres, S., Prufrock, K. A., Selig, K. R., Silcox, M. T.** DENTAL TOPOGRAPHIC ANALYSIS OF PAROMOMYID (PLESIADAPIFORMES, PRIMATES) CHEEK TEETH: MORE THAN 15 MILLION YEARS OF CHANGING SURFACES AND SHIFTING ECOLOGIES
- 2:15 **Morse, P. E., Chester, S. G., Boyer, D. M., Bloch, J. I.** MORPHOLOGICAL VARIATION IN THE OLDEST NORTH AMERICAN EUPRIMATE, *TEILHARDINA BRANDTI*, AND ITS IMPLICATIONS FOR EARLY PRIMATE EVOLUTION
- 2:30 **Rankin, B. D., Holroyd, P. A.** DIVERSIFICATION OF A NEWLY IDENTIFIED CLADE OF EARLY EOCENE OMOMYIDS FROM THE GREATER GREEN RIVER BASIN
- 2:45 **Hoffman, E., Upham, N., Fabbri, M., Field, D., Hanson, M., Mongiardino Koch, N., Leiss, A., Miyamae, J. A., Whalen, C. D., Bhullar, B. S.** RECONSTRUCTING THE BEHAVIOR AND ECOLOGY OF THE ANCESTRAL PRIMATE AND FOSSIL TAXA USING COMPARATIVE PHYLOGENETIC TECHNIQUES
- 3:00 **Garrett, E. C., Gonzales, L. A., Kirk, E. C., Seiffert, E. R.** THE VOMERONASAL GROOVE IN FOSSIL PRIMATES
- 3:15 **Fox, D. L., Cicak, T. S., Badgley, C.** ECOLOGICAL BIOGEOGRAPHY OF MODERN NORTH AMERICAN RODENTS IN RELATION TO CLIMATE AND PHYSIOGRAPHY
- 3:30 **Burroughs, R. W.** USE OF AUTOMATED THREE-DIMENSIONAL MORPHOMETRICS TO DETECT TAPHONOMIC BIAS: FOSSIL ARVICOLINE RODENT TEETH AS A CASE STUDY

- 3:45 **Casanovas-Vilar, I., Fortuny, J., Ll  cer, S., Prieto, J., Garcia-Porta, J., Robles, J. M., Alba, D. M.** FIRST COMPLETE SKULL OF A FOSSIL FLYING SQUIRREL FROM THE MIOCENE OF CATALONIA
- 4:00 **Marcy, A. E., Sherratt, E., Hadly, E. A., Weisbecker, V. E.** GETTING A HEAD IN HARD SOIL: CONVERGENT AND DIVERGENT CRANIAL ALLOMETRIC TRAJECTORIES REFLECT MOSAIC EVOLUTION IN THE HIGHLY MORPHOLOGICALLY DIVERSE RODENT GENUS *THOMOMYS*

THURSDAY AFTERNOON, OCTOBER 27, 2016
TECHNICAL SESSION IX
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Per Ahlberg and Richard Blob

- 1:45 **Ahlberg, P. E., Zhu, Y., Zhu, M.** NEW LIGHT ON THE EXTRAORDINARY EYES OF MAXILLATE PLACODERMS
- 2:00 **Zhu, M.** SILURIAN PLACODERMS FROM THE XIAOXIANG FAUNA REVEAL HIGH MORPHOLOGICAL DISPARITY CLOSE TO CROWN GNATHOSTOMES
- 2:15 **Pan, Z., Zhu, M.** EUANTIARCH PLACODERMS FROM THE EMSIAN (LOWER DEVONIAN) OF WUDING, YUNNAN, CHINA
- 2:30 **Zhu, Y., Ahlberg, P. E., Snitting, D., Blom, H., Hu, Y.** REANALYSIS OF SERIAL GRINDING DATA SHEDS LIGHT ON THE EVOLUTION OF THE NEUROCRANIUM IN PRIMITIVE JAWED VERTEBRATES
- 2:45 **Scott, B.** THE LIMITATIONS OF GAPE-BASED SUCTION MECHANICS IN ARTHRODIRA (PLACODERMI)
- 3:00 **Lu, J., Giles, S., Friedman, M., Zhu, M.** THE FIRST STEM-SARCOPTERYGIAN FROM THE PRAGIAN OF SOUTH CHINA HIGHLIGHTS THE EARLY EVOLUTION OF SARCOPTERYGIANS
- 3:15 **Cloutier, R., Long, J. A., King, B., B  chard, I., Clement, A.** RATES OF PHENOTYPIC EVOLUTION DURING THE FISH TO TETRAPOD TRANSITION: THE ELPISTOSTEGALIAN FAST-LANE
- 3:30 **Wilhelm, B.** EXAMINATION OF CHANGES TO THE PECTORAL MUSCULATURE ACROSS THE FIN-LIMB TRANSITION USING EXTANT FISHES
- 3:45 **Blob, R. W., Mcinroe, B., Astley, H. C., Gong, C., Kawano, S. M., Schiebel, P. E., Rieser, J., Choset, H., Goldman, D. I.** MODELING THE VERTEBRATE INVASION OF LAND: TAIL USE IMPROVES TERRESTRIAL LOCOMOTOR PERFORMANCE ON SOFT SUBSTRATES
- 4:00 **Maciver, M. A., Schmitz, L.** A DOUBLING OF EYE SIZE AND MASSIVE INCREASE IN VISUAL RANGE ENABLED COMPLEX VISUALLY-GUIDED BEHAVIORS IN EARLY DIGITED TETRAPODS

THURSDAY, OCTOBER 27, 2016
POSTER SESSION II
GRAND AMERICA HOTEL, IMPERIAL BALLROOM FOYER
Authors must be present from 4:15 – 6:15 p.m.
Posters must be removed by 6:30 p.m.

Posters Associated with the Preparator's session

- IB1 **Minnebo, A., Rountrey, A., Sanders, W. J.** THINKING INSIDE THE BOX: CONSTRUCTION OF INEXPENSIVE, LIGHTWEIGHT STORAGE CONTAINERS FOR MEDIUM-SIZED FOSSIL SPECIMENS
- IB2 **Sato, T.** PILING, SLOTTING, AND SURROUNDING: SHIPPING FOSSILS FROM CHINA TO ITALY
- IB3 **Behlke, A.** THE USE OF RECYCLED MATERIALS IN THE MOLDING AND CASTING PROCESS
- IB4 **Schulp, A. S., Van Liere, R., Batenburg, K. J.** TRANSPARENT MATRIX: BRINGING X-RAY GOGGLES TO THE PREP LAB
- IB5 **Ridgwell, N. M., Chure, D. J.** LONG-TERM PRESERVATION CHALLENGES IN THE CARNEGIE QUARRY, DINOSAUR NATIONAL MONUMENT, UTAH, USA
- IB6 **Carrio, V.** TETRAPOD WORLD: EARLY EVOLUTION AND DIVERSIFICATION (TW:EED) PROJECT FIELDWORK: CONSOLIDATION OF DAMP SPECIMENS FOR TRANSPORTATION USING PRIMAL WS 24 AND FABRIC BANDAGES AS FIELD JACKETS
- IB7 **Knauss, G., Johnson, S. L.** A FALL DINOSAUR EXCAVATION: INSIGHTS ON COLD WEATHER JACKETING

THURSDAY, OCTOBER 27, 2016
POSTER SESSION II (CONTINUED)

EXHIBIT HALL, GRAND BALLROOM

Regular Session Posters

- B76 **Afanassieva, O. B.** MODELS OF THE DEVELOPMENT OF THE EXOSKELETON IN EARLY VERTEBRATES (OSTEOSTRACI, AGNATHA)

- B77 **Elliott, D. K.** A NEW AGNATHAN SUBFAMILY (HETEROSTRACI, CYATHASPIDIDAE) FROM THE LATE SILURIAN AND EARLY DEVONIAN OF THE WESTERN UNITED STATES AND THE CANADIAN ARCTIC
- B78 **Gai, Z., Yu, X., Zhu, M.** THE DEEP HOMOLOGY OF THE ZYGOMA
- B79 **Boyle, J. T., Ryan, M. J., Snively, E., Hlavin, W. J.** JAW ONTOGENY OF THE LATE DEVONIAN "*T. REX*", WITH IMPLICATIONS FOR FEEDING STRATEGIES AND LIFE HISTORY OF THE ARTHRODIRE *DUNKLEOSTEUS TERRELLI*
- B80 **Hall, L. E., Ryan, M. J., Scott, E.** POSSIBLE EVIDENCE FOR CANNIBALISM IN THE GIANT ARTHRODIRE *DUNKLEOSTEUS*, THE APEX PREDATOR OF THE CLEVELAND SHALE MEMBER (FAMMENIAN) OF THE OHIO SHALE
- B81 **Richter, M., Smith, R. M., Cisneros, J. C., Angielczyk, K. D., Fröbisch, J., Marsicano, C. A., Kammerer, C. F.** NEW LOWER PERMIAN (CISURALIAN) ACTINOPTERYGIANS (OSTEICHTHYES) FROM THE PEDRA DO FOGO FORMATION, NORTHEAST BRAZIL
- B82 **Choo, B., Long, J. A., Lu, J., Giles, S.** A NEW ACTINOPTERYGIAN FISH FROM THE UPPER DEVONIAN GOGO FORMATION OF WESTERN AUSTRALIA.
- B83 **Gibson, S. Z.** THREE-DIMENSIONAL FISH FOSSILS FROM A TRIASSIC TEXAS POND: NOVEL ANATOMICAL INSIGHTS AND SYSTEMATIC PLACEMENT OF A NEW SPECIES OF REDFIELDIID FISH (OSTEICHTHYES, ACTINOPTERYGII)
- B84 **Hunt-Foster, R. K., Foster, J., Kirkland, J. I.** FIRST REPORT OF THE GIANT ICHTHYODECTID *XIPHACTINUS AUDAX* FROM THE MANCOS SHALE (CAMPANIAN) OF WESTERN COLORADO
- B85 **Brinkman, D. B., Murray, A. M., Newbrey, M., Neuman, A. G.** ARTICULATED TELEOST FISH FROM THE PISCES POINT LOCALITY, LATE CRETACEOUS, SCOLLARD FORMATION, ALBERTA, CANADA, AND THE IDENTIFICATION OF ISOLATED ELEMENTS FROM VERTEBRATE MICROFOSSIL LOCALITIES
- B86 **Murray, A. M., Grieve, K., Zaim, Y., Rizal, Y., Aswan, A., Gunnell, G. F., Ciochon, R.** FOSSIL CYPRINIDS (OSTARIOPHYSI, CYPRINIFORMES) FROM SUMATRA, INDONESIA
- B87 **Koevoets, M. J., Hurum, J. H., Friedman, M.** THE REDISCOVERY OF *LEPTOLEPIS NATHORSTI*: A JURASSIC TELEOST FROM THE AGARDHFJELLET FM, SPITSBERGEN, SVALBARD
- B88 **Van Vranken, N., Fielitz, C.** BRIDGING THE GAP: THE BIOSTRATIGRAPHIC RECORD OF THE GENUS *BELONOSTOMUS* WITH NOTES ON NEW OCCURENCES IN TEXAS AND MEXICO
- B89 **Carpenter, N. E., Smith, G. R.** THE YELLOWSTONE HOT SPOT AND WESTERN FRESHWATER FISH EVOLUTION
- B90 **Sankey, J. T., Biewer, J., Basuga, J., Palacios, F.** DID THE GIANT, TUSK-TOOTHED SALMON (*ONCORHYNCHUS RASTROSUS*) MORPH BEFORE MIGRATION UPRIVER LIKE MODERN SALMON DO TODAY?
- B91 **Rufolo, S. J., Stewart, K. M.** PALAEOECOLOGICAL INFERENCES FROM FOSSIL FISH AT THE KANAPOI SITE, KENYA
- B92 **Challands, T. J., Smithson, T. R., Clack, J., Marshall, J. E., Bennett, C. E., Fraser, N. C., Walsh, S., Finney, S.** EARLIEST CARBONIFEROUS DIPNOI: POST-HANGENBERG RECOVERY AND THE DAWN OF A NEW ERA OF LUNGFISH
- B93 **Ehret, D. J., Harrell, L., Phillips, G. E.** LUNGFISH (DIPNOI, CERATODONTIFORMES) TOOTH PLATES FROM THE LATE CRETACEOUS (LATE SANTONIAN) TOMBIGBEE SAND MEMBER, EUTAW FORMATION OF ALABAMA AND MISSISSIPPI, USA
- B94 **Harrison, G. W., Kirkland, J. I., Fischer, J., San Miguel, G., Santucci, V. L.** TWO CHIMAERID (CHONDRICHTHYES, HOLOCEPHALI) EGG CASES FROM THE UPPER CRETACEOUS CLIFF HOUSE SANDSTONE OF THE MESAVERDE GROUP AT MESA VERDE NATIONAL PARK (MEVE): WITH COMMENTS ON THE CLASSIFICATION OF EGGS
- B95 **Johnson-Ransom, E. D., Popov, E. V., Demere, T. A., Shimada, K.** THE LATE CRETACEOUS CHIMAEROID FISH, *ISCHYODUS BIFURCATUS*, FROM SOUTHERN CALIFORNIA, USA, AND ITS PALEOBIOGEOGRAPHICAL SIGNIFICANCE
- B96 **Bazzi, M., Campione, N., Kear, B., Blom, H., Ahlberg, P. E.** MORPHOLOGICAL RELEASE FOLLOWING SELECTIVE EXTINCTION AMONGST SHARKS AT THE END OF THE MESOZOIC
- B97 **Veach, A., Gottfried, M.** MORPHOLOGICAL OBSERVATIONS AND BODY SIZE ESTIMATES BASED ON LAMNOID SHARK VERTEBRAL CENTRA FROM THE LATE CRETACEOUS OF SEYMOUR ISLAND, ANTARCTICA
- B98 **Shimada, K., Ward, D. J.** THE OLDEST FOSSIL RECORD OF THE MEGAMOUTH SHARK (LAMNIFORMES, MEGACHASMIDAE) FROM THE LATE EOCENE OF DENMARK

- B99 **Maisch Iv, H. M., Becker, M. A., Chamberlain Jr, J. A.** BATHYMETRIC CONTROLS ON TAPHONOMIC REWORKING AND BIOEROSION OF CHONDRICHTHYAN TEETH: A COMPARATIVE STUDY FROM THE PUNGO RIVER AND YORKTOWN FORMATIONS, ONSLOW BAY, NORTH CAROLINA
- B100 **Romano, M., Fröbisch, J.** EVOLUTION OF LONG BONES IN CASEID SYNAPSIDS: A COMBINED CLADISTIC AND MORPHOMETRIC APPROACH
- B101 **Nicosia, U., Romano, M., Maganuco, S., Ronchi, A., Fröbisch, J.** NEW MATERIAL OF THE ITALIAN CASEID *ALIERASAURUS RONCHII* (SYNAPSIDA, CASEIDAE) AND ITS PHYLOGENETIC POSITION WITHIN CASEASAURIA
- B102 **Brocklehurst, N., Romano, M., Fröbisch, J.** REVISITING CASEID PHYLOGENY: AN ALTERNATIVE TREATMENT FOR MORPHOMETRIC CHARACTERS
- B103 **Rowland, S. M., Rickerson, C., Matz, S., Vosburgh, S., Cluff, T., Burkett, M.** FIRST REPORT OF A LARGE TETRAPOD TRACKWAY IN THE LOWER PERMIAN (WOLFCAMPAN) QUEANTOWEAP SANDSTONE OF SOUTHERN NEVADA
- B104 **Whitney, M. R., Mose, L., Sidor, C. A.** HISTOPATHOLOGY OF A POTENTIALLY CANCEROUS MASS IN A LATE PERMIAN GORGONOPSID CANINE
- B105 **Tsuji, L. A., Mann, A., Paterson, R. S.** CRANIAL OSTEOLOGY OF A NEW SPECIMEN OF *LYCAENOPS* (THERAPSIDA: GORGONOPSIA)
- B106 **Fröbisch, J., Jansen, M., Aschenbach, T., Rothschild, B. M., Witzmann, F.** SPINA BIFIDA IN THE EARLY TRIASSIC DICYNODONT THERAPSID *MYOSAURUS GRACILIS*
- B107 **Hendrickx, C., Abdala, F., Choiniere, J. N.** POSTCANINE MICROSTRUCTURE IN *CRICODON METABOLUS*, A MIDDLE TRIASSIC GOMPHODONT CYNODONT FROM SOUTHEASTERN AFRICA
- B108 **Panciroli, E., Walsh, S., Brusatte, S., Fraser, N.** RE-EXAMINATION OF *STEREOGNATHUS HEBRIDICUS* (SYNAPSIDA, TRITYLODONTIDAE) FROM THE MIDDLE JURASSIC OF SKYE, SCOTLAND
- B109 **Pittman, M., Kaye, T. G., Schwarz, D., Pei, R., Xu, X.** 150 YEAR OLD *ARCHAEOPTERYX* MYSTERY SOLVED
- B110 **McIntosh, A. P.** GEOMETRIC MORPHOMETRIC ANALYSIS OF THE PEDAL CLAW OF *CONFUCIUSORNIS SANCTUS* (AVES, CONFUCIUSORNITHIDAE) AND ITS IMPLICATIONS FOR MORPHOLOGICAL VARIATION BETWEEN BEHAVIORAL GROUPS
- B111 **Wang, R., Hu, D., Zhang, M., Xu, X.** A NEW CONFUCIUSORNITHID SPECIMEN FROM THE LOWER CRETACEOUS OF WESTERN LIAONING, CHINA
- B112 **O'Connor, J., Zheng, X., Wang, X., Pan, Y., Zhou, Z.** THE BIOLOGY OF *EOCONFUCIUSORNIS*
- B113 **Hu, H., O'Connor, J. K., Zheng, X., Wang, X., Wang, Y., Zhou, Z.** A RECONSTRUCTION OF THE SKULL OF *SAPEORNIS* AND CRANIAL EVOLUTION IN EARLY BIRDS
- B114 **Imai, T., Azuma, Y., Shibata, M., Miyata, K.** REPORT ON A FOSSIL BIRD FROM THE LOWER CRETACEOUS KITADANI FORMATION, TETORI GROUP, FUKUI, JAPAN
- B115 **Navalón, G., Chiappe, L. M., Marugán-Lobón, J., Meng, Q.** A PRIMITIVE CONFUCIUSORNITHID BIRD FROM THE HUAJIYING FORMATION (HEBEI, NORTHEASTERN CHINA) SHEDS NEW LIGHT ON THE DIVERSITY AND EVOLUTION OF CONFUCIUSORNITHIDAE
- B116 **Tykoski, R. S., Fiorillo, A. R.** NEW BIRD FOSSILS FROM THE WOODBINE FORMATION (LOWER MIDDLE CENOMANIAN) OF TEXAS
- B117 **O'Connor, P. M., Turner, A. H., Groenke, J. R.** NEW AVIALANS FROM THE LATE CRETACEOUS MAEVARANO FORMATION, MAHAJANAGA BASIN, NORTHWESTERN MADAGASCAR
- B118 **Mohr, S. R., Currie, P. J., Acorn, J.** AN ORNITHURINE CORACOID FROM THE LATE CRETACEOUS OF ALBERTA, CANADA
- B119 **Wilson, L. E.** A BIRD'S EYE VIEW OF THE WESTERN INTERIOR SEAWAY: THE ROLE OF SEABIRDS IN UNDERSTANDING LATE CRETACEOUS MARINE ECOSYSTEMS
- B120 **Kirchner-Smith, M. E.** HOW GOOD IS THE TARSOMETATARSUS FOR AVIAN SPECIES IDENTIFICATION? 3D GEOMETRIC MORPHOMETRICS IN THE HESPERORNITHIFORMES (AVES, ORNITHURAE)
- B121 **Tütken, T., Held, P., Hellmund, M., Galer, S. J.** CALCIUM ISOTOPE ANALYSIS OF FOSSIL BONES: THE PALEOGENE GIANT FLIGHTLESS BIRD *GASTORNIS* WAS A HERBIVORE
- B122 **Stidham, T. A., Rose, K. D.** A NEW SANDCOLEID (AVES, COLIIFORMES) FROM THE EARLY EOCENE OF WYOMING AND ITS IMPLICATIONS FOR PALEOBIOLOGY, INTRASPECIFIC VARIATION, AND EVOLUTION IN EARLY MOUSEBIRDS
- B123 **Yury, R. E.** A SMALL FOSSIL PENGUIN (AVES, SPHENISCIFORMES) FROM THE LATE MIOCENE BAHÍA INGLESA FORMATION, ATACAMA DESERT, NORTHERN CHILE

- B124 **Rozin, R. E., Cost, I. N., Holliday, C. M.** FEEDING BIOMECHANICS IN GALLIFORM BIRDS AND ITS SIGNIFICANCE FOR AVIAN CRANIAL EVOLUTION
- B125 **Torres, C. R., Viola, P., Eliason, C. M., Clarke, J. A.** NEUROANATOMICAL EVOLUTION OF PALAEOGNATHS: INSIGHT FROM NEW CRANIAL ENDOCASTS OF ELEPHANT BIRDS (AEPYORNITHIFORMES)
- B126 **Lubeek, J. K., Jansen, M. N., Kluiving, S. J., De Louw, P. G., Meijer, H. J., Hume, J. P., De Vos, J., Janoo, A., Claessens, L., Rijdsdijk, K.** RECONSTRUCTING INTERNAL ANATOMY OF THE BONE LAYER IN THE MARE AUX SONGES DODO-LAGERSTÄTTE (MAURITIUS): 3D-BONE MAPPING USING GEOGRAPHIC INFORMATION SYSTEMS (GIS)
- B127 **Ferguson, A. L., Varricchio, D. J.** MODERN TAPHONOMY OF FOUR SPECIES OF COLONIAL GROUND NESTING BIRDS: IMPLICATIONS FOR IDENTIFYING DEVELOPMENTAL STRATEGIES
- B128 **Caggiano, E. G., Witmer, L. M.** THE ANATOMY OF THE NASAL SALT GLAND OF EXTANT BIRDS AND ITS RELEVANCE FOR INFERRING THE BEHAVIOR AND HABITAT PREFERENCES OF EXTINCT BIRDS AND OTHER ARCHOSAURS
- B129 **Early, C. M., Witmer, L. M.** PREDICTING VISUAL ABILITIES AND BEHAVIORS IN EXTINCT BIRDS BASED ON BRAIN ENDOCASTS
- B130 **Macaluso, L., Tschopp, E.** KEY INNOVATIONS AND EVOLUTIONARY CONSTRAINTS DURING THE EVOLUTION OF AVIAN FLIGHT
- B131 **Button, K., Zanno, L. E.** LINEAR MORPHOMETRIC ANALYSIS OF BEAK ECOMORPHOLOGY IN AVIAN AND NON-AVIAN DINOSAURS
- B132 **Proffitt, J. V.** INVESTIGATING THE EVOLUTION OF LIMB MORPHOSPACE AND LOCOMOTOR BEHAVIOR DIVERSITY IN AVES
- B133 **Jung, J., Sumida, S. S.** NEW INFORMATION ON THE CAPTORHINID REPTILE *CAPTORHINIKOS CHOZAENSIS* FROM THE LOWER PERMIAN OF TEXAS
- B134 **Macdougall, M. J., Reisz, R. R.** THE EARLY PERMIAN (CISURALIAN) RICHARDS SPUR LOCALITY, OKLAHOMA, USA, AND THE EARLY EVOLUTION AND DIVERSITY OF PARAREPTILIA
- B135 **Lu, H., Jiang, D., Sun, Z., Li, Z., Zhou, M.** A NEW SPECIMEN OF TRIASSIC PISTOSAUROID *YUNGUISAURUS* FROM LADINIAN (LATE MIDDLE TRIASSIC) XINGYI FAUNA OF GUIZHOU, SOUTHWESTERN CHINA
- B136 **Jenkins, K. M., Lewis, P. J.** PHYLOGENETIC POSITION OF *PALACRODON*: AN ENIGMATIC EARLY TRIASSIC LEPIDOSAUR FROM SOUTHERN GONDWANA
- B137 **Gay, R. J., Jenkins, X., St. Aude, I., Azouggagh, D.** A NEW, DIVERSE MICROVERTEBRATE LOCALITY FROM THE LOWER CHINLE FORMATION OF SOUTHEASTERN UTAH (USA)
- B138 **Hartman, S., Lovelace, D. M., Linzmeier, B. J.** MECHANISTIC PHYSIOLOGICAL MODELLING PREDICTS GEOGRAPHIC DISTRIBUTION OF LATE TRIASSIC TETRAPODS
- B139 **Mueller, B. D., Martz, J. W., Hungerbuhler, A., Nesbitt, S. J.** A DIVERSE LATE TRIASSIC (NORIAN) TETRAPOD FAUNA AND TAPHONOMY OF MOTT VPL 3869 FROM THE TECOVAS FORMATION (DOCKUM GROUP) IN GARZA COUNTY, TEXAS, USA
- B140 **Peacock, B. R., Sidor, C. A., Angielczyk, K. D., Nesbitt, S. J., Smith, R., Tabor, N. J., Steyer, J., Tolan, S.** THE OLDEST CROWN-GROUP SAURIAN? A LARGE-BODIED ARCHOSAUIROMORPH FROM THE MIDDLE PERMIAN OF ZAMBIA
- B141 **Foth, C., Ezcurra, M., Sookias, R., Brusatte, S., Butler, R. J.** UNAPPRECIATED HIGH CRANIAL DISPARITY IN STEM ARCHOSAURS PREDATED THE DOMINANCE OF THE ARCHOSAUR CROWN
- B142 **Weinbaum, J. C., Martz, J. W., Knell, M. J., Hungerbuehler, A., M'Sadoques, J. G.** A NEW HIGHLY PRODUCTIVE BONEBED OF THE LATE TRIASSIC AETOSAUR *TYPOTHORAX*
- B143 **Stefanic, C. M., Nesbitt, S. J.** THE EVOLUTION OF ARCHOSAURIAN BODY SIZE: AN ANALYSIS OF THE INTERVERTEBRAL ARTICULATIONS OF STEM CROCODYLIANS FROM THE TRIASSIC
- B144 **Hoffman, D. K., Heckert, A. B., Schneider, V. P., Fraser, N. C., Zanno, L. E.** X-RAY COMPUTED TOMOGRAPHIC RECONSTRUCTION OF THE AETOSAUR *COAHOMASUCHUS* (ARCHOSAURIA, STAGONLEPIDIDAE) AND RE-ANALYSIS OF ITS PHYLOGENETIC RELATIONSHIPS
- B145 **Holloway, W. L.** PHYTOSAURIAN CRANIAL EVOLUTION: INSIGHTS FROM GEOMETRIC MORPHOMETRICS
- B146 **Stocker, M. R., Nesbitt, S. J., Zhao, L., Wu, X., Li, C.** MOSAIC EVOLUTION IN PHYTOSAURIA: THE ORIGIN OF LONG-SNOURED MORPHOLOGIES BASED ON A COMPLETE SKELETON OF A PHYTOSAUR FROM THE MIDDLE TRIASSIC OF CHINA
- B147 **Heckert, A. B., Nesbitt, S. J., Schneider, V. P., Stocker, M. R., Hoffman, D.** A NEW, SHORT-FACED ARCHOSAURIFORM (CROCODYLOMORPHA) FROM THE UPPER TRIASSIC *PLACERIAS/DOWNS'* QUARRY COMPLEX, EAST-CENTRAL ARIZONA

- B148 **Martz, J. W., Small, B. J.** A NEW SILESAURID (DINOSAURIFORMES) ALLIED TO *DIODORUS* FROM THE CHINLE FORMATION OF NORTHERN COLORADO, AND ITS SIGNIFICANCE TO LATE TRIASSIC DINOSAURIFORM PALEOBIOGEOGRAPHY
- B149 **Nesbitt, S. J., Butler, R. J., Barrett, P. M., Stocker, M. R., Sidor, C. A., Angielczyk, K. D., Ezcurra, M. D., Smith, R. M.** THE EARLY EVOLUTION OF BIRD-LINE ARCHOSAURS: A POSSIBLE NEW CLADE OF GLOBALLY DISTRIBUTED AVEMETATARSALIA JUST OUTSIDE THE DINOSAUR-PTEROSAUR SPLIT
- B150 **Frigot, R. A.** RETROVERSION OF THE PUBIS IN PTEROSAURIA AND ITS SIGNIFICANCE IN RECONSTRUCTING GAIT
- B151 **Rodrigues, T., Sobral, G., Mueller, J., Rauhut, O. W.** INSIGHTS ON THE NEUROANATOMY OF THE PTEROSAUR *PTERODACTYLUS* (PTERODACTYLOIDEA)
- B152 **Martin-Silverstone, E., Naish, D.** POSTCRANIAL PALEONEUROLOGY OF PTEROSAURS
- B153 **Anderson, E. C., O'Keefe, F.** ANALYZING PTEROSAUR ONTOGENY AND SEXUAL DIMORPHISM WITH MULTIVARIATE ALLOMETRY
- B154 **Mccormack, L., Sertich, J.** A POSSIBLE LATE CAMPANIAN RECORD OF PTERANODONTIA FROM THE KAIPAROWITS FORMATION OF GRAND STAIRCASE-ESCALANTE NATIONAL MONUMENT, SOUTHERN UTAH
- B155 **Lichtig, A. J., Lucas, S. G.** *CHINLECHELYS*: A REEXAMINATION OF NORTH AMERICA'S OLDEST (TRIASSIC, REVULTIAN, NORIAN) TURTLE AND ITS IMPACT ON THEORIES OF TURTLE ORIGINS
- B156 **Obraztsova, E. M., Danilov, I. G.** AN UPDATE ON THE MIDDLE JURASSIC TURTLE ASSEMBLAGE OF THE BEREZOVSK QUARRY (WEST SIBERIA, RUSSIA)
- B157 **Chapman, S., Rabi, M., Kear, B. P., Evers, S. W.** THE ANATOMY OF *NOTOCHELONE* LYDEKKER, 1889 AN EARLY CRETACEOUS PROTOSTEGID (TESTUDINES) FROM AUSTRALIA AND ITS BEARING ON THE ORIGIN AND EARLY EVOLUTION OF SEA TURTLES
- B158 **Hutchinson, H. R., Vlamis, T. W., White, L. J., Wilson, L. E.** PRELIMINARY ANALYSIS OF *PROTOSTEGA GIGAS* OSTEOHISTOLOGY
- B159 **Nakajima, Y., Danilov, I. G., Hirayama, R., Sonoda, T., Scheyer, T.** MORPHOLOGICALLY AND HISTOLOGICALLY DIAGNOSTIC SOFTSHELL TURTLES FROM THE LOWER CRETACEOUS OF JAPAN
- B160 **Edgar, S. C., Evans, D. C.** A NEW PLASTOMENINE (TESTUDINES, TRIONYCHIDAE) FROM THE MILK RIVER FORMATION OF ALBERTA (LATE CRETACEOUS: SANTONIAN)
- B161 **Manlove, H., Yamamura, D., Suarez, C. A.** INVESTIGATING THE DIAGENESIS OF TURTLE SHELL FRAGMENTS USING STABLE ISOTOPE, KAIPAROWITS FORMATION, SOUTHERN UTAH
- B162 **Hu, Y., Huang, J., Obraztsova, E. M., Syromyatnikova, E. V., Danilov, I. G.** A NEW NANHSIUNGCHELYID TURTLE FROM THE LATE CRETACEOUS OF JIANGXI, CHINA
- B163 **Danilov, I. G., Vitek, N., Nakajima, Y., Hirayama, R.** PHYLOGENETIC POSITION OF SOME FOSSIL SOFT-SHELLED TURTLES FROM THE CRETACEOUS AND PALEOGENE OF ASIA
- B164 **Ricker, A. C.** DESCRIPTION OF PENNY CREEK CHELONIAN FAUNA (MIOCENE: EARLY CLARENDONIAN), WEBSTER COUNTY, NEBRASKA AND DIVERSITY COMPARISON TO NORDEN BRIDGE CHELONIAN FAUNA (MIOCENE: MEDIAL BARSTOVIAN), BROWN COUNTY, NEBRASKA
- B165 **Alicea, J., Jud, N., Vitek, N.** REANALYSIS OF A COMPLETE TRIONYCHID SKULL FROM FLORIDA ASSIGNED TO *A. FEROX*
- B166 **Lucas, S. G., Lichtig, A. J.** DISCORDANCE BETWEEN MOLECULAR AND MORPHOLOGICAL PHYLOGENIES REQUIRES A REEXAMINATION OF CLADISTIC METHODOLOGY: TURTLES AS AN EXAMPLE

FRIDAY MORNING, OCTOBER 28, 2016

PODIUM SYMPOSIUM II: PALEO EVO-DEVO: THE NEW SCIENCE OF THE VERY OLD

GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB

MODERATORS: Alistair R. Evans and Bhart-Anjan S. Bhullar

- 8:00 **Goswami, A., Randau, M., Bennett, C., Tilley, H., Polly, P., Weisbecker, V., Hautier, L., Sánchez-Villagra, M.** DEVELOPMENTAL CONSTRAINTS ON THE EVOLUTION OF THE MARSUPIAL CRANIUM
- 8:15 **Weisbecker, V., Hinds, L., Selwood, L., Whish, S., Carlisle, A.** EVO-DEVO OF MAMMALIAN BRAIN PROPORTIONS: TESTING PARADIGMS OF CONSERVED GROWTH AND EVOLUTIONARY SCALING IN THE GROWING MARSUPIAL BRAIN
- 8:30 **Urban, D. J., Anthwal, N., Maier, J. A., Tucker, A. S., Sears, K. E.** AN EARFUL OF JAW, THEN AND NOW: USING MARSUPIAL EVO-DEVO TO SHED LIGHT ON A MAJOR EVOLUTIONARY TRANSITION IN THE PALEONTOLOGICAL RECORD
- 8:45 **Luo, Z., Schultz, J. A.** PHYLOGENETIC HOMOPLASY AND DEVELOPMENTAL MORPHOGENESIS OF MAMMALIAFORM INNER EAR COCHLEA

- 9:00 **Jernvall, J., Savriama, Y., Valtonen, M.** CONSERVATION OF THE FINE-TUNING OF MAMMALIAN TOOTH SHAPE
- 9:15 **Evans, A., Catlett, K., Daly, E., King, S., Samonds, K., Godfrey, L., Schwartz, G.** INTEGRATION OF THE MAMMALIAN DENTITION BY THE INHIBITORY CASCADE
- 9:30 **Boisvert, C. A., Johanson, Z., Maksimenko, A., Currie, P. D., Trinajstić, K.** SHARKS IN TECHNICOLOR: DEVELOPMENT OF THE SYNARCUAL IN ELEPHANT SHARKS (HOLOCEPHALI, CHONDRICHTHYES) AND PLACODERMS
- 9:45 **Sears, K., Maier, J., Rivas-Astroza, M., Bormet, A., Rapti, Z., Zhao, K., Sinha, S., Ma, J., Behringer, R., Cretekos, C., Marcot, J. D.** THE DEVELOPMENTAL BASIS OF MAMMALIAN LIMB DIVERSIFICATION
- 10:00 **BREAK**
- 10:15 **Bhullar, B. S., Sefton, E. M.** THE VERTEBRATE NECK IS OLD AND SOME OF IT IS MADE OF HEAD
- 10:30 **Coates, M., Stewart, T. A.** ALL CHANGE? PAIRED FINS AND THE NEW PHYLOGENIES OF EARLY GNATHOSTOMES
- 10:45 **Hirasawa, T., Fujimoto, S., Kuratani, S.** EVOLUTIONARY ORIGIN OF THE DIAPHRAGM
- 11:00 **Bell, M. A.** FOSSILS, GENES, AND EVERYTHING IN BETWEEN: PELVIC REDUCTION IN THREESPINE STICKLEBACK FISH
- 11:15 **Head, J. J., Royle, S. R.** ROCKS BEAT *HOX*: FOSSIL AND EXTANT ANATOMICAL TESTS OF CONSERVATION IN REGULATORY GENE FUNCTION IN THE EVOLUTION OF NEW VERTEBRATE BODY FORMS
- 11:30 **Kavanagh, K., Young, N.** SHARED DEVELOPMENTAL RULES PREDICT PATTERNS OF SIZE EVOLUTION IN VERTEBRATE SEGMENTED STRUCTURES
- 11:45 **Felice, R. N., Cuff, A., Witmer, L. M., O'Connor, P. M., Rayfield, E. J., Goswami, A.** QUANTIFYING MODULARITY AND RATES OF MORPHOLOGICAL EVOLUTION ACROSS ARCHOSAURIA USING PHENOMIC DATA
- 12:00 **Larsson, H. C., Caldwell, J. R., Du, T. Y., Fowler, D. A., Tahara, R.** DEVELOPMENTAL EVOLUTION OF DISCRETE TO CONTINUOUS TO COMPLEX MORPHOLOGIES: EXAMPLES FROM THE DINOSAUR–BIRD TRANSITION

FRIDAY MORNING, OCTOBER 28, 2016
TECHNICAL SESSION X
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Alex Hastings and Jess Miller-Camp

- 8:00 **Ford, D. P., Pierce, S. E., Benson, R. B.** NEW INSIGHTS ON THE ANATOMY OF *PALEOTHYRIS ARCADIANA* USING MICRO-CT SCANNING
- 8:15 **Elsler, A., Benton, M. J., Ruta, M., Dunhill, A. M.** MACROEVOLUTION OF PARAREPTILIA
- 8:30 **Withdrawn**
- 8:45 **Pritchard, A. C., Sues, H.** MOSAIC EVOLUTION OF THE EARLY SAURIAN POSTCRANIUM REVEALED BY THE POSTCRANIAL SKELETON OF *TERATERPETON HRYNEWICHORUM* (ARCHOSAURIFORMES; LATE TRIASSIC)
- 9:00 **Parker, W. G., Marsh, A., Nesbitt, S. J., Stocker, M. R., Smith, M.** THE DECLINE OF EARLY ARCHOSAURIFORMS IN THE NORIAN (UPPER TRIASSIC) IN THE LOW LATITUDES: NEW INSIGHTS FROM THE UPPER TRIASSIC CHINLE FORMATION OF ARIZONA
- 9:15 **Lessner, E. J., Sues, H., Stocker, M. R.** CONSERVED SEMIAQUATIC MORPHOLOGIES BETWEEN EXTANT CROCODYLIANS AND PHYTOSAURIA
- 9:30 **Melstrom, K., Irmis, R.** MULTIPLE ORIGINS OF HERBIVORY IN MESOZOIC CROCODYLIFORMS SUGGEST NOVEL ECOLOGICAL DYNAMICS DURING THE MESOZOIC
- 9:45 **Hastings, A. K., Callahan, W. R., Pellegrini, R., Parris, D. C.** CLADISTIC AND BIOGEOGRAPHIC ANALYSES OF A NEARLY COMPLETE SKELETON OF *HYPOSAURUS ROGERSII* (CROCODYLIFORMES, DYROSAURIDAE) INDICATE MULTIPLE CROCODYLIFORM DISPERSALS ACROSS THE EARLY ATLANTIC OCEAN
- 10:00 **BREAK**
- 10:15 **Clark, J. M., Turner, A. H., Reynoso, V. H.** A NEW NEOSUCHIAN CROCODYLIFORM FROM THE EARLY CRETACEOUS OF MEXICO PRESERVING A STERNUM, AND THE RELATIONSHIPS OF *ISISFORDIA* AND *SUSISUCHUS*
- 10:30 **Turner, A. H., Brochu, C. A., Miller-Camp, J., Clark, J. M., Narváez, I., Puértolas, E.** PHYLOGENETIC SYSTEMATICS OF NEOSUCHIA BASED ON EXPANDED TAXONOMIC AND CHARACTER SAMPLING: IMPLICATIONS FOR CROCODYLIFORM HISTORICAL BIOGEOGRAPHY, BASAL NEOSUCHIAN DIVERSITY, AND THE ORIGIN OF CROCODYLIA
- 10:45 **Miller-Camp, J., Brochu, C. A., Turner, A. H.** EMPIRICAL EVIDENCE OF A PROCESS THROUGH WHICH COPE'S "LAW OF THE UNSPECIALIZED" CAN BE BROKEN

- 11:00 **Boles, Z. M., Schweitzer, M. H., Lacovara, K. J.** PRESERVATION OF SOFT-TISSUE-LIKE STRUCTURES IN FOSSILS OF CRETACEOUS MARINE REPTILES AND SHARKS
- 11:15 **Myers, T. S., Mateus, O., Polcyn, M. J., Vineyard, D., Jacobs, L. L.** A NEW CHELONIOID TURTLE FROM THE PALEOCENE OF CABINDA, ANGOLA
- 11:30 **Evers, S. W., Choiniere, J. N., Benson, R. B.** LABYRINTH MORPHOLOGY OF THE EARLY JURASSIC STEM-TURTLE *AUSTRALOCHELYS* REVEALS NEUROANATOMICAL CHANGES ASSOCIATED WITH THE ORIGINS OF CROWN-GROUP TURTLES
- 11:45 **Rabi, M., Kear, B. P.** TRANSITIONAL FOSSILS SHED LIGHT ON THE BASAL DIVERGENCE OF ADVANCED MARINE TURTLES
- 12:00 **Vermillion, W. A.** THE EFFECTS OF POST GLACIAL CLIMATE CHANGE ON THE EVOLUTION OF MEMBERS OF THE *CHRYSEMYS* COMPLEX

FRIDAY MORNING, OCTOBER 28, 2016
TECHNICAL SESSION XI
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Nicholas Campione and Kerin Claeson

- 8:00 **Snyder, D., Burrow, C., Pardo, J., Anderson, J. S., Turner, S.** MULTIPLE TECHNIQUES YIELD COMPLEMENTARY DATA ON GYRACANTH ANATOMY
- 8:15 **Johanson, Z., Underwood, C., Fraser, G., Welten, M., Kriwet, J., Pfaff, C., Meredith Smith, M.** DIVERSITY OF SKIN DENTICLES IN FOSSIL AND EXTANT RAYS AND THE ORIGINS OF VERTEBRATE DENTITIONS
- 8:30 **Bronson, A. W., Pradel, A., Denton, J. S., Maisey, J.** AN OPERCULATE CHONDRICHTHYAN FROM THE FAYETTEVILLE SHALE (UPPER MISSISSIPPIAN, ARKANSAS, USA)
- 8:45 **Stilson, K. T., Coates, M., Tietjen, K.** NEW CHONDROCRANIUM FROM *TANAODUS WEISI* ADDS TO PETALODONT DIVERSITY
- 9:00 **Argyriou, T., Friedman, M., Romano, C., Kogan, I., Sánchez-Villagra, M. R.** ENDOCRANIAL ANATOMY AND INTERRELATIONSHIPS OF THE PERMO–TRIASSIC EARLY ACTINOPTERYGIAN *SAURICHTHYS* WITH HIGH-RESOLUTION COMPUTER-ASSISTED MICROTOMOGRAPHY (MCT)
- 9:15 **Latimer, A. E.** NEUROCRANIAL MORPHOLOGY OF A NEW LARGE LATE TRIASSIC NEOPTERYGIAN FISH AND DEEP-BODIED FISHES ON THE TELEOST STEM
- 9:30 **Maltese, A., Liston, J.** FIN END OF THE WEDGE: CONSERVATISM OF THREE DIMENSIONAL STRUCTURE WITH DIVERSITY IN TWO DIMENSIONAL FORM REVEALED IN THE PACHYCORMID APPENDICULAR SKELETON
- 9:45 **Itano, W. M.** INFERENCES ON FUNCTIONAL MORPHOLOGY OF *EDESTUS HEINRICHI* FROM TOOTH MACROWEAR
- 10:00 **BREAK**
- 10:15 **Campione, N., Bazzi, M., Gates, T., Kear, B., Blom, H., Ahlberg, P. E.** DIETARY SELECTION IN LAMNIFORM SHARKS ACROSS THE CRETACEOUS–PALEOGENE BOUNDARY
- 10:30 **Liu, J., Wilson, M. V.** EOCENE FOSSIL RECORD OF CATOSTOMIDS (TELEOSTEI, CYPRINIFORMES) FROM NORTH AMERICA AND DISCOVERY OF THE FIRST LOACH-LIKE CATOSTOMID
- 10:45 **Gottfried, M. D., Eberle, J. J.** NEW RECORDS EXPAND THE DIVERSITY OF EOCENE FISHES FROM CANADA'S WESTERN ARCTIC GREENHOUSE
- 11:00 **Withdrawn**
- 11:15 **Abdelgawad, M. K., Argyriou, T., Carrillo Briceño, J. D., Hamdan, M., El-Barkooky, A., Miller, E., Gunnell, G. F.** A DIVERSE FOSSIL FISH ASSEMBLAGE FROM THE LOWER MIOCENE MOGHRA FORMATION, EGYPT
- 11:30 **Claeson, K. M., Davis, E. B., Sidlauskas, B., Prescott, Z., Andrews, J.** THE SABERTOOTH SALMON, *ONCORHYNCHUS RASTROSUS*, GETS A FACELIFT
- 11:45 **Carrillo Briceño, J. D.** SWIMMING IN TWO OCEANS: TROPICAL AMERICAN CHONDRICHTHYAN PALEODIVERSITY AND FAUNAL TURNOVER BEFORE AND AFTER THE RISE OF THE PANAMA ISTHMUS
- 12:00 **Denton, J. S.** APPLICATION OF TAXON INFLUENCE INDICES TO PALEONTOLOGICAL DATASETS: ROLES FOR BOTH NOVELTY AND IMPORTANCE

FRIDAY AFTERNOON, OCTOBER 28, 2016
TECHNICAL SESSION XII
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATORS: Gabriela Sobral and Aaron Leblanc

- 1:45 **Sobral, G., Butler, R. J., Müller, J.** THE EVOLUTION OF THE ARCHOSAUR EAR: NEW INSIGHTS FROM THE INNER EAR ANATOMY OF RHYNCHOSAURS (DIAPSIDA, ARCHOSAURIFORMES)
- 2:00 **Tsai, H. P., Middleton, K. M., Holliday, C. M.** THE CARTILAGE CONE OF ARCHOSAURIFORMES: IMPLICATIONS OF CHONDRO-OSSEOUS JUNCTION ON HIP JOINT LOADING AND FEMORAL OSSIFICATION
- 2:15 **Manafzadeh, A. R., Padian, K.** COULD PTEROSAURS ADOPT A BATLIKE WING POSE? IMPLICATIONS OF A FUNCTIONAL ANALYSIS OF THE AVIAN HIP LIGAMENTS FOR THE EVOLUTION OF ORNITHOMIMID STANCE AND GAIT
- 2:30 **Sullivan, C., Stidham, T. A., Wang, Y., Claessens, L. P.** STRUCTURE, FUNCTION, AND EVOLUTIONARY HISTORY OF UNCINATE PROCESSES IN EXTANT CROCODYLIANS AND OTHER ARCHOSAURS
- 2:45 **Holliday, C. M., Porter, W., Owerkowicz, T., Vliet, K., Witmer, L. M.** THE SOFT TISSUES OF THE DORSOTEMPORAL FENESTRA OF ARCHOSAURS AND ITS SIGNIFICANCE FOR DINOSAUR BIOLOGY
- 3:00 **Leblanc, A. R., Reisz, R. R.** SEPARATING TOOTH IMPLANTATION FROM TOOTH ATTACHMENT: A CASE STUDY USING DINOSAURS
- 3:15 **Reisz, R. R., Larson, D. W.** DID THEROPOD DINOSAURS HAVE LIPS?
- 3:30 **Cost, I. N., Sellers, K. C., Davis, J. L., Middleton, K. M., Witmer, L. M., Holliday, C. M.** POSTURAL CHANGES AND KINETIC COMPETENCY IN THE PALATES OF BIRDS AND OTHER DIAPSIDA
- 3:45 **Kaye, T. G., Pittman, M., Wang, X., Zheng, X., Xu, X., Hartman, S., Falk, A.** NOTHING BUT SKIN AND BONES: *ANCHIORNIS* BODY OUTLINE REVEALED BY LASER FLUORESCENCE
- 4:00 **Organ, C. L.** ADVANCING BEYOND THE PHYLOGENETIC BRACKET

FRIDAY AFTERNOON, OCTOBER 28, 2016
TECHNICAL SESSION XIII
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Natasha Vitek and Ross Secord

- 1:45 **Hovatter, B. T., Wilson, G. P.** THE EARLY PALEOGENE RISE OF PLACENTALS AND DECLINE OF MULTITUBERCULATES: INSIGHTS FROM ANALYSIS OF DENTAL DISPARITY, MORPHOSPACE OCCUPATION, AND BODY SIZE OF EARLIEST TORREJONIAN (TO1) MAMMALS FROM NORTHEASTERN MONTANA, USA
- 2:00 **Smith, S. M., Aranoff, G., Wilson, G. P.** QUANTITATIVE DENTAL ECOMORPHOLOGY REVEALS A WIDE RANGE OF MAMMALIAN DIETARY ECOLOGIES IN THE FIRST 1.2 MILLION YEARS FOLLOWING THE CRETACEOUS–PALEOGENE MASS EXTINCTION
- 2:15 **Secord, R., Williamson, T. E., Leslie, C., Peppe, D., Brusatte, S.** FIRST RECOGNITION OF CLIMATE HYPERTHERMALS IN THE LOWER PALEOCENE RECORD OF THE SAN JUAN BASIN, NEW MEXICO, USA
- 2:30 **Shelley, S. L., Williamson, T. E., Brusatte, S.** THE ANATOMY OF *PERIPTYCHUS CARINIDENS* WITH COMMENTS ON FUNCTIONAL MORPHOLOGY AND THE PHYLOGENY OF 'ARCHAIC' PALEOCENE MAMMALS
- 2:45 **Solé, F., De Bast, E., Yang, J., Li, C., Smith, T.** A NEW HAPALODECTID (MESONYCHIA, MAMMALIA) FROM THE LATE PALEOCENE OF THE QIANSHAN BASIN (ANHUI PROVINCE, CHINA): NEW DATA ON THE RADIATION OF THE HAPALODECTIDS
- 3:00 **Vitek, N. S., Morse, P. E., Strait, S. G., Boyer, D. M., Bloch, J. I.** MULTIVARIATE CHANGE IN THE DENTAL MORPHOLOGY OF THE SMALL-BODIED INSECTIVOROUS MAMMAL *MACROCRANION* (EULIPOTYPHILA, ERINACEOMORPHA) ACROSS THE PALEOCENE–EOCENE THERMAL MAXIMUM
- 3:15 **Fraser, D. L., Lyons, S.** STASIS IN LOCALITY-SCALE MAMMAL COMMUNITY STRUCTURE ACROSS THE PALEOCENE–EOCENE THERMAL MAXIMUM
- 3:30 **Smith, T., Quesnel, F., Baron, V., De Ploëg, G., De Bast, E., Folie, A., Smith, R., Solé, F.** NEW EARLIEST EOCENE MAMMAL FAUNA FROM CLAIROIX, FRANCE: FIRST DEFINITIVE DORMAAL (REFERENCE LEVEL MP7) EQUIVALENT OUTSIDE OF BELGIUM
- 3:45 **Beard, K., Metais, G., Coster, P., Ocakoglu, F., Licht, A., Taylor, M.** TETHYAN ISLAND BIOGEOGRAPHY DURING THE EOCENE: A VIEW FROM NORTHERN ANATOLIA
- 4:00 **Poust, A. W.** HISTOLOGY OF THE EARLY PALEOGENE MAMMAL *CORYPHODON* (EUTHERIA, PANTODONTA): A DISTINCT APPROACH TO LARGE BODY SIZE?

FRIDAY AFTERNOON, OCTOBER 28, 2016
TECHNICAL SESSION XIV
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Kirsten Brink and Christian Kammerer

- 1:45 **Brink, K.** EVOLUTIONARY CHANGES IN THE FEEDING APPARATUS OF THE EARLY PERMIAN SPHENACODONTID SYNAPSID *DIMETRODON* IN THE CONTEXT OF THE ESTABLISHMENT OF MODERN TERRESTRIAL ECOSYSTEMS
- 2:00 **Lungmus, J. K., Angielczyk, K. D.** MORPHOMETRIC ANALYSIS OF PELYCOSAUR-GRADE SYNAPSID PECTORAL ELEMENTS REVEALS DECREASED DISPARITY APPROACHING THERAPSID
- 2:15 **Sidor, C. A., Hopson, J. A., Angielczyk, K. D., Nesbitt, S. J., Peacock, B. R., Smith, R., Steyer, J., Tabor, N. J., Tolan, S.** A NEW SPECIES OF TRAVERSODONT CYNODONT WITH TRITYLODONT-LIKE FEATURES AND POSSIBLE ARBOREAL ADAPTATIONS FROM THE UPPER NTAWERE FORMATION, NORTHEASTERN ZAMBIA
- 2:30 **Kammerer, C. F., Fröbisch, J.** A NEW JURASSIC TRITHELEDONTID CYNODONT AND ITS IMPLICATIONS FOR SYNAPSID SURVIVORSHIP ACROSS THE TRIASSIC–JURASSIC BOUNDARY
- 2:45 **Bendel, E., Kammerer, C. F., Kardjilov, N., Fernandez, V., Fröbisch, J.** CRANIAL ANATOMY AND SYSTEMATIC POSITION OF *AELUROSAURUS* (SYNAPSIDA, GORGONOPSIA) BASED ON A CT-RECONSTRUCTION
- 3:00 **Viglietti, P. A.** THE LOPINGIAN *DAPTOCEPHALUS* ASSEMBLAGE ZONE (KAROO BASIN, SOUTH AFRICA): A REVISED BIOSTRATIGRAPHY SUPPORTS A PHASED PERMO–TRIASSIC MASS EXTINCTION EVENT
- 3:15 **Smith, R. M., Sidor, C. A., Angielczyk, K. D., Nesbitt, S. J., Tabor, N. J.** TAPHONOMY AND SEDIMENTARY ENVIRONMENTS OF MID-TRIASSIC VERTEBRATE ACCUMULATIONS, LIFUA MEMBER (MANDA BEDS), RUHUHU BASIN, TANZANIA
- 3:30 **Angielczyk, K. D., Nabavizadeh, A., Hancox, J., Sidor, C. A., Nesbitt, S. J., Smith, R. M., Tsuji, L. A.** MORPHOLOGY, PHYLOGENETIC RELATIONSHIPS, AND FEEDING SYSTEM FUNCTION OF THE ENIGMATIC TRIASSIC DICYNODONT *SANGUSAURUS* (THERAPSIDA, ANOMODONTIA)
- 3:45 **Nabavizadeh, A., Angielczyk, K. D.** THE EVOLUTION OF JAW MECHANICS AND CRANIAL MUSCULATURE IN DICYNODONTS (THERAPSIDA, ANOMODONTIA)
- 4:00 **Araujo, R. M., Fernandez, V., Polcyn, M. J., Fröbisch, J., Martins, R. M.** THE NEURAL CREST–MESODERM BOUNDARY IN THE BASICRANIUM OF MAMMAL PREDECESSORS: INSIGHTS FROM THERAPSID SKULLS

FRIDAY, OCTOBER 28 THROUGH SATURDAY, OCTOBER 29, 2016
POSTER SYMPOSIUM II: AN ECOSYSTEM WE THOUGHT WE KNEW: THE EMERGING COMPLEXITIES OF THE MORRISON FORMATION
GRAND AMERICA HOTEL, EXHIBIT HALL, GRAND BALLROOM
Authors must be present from 4:15 – 6:15 p.m., Friday, October 28
Posters must be removed by 6:30 p.m., Saturday, October 29

- B51 **Breithaupt, B. H., Matthews, N. A., Southwell, E. H., Brinkman, P.** OLD SITES–NEW TECHNOLOGIES: REEVALUATION OF THE MORRISON FORMATION: FROM HISTORIC EXPEDITIONS TO NEW SCIENTIFIC DISCOVERIES
- B52 **Hotton, C. L., Baghai-Riding, N. L.** PALYNOLOGY OF THE LATE JURASSIC MORRISON FORMATION: NEW INSIGHTS INTO FLORISTICS, PALEOCLIMATE, PHYTOGEOGRAPHY, AND TETRAPOD HERBIVORY
- B53 **Gee, C. T.** EMERGING DATA ON THE MORRISON FLORA: OPULENT CONIFER FORESTS OR A HINTERLAND XERISCAPE FOR THE SAUROPODS?
- B54 **Nydam, R. L., Caldwell, M. W., Apesteguía, S., Palci, A.** LIZARDS AND SNAKES OF THE MORRISON FORMATION (UPPER JURASSIC, USA) AND THE EARLY GLOBAL DISTRIBUTION AND DIVERSITY OF SQUAMATES
- B55 **Jones, M. E., Watson, A. P., Sertich, J., Foster, J., Garbe, U., Salvemini, F.** NEUTRON COMPUTED TOMOGRAPHY SUCCEEDS WHERE X-RAY COMPUTED TOMOGRAPHY FAILS: ENAMEL THICKNESS IN THE HERBIVOROUS RHYNCHOCEPHALIAN *EILENODON* FROM THE LATE JURASSIC MORRISON FORMATION OF USA
- B56 **Davis, B. M., Rougier, G. W.** THE ICONIC MESOZOIC MAMMALS: THE LONG SHADOW OF MORRISON MAMMALS ON OUR UNDERSTANDING OF EARLY MAMMALIAN EVOLUTION
- B57 **Peterson, J. E., Warnock, J. P., Clawson, S. R.** NEW DATA TOWARDS A TAPHONOMIC FRAMEWORK FOR THE CLEVELAND-LLOYD DINOSAUR QUARRY
- B58 **Woodruff, C., Fowler, D. W.** WHAT FACTORS INFLUENCE OUR RECONSTRUCTIONS OF MORRISON FORMATION SAUROPOD DIVERSITY?
- B59 **Foster, J. R., Irmis, R. B., Trujillo, K. C., McMullen, S. K., Gillette, D. D.** *DYSTROPHAEUS VIAEMALAE* COPE FROM THE BASAL MORRISON FORMATION OF UTAH: IMPLICATIONS FOR THE ORIGIN OF EUSAUROPODS IN NORTH AMERICA

- B60 **Tschopp, E., Giovanardi, S., Maidment, S. C.** TEMPORAL DISTRIBUTION OF DIPLODOCID SAUROPODS ACROSS THE UPPER JURASSIC MORRISON FORMATION (USA)
- B61 **Galton, P. M., Carpenter, K.** BIPEDAL ORNITHISCHIAN DINOSAURS (HETERODONTOSAURIDAE AND ORNITHOPODA) FROM THE MORRISON FORMATION (UPPER JURASSIC) OF THE WESTERN UNITED STATES OF AMERICA
- B62 **Kirkland, J. I., Carpenter, K., Morgan, K.** THE MORRISON FORMATION'S ANKYLOSAURS
- B63 **Fricke, H. C., Hoerner, M., Foster, J.** SAUROPOD AND THEROPOD MOVEMENT AND HABITAT PREFERENCES OVER DIFFERENT PARTS OF THE MORRISON BASIN: INSIGHTS FROM CARBON, OXYGEN AND STRONTIUM ISOTOPE RATIOS OF TOOTH ENAMEL
- B64 **Whitlock, J. A., Hanik, G. M., Trujillo, K. C.** USING BIPARTITE NETWORKS TO EXAMINE MORRISON FORMATION DINOSAUR COMMUNITY STRUCTURE
- B65 **Trujillo, K. C.** TYING IT ALL TOGETHER: USING RADIOMETRIC AGES TO CORRELATE FOSSIL LOCALITIES ACROSS THE UPPER JURASSIC MORRISON FORMATION, WESTERN INTERIOR, USA
- B66 **Maidment, S. C., Muxworthy, A.** A CHRONOSTRATIGRAPHIC FRAMEWORK FOR THE MORRISON FORMATION, AND THE LATITUDINAL BIODIVERSITY GRADIENT IN MORRISON DINOSAURS
- B67 **McMullen, S. K.** CONTROLS ON THE STRATIGRAPHIC DISTRIBUTION OF NON-MARINE FOSSILS: A CASE STUDY IN THE JURASSIC MORRISON FORMATION, WESTERN USA
- B68 **Mateus, O.** LATE JURASSIC OF MORRISON FORMATION AND PORTUGAL TETRAPODS COMPARED: A MODEL TO EXPLAIN FAUNAL EXCHANGE AND SIMILARITY
- B69 **Rauhut, O. W.** LATE JURASSIC DINOSAURS FROM GONDWANA: MATERIALS FOR COMPARISON WITH THE MORRISON FORMATION

FRIDAY, OCTOBER 28, 2016
POSTER SESSION III
GRAND AMERICA HOTEL, EXHIBIT HALL, GRAND BALLROOM
Authors must be present from 4:15 – 6:15 p.m.
Posters must be removed by 6:30 p.m.

- B70 **Esplin, R., Britt, B. B., Chure, D. J.** AN EMBARRASSMENT OF PALEONTOLOGICAL RICHES: 3D IMAGERY AND ASSOCIATED DATA FOR THE FOSSILS OF THE CARNEGIE QUARRY, DINOSAUR NATIONAL MONUMENT
- B71 **Martínez, R. N., Sojo Agüero, C. N., García, G. N., Apaldetti, C. N.** A LATE NORIAN COELOPHYSID NEOTHEROPOD (DINOSAURIA, SAURISCHIA) FROM NORTHWESTERN ARGENTINA
- B72 **Stiegler, J. B., Wang, S., Xu, X., Clark, J. M.** *LIMUSAURUS* AND THE EVOLUTION AND BIOGEOGRAPHY OF CERATOSAURS
- B73 **Demic, M., Curry Rogers, K., O'Connor, P. M.** BONE HISTOLOGY REVEALS UNUSUAL LIFE HISTORY IN THE THEROPOD DINOSAUR *MAJUNGASAUROS CRENATISSIMUS* FROM THE LATEST CRETACEOUS OF MADAGASCAR
- B74 **Malafaia, E., Ortega, F., Mocho, P., Escaso, F.** NEW SPECIMEN OF ALLOSAUROIDEA (DINOSAURIA, TETANURAE) FROM THE UPPER JURASSIC OF PORTUGAL
- B75 **Cuesta, E., Ortega, F., Sanz, J.** PHYLOGENETIC REASSESSMENT OF *CONCAVENATOR CORCOVATUS* (LOWER CRETACEOUS, SPAIN) AND ITS IMPLICATIONS FOR CARCHARODONTOSAURIDAE RELATIONSHIPS
- B76 **Bourke, J., Witmer, L. M., Ridgely, R. C., Porter, W., Zanno, L. E.** AIRFLOW SIMULATIONS IN THE ANTORBITAL SINUS OF *ACROCANTHOSAURUS*. TESTING THE POTENTIAL FOR THEROPOD PARANASAL SINUSES TO FUNCTION AS ACCESSORY COOLING STRUCTURES
- B77 **White, M. A.** PEDAL SOFT TISSUE AND BIOLOGICAL RESTORATION OF *AUSTRALOVENATOR WINTONENSIS* (THEROPODA, MEGARAPTORIDAE) TO DETERMINE THE EFFECTS SOFT TISSUE HAS ON RANGE OF MOTION
- B78 **Samathi, A., Chanthasit, P., Sander, M. P.** NEW MATERIAL OF A NEW METRIACANTHOSAURID (DINOSAURIA, THEROPODA) FROM THE PHU NOI LOCALITY (LATE JURASSIC–EARLY CRETACEOUS) OF THAILAND
- B79 **Carr, T. D.** TOWARD UNDERSTANDING PHYLOGENETIC AND ONTOGENETIC TOOTH LOSS IN ARCHOSAURIA: DOCUMENTING PATTERNS OF TOOTH REPLACEMENT IN *TYRANNOSAURUS REX*
- B80 **Brusatte, S., Muir, A., Averianov, A., Balanoff, A., Bever, G., Carr, T. D., Kundrat, M., Sues, H., Williamson, T. E., Xu, X.** BRAINS BEFORE BRAWN: NEUROSENSORY EVOLUTION IN TYRANNOSAUROID DINOSAURS
- B81 **Prieto-Marquez, A., Stubbs, T. L., Benton, M. J., Brusatte, S.** REGIONAL MORPHOLOGICAL DISPARITY AND RATES OF EVOLUTION IN COELUROSAURIAN THEROPOD DINOSAURS
- B82 **Kaskes, P., Schulp, A. S., Larson, P. L., Smit, J., Kuiper, K. F., Abels, H. A.** PLACING NATURALIS' *TYRANNOSAURUS REX* SPECIMEN IN A TAPHONOMIC, PALEOENVIRONMENTAL AND INTEGRATED STRATIGRAPHIC FRAMEWORK: HELL CREEK FORMATION, EASTERN MONTANA

- B83 **Qin, Z., Zhao, Q., Xu, X.** BONE HISTOLOGY IN *XIXIANYKUS ZHANGI* (THEROPODA, ALVAREZSAUROIDEA): IMPLICATIONS FOR THE MINIATURIZATION OF ALVAREZSAUROIDEA
- B84 **Tsuihiji, T., Watabe, M., Witmer, L. M., Tsogtbaatar, K., Barsbold, R.** A NEW SPECIMEN OF *MONONYKUS OLECRANUS* (DINOSAURIA: THEROPODA) FROM BUGIN TSAV, WESTERN GOBI DESERT, MONGOLIA, WITH NEW INFORMATION ON THE VERTEBRAL AND SKULL MORPHOLOGY
- B85 **Benner, E. K., Cullen, T. M., Evans, D. C.** A NEW LARGE-BODIED CAENAGNATHID SPECIMEN (THEROPODA, OVIRAPTOROSAURIA) FROM THE HELL CREEK FORMATION (LATE CRETACEOUS) OF MONTANA, WITH IMPLICATIONS FOR OSTEOHISTOLOGICAL VARIABILITY IN CAENAGNATHIDS
- B86 **Funston, G. F., Currie, P. J., Eberth, D., Ryan, M. J., Tsogtbaatar, C., Longrich, N.** THE FIRST OVIRAPTOROSAUR (DINOSAURIA, THEROPODA) BONEBED: INSIGHTS INTO SOCIAL BEHAVIOUR IN A MANIRAPTORAN THEROPOD
- B87 **Blake, S.** THE LATEST KNOWN ORNITHOMIMID FROM THE UPPER HELL CREEK FORMATION, MONTANA: FURTHER CLOSING THE THREE-METER GAP
- B88 **Boitsova, E., Skutschas, P., Averianov, A., Sues, H.** ONTOGENETIC CHANGES IN LONG-BONE HISTOLOGY OF AN ORNITHOMIMID THEROPOD DINOSAUR FROM THE BISSEKTY FORMATION (UPPER CRETACEOUS, TURONIAN) OF UZBEKISTAN
- B89 **Lautenschlager, S.** FUNCTIONAL NICHE PARTITIONING AND DIETARY SPECIALISATION IN THERIZINOSAUR DINOSAURS
- B90 **Chen, A., Holtz, T. R.** EVOLUTION AND ECOLOGICAL ASSOCIATIONS IN HERBIVOROUS THEROPODS
- B91 **Pei, R., Pittman, M., Norell, M., Xu, X.** A REVIEW OF PARAVIAN PHYLOGENY WITH NEW DATA
- B92 **Xu, X.** A NEW PROTOCOL FOR MORPHOLOGY-BASED SYSTEMATICS: A CASE STUDY OF MICRORAPTORINE THEROPOD PHYLOGENY
- B93 **Thomson, T. J., Kirkland, J. I., Bybee, P. J.** A PRELIMINARY INVESTIGATION OF ALLOMETRY IN THE TIBIA AND PEDAL DIGIT II UNGUAL OF THE LARGE DROMAEOSAURID *UTAHRAPTOR* (DINOSAURIA, THEROPODA)
- B94 **Kurosu, M.** NEW DROMAEOSAURID DINOSAUR FROM THE EARLY CRETACEOUS OF JIUQUAN AREA, GANSU PROVINCE, CHINA
- B95 **Ely, R. C., Case, J. A.** A BASAL DEINONYCHOSAUR FROM THE EARLY MAASTRICHTIAN, ANTARCTIC PENINSULA AND THE BIOSTRATIGRAPHY OF THE LATEST CRETACEOUS DINOSAUR FAUNA OF ANTARCTICA
- B96 **Brewer, T. J.** NEW SPECIMENS OF *TROODON FORMOSUS* HIND LIMBS FROM THE FOX HILLS FORMATION OF SOUTH DAKOTA
- B97 **Powers, M., Torices, A., Currie, P. J.** AN EXAMINATION OF TROODONTID TOOTH ANATOMY AND THE IMPLICATIONS OF FUNCTIONAL MORPHOLOGY ON DIET
- B98 **Yu, C., Allen, V., Hutchinson, J. R., Xu, X.** ESTIMATION OF BODY MASS AND CENTER OF MASS OF THE TROODONTID *SINOVENATOR CHANGII*
- B99 **Noto, C. R.** NEW THEROPODS FROM THE WOODBINE FORMATION OF TEXAS: INSIGHTS INTO CENOMANIAN APPALACHIAN ECOSYSTEMS
- B100 **Jasinski, S. E., Sullivan, R. M., Snively, E., Morschhauser, E. M., Dalman, S., Dodson, P.** THEROPODS (DINOSAURIA: THEROPODA) FROM THE SAN JUAN BASIN, NEW MEXICO, AND IMPLICATIONS FOR LATE CRETACEOUS THEROPOD FAUNAS OF LARAMIDIA
- B101 **Zelenitsky, D. K., Therrien, F., Tanaka, K., Debuhr, C. L., Currie, P. J.** FOSSIL EGGSHELLS REVEAL PREVIOUSLY UNKNOWN DINOSAUR DIVERSITY OF THE END CRETACEOUS WILLOW CREEK FORMATION IN SOUTHWESTERN ALBERTA
- B102 **Brum, A. S., Machado, E. B., Campos, D. D., Kellner, A. A.** INTERNAL PNEUMATIC STRUCTURES IN CERVICAL VERTEBRAE OF THEROPOD DINOSAURS
- B103 **Burch, S. H., Gage, S.** OSTEOLOGICAL INDICATORS OF PREY SIZE PREFERENCE IN THE FORELIMBS OF FELIDS AND NONAVIAN THEROPOD DINOSAURS
- B104 **Anduza, D., Fowler, D. W.** A NOTCH ABOVE: THE SUBROSTRAL INDENT OF CARNIVOROUS BIPEDS AS A CLUE TO FEEDING BEHAVIOR
- B105 **Bailleul, A. M., Witmer, L. M., Horner, J. R., Holliday, C. M.** NEW HISTOLOGICAL DATA ON THE CRANIAL JOINTS OF ARCHOSAURS: SIGNIFICANCE FOR THE EVOLUTION AND FUNCTIONAL INFERENCES OF DINOSAUR CRANIAL KINESIS
- B106 **Hattori, S.** HOMOLOGIES OF PEDAL MUSCLES BETWEEN AVIAN AND NON-AVIAN REPTILES AS A BASIS FOR THEIR RECONSTRUCTION IN FOSSIL ARCHOSAURS

- B107 **Milner, A. R., Santucci, V. L., Lockley, M., Wood, J. R., Doyle, S., Kirkland, J. I.** THE "POWELL FOSSIL TRACK BLOCK": THEROPOD TRACKS WITH ORNITHOPOD-LIKE MORPHOLOGY FROM THE LOWER JURASSIC NAVAJO SANDSTONE FORMATION, GLEN CANYON NATIONAL RECREATION AREA, UTAH
- B108 **Kim, K., Lim, J., Lockley, M., Xing, L., Kim, D., Piñuela, L., Romillio, A., Yoo, J., Kim, J.** THE SMALLEST KNOWN DIDACTYL DINOSAUR FOOTPRINTS FROM THE EARLY CRETACEOUS JINJU FORMATION, JINJU, KOREA
- B109 **Smith, J. A., Zanno, L. E., Lockley, M.** LARGE TETRADACTYL FOOTPRINTS IN THE UPPER CRETACEOUS HUNTER CANYON FORMATION OF WESTERN COLORADO: ICNNOLOGICAL EVIDENCE FOR THERIZINOSAURIDS IN THE CAMPANIAN OF NORTH AMERICA?
- B110 **Gatesy, S. M., Falkingham, P. L.** FOOTPRINTS ARE NEITHER BONES NOR FEET: PROBLEMS WITH TRACK "PRESERVATION" AND THE MOLD-BASED PARADIGM
- B111 **Snively, E.** FOOT STRESS SCALING CONSTRAINS ESTIMATES OF MASS FOR ISOLATED, LARGE SAURISCHIAN DINOSAUR SPECIMENS
- B112 **Yoshida, J., Carpenter, K.** BURROWS OF SMALL ANIMALS FROM THE MID-CRETACEOUS CEDAR MOUNTAIN FORMATION, UTAH, USA
- B113 **Jimenez Huidobro, P., Caldwell, M. W.** PHYLOGENETIC RELATIONSHIPS OF TYLOSAURINE MOSASAURS (SQUAMATA, MOSASAUROIDEA) AND THEIR BIOGEOGRAPHIC PATTERNS OF DISTRIBUTION
- B114 **Green, C. C., Wilson, L. E.** HISTOLOGICAL DESCRIPTION OF AN INFECTIOUS PATHOLOGY IN THE VERTEBRAE OF *TYLOSAURUS* SP. (MOSASAURIDAE)
- B115 **Pagnac, D., Abrams, K.** FINDING NEMO: TRAUMATIC PATHOLOGY IN THE LEFT FORELIMB OF A *PLATECARPUS PLANIFRONS* FROM THE NIOBRARA FORMATION (UPPER CRETACEOUS) OF SOUTH DAKOTA, USA
- B116 **Chavarría Arellano, M. L., Montellano, M.** A NEW LOOK AT THE LATE CRETACEOUS LIZARD *DICOTHODON BAJAENSIS* FROM THE EL GALLO FORMATION, BAJA CALIFORNIA, MÉXICO
- B117 **Cleary, T. J.** GLOBAL DIVERSITY PATTERNS OF LEPIDOSAURIA FROM THE TRIASSIC-OLIGOCENE: WHAT CAN THEY TELL US ABOUT THE LONG-TERM EVOLUTIONARY HISTORY OF THE CLADE?
- B118 **Bouchard, S. N., Mccartney, J. A., O'Connor, P. M., Stevens, N. J.** A COLUBROID-DOMINATED FAUNA FROM THE LATE OLIGOCENE NSUNGWE FORMATION OF TANZANIA PROVIDES EARLIEST EVIDENCE OF THE LAMPROPHIID RADIATION (LAMPROPHIIDAE, LAMPROPHIINAE)
- B119 **Jacisin, J. J.** THE FIRST EARLY CLARENDONIAN (MIOCENE) SNAKE ASSEMBLAGE FROM THE PENNY CREEK LOCAL FAUNA, WEBSTER COUNTY, NEBRASKA
- B120 **Scarpetta, S. G., Ledesma, D.** CRANIAL OSTEOLOGY OF EXTINCT AND EXTANT GERRHONOTINE LIZARDS
- B121 **Cieri, R., Brainerd, E., Moritz, S.** ANALYSIS OF VENTILATORY RIB KINEMATICS VIA XROMM IN THE SAVANNAH MONITOR, *VARANUS EXANTHEMATICUS*: IMPLICATIONS FOR COSTOVERTEBRAL JOINT EVOLUTION IN SQUAMATES
- B122 **Pearson, L. K., Clites, E., Santucci, V. L., Boessenecker, R. W.** VERTEBRATE PALEONTOLOGICAL RESOURCE SITE MONITORING AT POINT REYES NATIONAL SEASHORE
- B123 **Boessenecker, S. J., Boessenecker, R. W., Manning, P. L.** NEW COLLECTION CONTRIBUTES INSIGHT TO THE NEOGENE MARINE VERTEBRATE PALEONTOLOGY OF THE LEE CREEK MINE, NORTH CAROLINA
- B124 **Scherzer, B.** AN ARCHAIC BALEEN WHALE (CETACEA, MYSTICETI) FROM THE VAQUEROS FORMATION AND OTHER FOSSIL MATERIAL FROM THE SKYRIDGE PROJECT, ORANGE COUNTY, CALIFORNIA
- B125 **Samonds, K. E., Fordyce, R. E.** LATE MIOCENE CETACEAN FROM NORTHWESTERN MADAGASCAR
- B126 **Tanaka, Y., Ichishima, H.** A NEW SKULL OF *NUMATAPHOCOENA YAMASHITAI*, A FOSSIL PORPOISE FROM THE LOWER PLIOCENE, THE UPPER PART OF THE HOROKAOSHIRARIKA FORMATION, NUMATA, HOKKAIDO, JAPAN, AND PHYLOGENY OF THE PHOCOENIDAE
- B127 **Voss, M., Hampe, O.** SEA COWS IN THE STREET—HOW FOSSIL REMAINS IN THE PEDESTRIAN ZONE OF GIRONA (SPAIN) EXTEND OUR KNOWLEDGE ON EOCENE SIRENIANS (MAMMALIA, TETHYTHERIA)
- B128 **Shinmura, T., Ando, T., Aoyagi, C., Ando, T., Sawamura, H., Sawada, K.** PALEODIETARY RECONSTRUCTION USING STEROIDS IN PALEOGENE FOSSIL BONES OF MARINE MAMMALS FROM HOKKAIDO, JAPAN
- B129 **Uno, H., Kimura, M.** MORPHOLOGICAL VARIATIONS IN MOLARS OF PALEOPARADOXIID FROM THE MIDDLE MIOCENE TONOKITA FORMATION IN AKAN, HOKKAIDO, JAPAN
- B130 **Osimanti, C. E., Boardman, G. S., Kantelis, T. M., Dewar, E. W.** WHITE RIVER CHRONOFAUNA MAMMALS SHOWED MARGINAL NICHE RESPONSES TO SUBSTANTIAL CLIMATIC CHANGE
- B131 **Grass, A.** UNGULATE CRANIAL SHAPE AND THE TRANSITION FROM BROWSING COMMUNITIES TO GRAZING

- B132 **Ferrusquia-Villafranca, I., Perez-Crespo, V., Ruiz-Gonzalez, J., Martinez-Hernandez, E., Morales-Puente, P., Cienfuegos-Alvarado, E.** ON THE DIET OF *LEPTOMERYX* SP., LATE EOCENE OF NORTHWESTERN OAXACA, SOUTHEASTERN MEXICO
- B133 **Sileem, A. H., Sallam, H. M., Miller, E. R., Gunnell, G. F.** THE OLDEST CRANIODENTAL REMAINS OF ANTHRACOTHERIIDAE (MAMMALIA, ARTIODACTYLA) FROM THE PALEOGENE OF AFRICA
- B134 **Tsubamoto, T., Kunitatsu, Y., Sakai, T., Saneyoshi, M., Shimizu, D., Morimoto, N., Nakaya, H., Nakatsukasa, M.** TWO RARE ARTIODACTYL MAMMALS FROM THE UPPER MIOCENE NAKALI FORMATION OF KENYA, EAST AFRICA
- B135 **Hanson, D. A., Scannella, J.** SKULL VARIABILITY WITHIN A POPULATION OF THE LARGE OREODONT *MEGOREODON GRANDIS* FROM A SINGLE LOCALITY IN WEST CENTRAL MONTANA—A PRELIMINARY ASSESSMENT
- B136 **Beyers, J. E., Weideman, C., Curtis, D.** THE MILK CREEK MAMMAL FAUNA OF CENTRAL ARIZONA (LATE MIOCENE) WITH NEW TAXA AND AN ESTIMATE OF BODY MASS OF CAMELIDS AND ANTILOCAPRIDS USING ASTRAGALI AREAS
- B137 **Prothero, D. R.** A NEW GENUS OF HESPERHYINE PECCARY (ARTIODACTYLA, TAYASSUIDAE) FROM THE EARLY MIOCENE JOHN DAY BEDS OF OREGON: IMPLICATIONS FOR FOSSIL DATABASES
- B138 **Tuttle, K., Taylor, M. A., Naples, V.** ASCENDANCY OF THE ECOLOGICAL NICHE: COMPARATIVE FORELIMB MORPHOLOGY AND FUNCTION IN BODY FORM ECOMORPHS, THE HIPPOPOTAMIDS, PECCARIES, AND SUIDS
- B139 **Bales, G. S.** MORPHOSPACE AT AN INTERFACE: OCCIPUT SHAPE IN RHINOCEROTIDS
- B140 **Bogner, E. L., Simpson, E. L., Otto, R.** HERDING STRUCTURE OF THE EXTINCT NORTH AMERICAN RHINOCEROS *TELEOCERAS MAJOR*
- B141 **Schellhorn, R.** REMARKABLE CARPAL BONES IN *PROSANTORHINUS GERMANICUS* (MAMMALIA, RHINOCEROTIDAE)
- B142 **Zack, S. P., Tomiya, S.** NEW POSTCRANIA CLARIFY THE AFFINITIES OF THE UNUSUAL EOCENE MAMMAL *SIMIDECTES*
- B143 **Ahrens, H. E.** EVOLUTIONARY TRENDS IN THE POSTCRANIAL SKELETON AND LOCOMOTOR BEHAVIOR OF OXYAENIDAE AND HYAENODONTIDAE (MAMMALIA, LAURASIATHERIA)
- B144 **Borths, M. R., Roberts, E. M., Stevens, N. J.** THE FIRST HYAENODONT FROM THE LATE OLIGOCENE NSUNGWE FORMATION, RUKWA RIFT BASIN, TANZANIA: ECOLOGICAL DIVERSITY OF AFRO-ARABIAN MAMMALIAN CARNIVORES NEAR THE PALEOGENE-NEOGENE BOUNDARY
- B145 **Fowler, L. R., Rankin, B. D., Holroyd, P. A.** CARNIVORANS AND CREODONTANS FROM THE EARLY EOCENE WASATCH FORMATION OF SOUTHWESTERN WYOMING
- B146 **Janis, C. M., Panciroli, E., Stockdale, M.** CORRELATION BETWEEN CALCANEAL MORPHOLOGY AND LOCOMOTION IN CARNIVOROUS MAMMALS: INFERENCE OF LOCOMOTOR DIVERSITY WITHIN NIMRAVIDAE
- B147 **Orcutt, J. D., Hopkins, S. S., Cade, J. J.** TESTING THE DIAGNOSTIC POTENTIAL OF FELID POSTCRANIA USING GEOMETRIC MORPHOMETRICS
- B148 **Lyon, L. M., Wallace, S. C., Salesa, M. J., Siliceo, G., Anton, M.** ANATOMICAL COMPARISON OF THE POSTCRANIAL SKELETON OF THE EXTANT RED PANDA, *AILURUS FULGENS*, TO THE EXTINCT LATE MIOCENE AILURIDS *SIMOCYON BATALLERI* AND *PRISTINAILURUS BRISTOLI* (CARNIVORA, AILURIDAE)
- B149 **Robson, S. V., McLaughlin, W. N., Hopkins, S. S.** NEW SPECIES OF *HYAENICTITHERIUM* RECOVERED FROM THE LATE MIOCENE OF KYRGYZSTAN
- B150 **Bredenhoeft, K., Schubert, B. W.** A LATE RECORD OF *URSAVUS* (URSIDAE) FROM THE RATTLESNAKE FORMATION (EARLY HEMPHILLIAN, LATE MIOCENE) OF OREGON
- B151 **Schubert, B. W., Chatters, J. C., Arroyo-Cabrales, J., Soibelzon, L. H., Awe, J. J., Griffith, C. S., De Anda, G., Luna Erreguerena, P.** THE 'SOUTH AMERICAN' SHORT-FACED BEAR *ARCTOTHERIUM* FROM THE YUCATÁN PENINSULA OF BELIZE AND MEXICO: IMPLICATIONS FOR THEIR BIOGEOGRAPHY, PALEOBIOLOGY, EVOLUTION, AND EXTINCTION
- B152 **Paterson, R. S., Rybczynski, N., Kohno, N., Maddin, H. C.** A COMPLETE DESCRIPTION AND PHYLOGENETIC ANALYSIS OF *PUIJILA DARWINI*, A TRANSITIONAL PINNIPED FROM THE CANADIAN HIGH ARCTIC
- B153 **Garibay, A., Parham, J. F., Velez-Juarbe, J.** NEW SPECIES OF THE STEM SEAL *ALLODESMUS* FROM THE MIDDLE MIOCENE TOPANGA FORMATION OF ORANGE COUNTY
- B154 **Tonomori, W., Sawamura, H., Sato, T., Kohno, N.** NEW SKELETAL MATERIAL OF THE EXTINCT MIOCENE PINNIPED *ALLODESMUS* FROM JAPAN INDICATES THEIR NEW SYSTEMATICS AND LOCOMOTORY ADAPTATION

- B155 **Nagatsuka, M., Kohno, N.** FIRST RECORD OF *PROTEROZETES ULYSSES* (CARNIVORA, OTARIIDAE) FROM THE WESTERN NORTH PACIFIC, AND ITS IMPLICATIONS FOR PALEOBIOGEOGRAPHY OF THE PLEISTOCENE OTARIID PINNIPEDS IN THE NORTH PACIFIC
- B156 **Shabazi, S., Magallanes, I., Parham, J. F., Boessenecker, R. W.** FOSSIL WALRUS SKULLS FROM THE EMPIRE FORMATION OF OREGON REPRESENT A NEW LINEAGE FROM THE LATE MIOCENE AND SUPPORT A SIGNIFICANT LATE MIOCENE RADIATION OF ODOBENIDS
- B157 **Govender, R., Avery, G.** CARNIVORE DAMAGE ON SEAL FOSSILS FROM LANGEBAANWEG, WEST COAST OF SOUTH AFRICA
- B158 **Damron, B. M., Kallamata, E., Hartnett, M. M., Dewar, E. W.** ORBITAL MORPHOLOGY AND OPTIC CANAL SIZE DISTINGUISHES DIEL ACTIVITY PATTERN IN CARNIVORANS
- B159 **Brewer, P., Archer, M., Hand, S.** NEW WOMBATS FROM RIVERSLEIGH, NORTHWESTERN QUEENSLAND, INCLUDE POUCH YOUNG
- B160 **Spradley, J. P., Kay, R. F.** HOMOLGY-FREE DENTAL TOPOGRAPHY MEASURES CAN DISTINGUISH DIETARY CATEGORIES IN MARSUPIALS
- B161 **Rubinstein, J., Desantis, L.** DIETARY ECOLOGY OF DIPROTODONTIDS FROM SAHUL
- B162 **Boyd, C. A., Person, J. J.** NEW ADDITIONS TO THE LANCIAN MAMMALIAN FAUNA FROM SOUTHWEST NORTH DAKOTA
- B163 **Miyata, K., Azuma, Y., Luo, Z.** FIRST ARTICULATED MULTITUBERCULATE SKELETON FROM THE LOWER CRETACEOUS KITADANI FORMATION (TETORI GROUP), FUKUI, JAPAN
- B164 **Harper, T., Hu, H., Passey, B.** CARBON ISOTOPE COMPOSITIONS OF *KRYPTOBAATAR* ENAMEL AND ECOLOGICALLY WIDESPREAD ¹³C ENRICHMENT IN UPPER CRETACEOUS MONGOLIA
- B165 **Krause, D. W., Hu, Y., Hoffmann, S., Groenke, J. R., Schultz, J. A., Von Koenigswald, W.** THE BIZARRE DENTAL MORPHOLOGY OF A NEW GONDWANATHERIAN MAMMAL FROM THE LATE CRETACEOUS OF MADAGASCAR
- B166 **Plogschties, T., Martin, T.** A FIRST APPROACH TO EVALUATE SYMMETRODONT MASTICATION
- B167 **Wings, O., Martin, T., Schwermann, A.** THE TERRESTRIAL VERTEBRATE ASSEMBLAGE OF LANGENBERG QUARRY (LOWER SAXONY, NORTHERN GERMANY): A GLIMPSE OF A LATE JURASSIC ISLAND ECOSYSTEM

SATURDAY MORNING, OCTOBER 29, 2016

PODIUM SYMPOSIUM III: RECENT ADVANCES IN UNDERSTANDING THE ORIGINS AND EVOLUTION OF TETRAPOD ENDOTHERMY

GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB

MODERATORS: Adam K. Huttenlocker and Colleen G. Farmer

- 8:00 **Bakker, R. T., Zoehfeld, K. W., Temple, D., Flis, C.** ENDOTHERMY ACQUIRED: TRACKS AND PRODUCTIVITY EFFICIENCY SHOW ELEVATED ENERGY CONSUMPTION DURING ORIGIN OF DINOSAURS AND ADVANCED THERAPSID
- 8:15 **Knaus, P. L., Sander, P., Van Heteren, A. H., Lungmus, J. K.** BLOOD FLOW INDEX OF BASAL EUPELYCOSAURIA SUGGESTS ELEVATED METABOLIC RATES SINCE THE CARBONIFEROUS
- 8:30 **Shelton, C. D., Chinsamy-Turan, A.** POSTCRANIAL BONE HISTOLOGY OF DINOCEPHALIANS (THERAPSIDA) REVEALS PERIODIC RAPID RATES OF BONE DEPOSITION AND EVIDENCE OF A PATHOLOGY IN A TITANOSUCHID
- 8:45 **Seymour, R. S.** THE HOLES IN THE FOSSIL RECORD: FEMORAL NUTRIENT FORAMINA REVEAL THE ANTIQUITY OF ENDOTHERMY IN ARCHOSAURS, AND THE CONSEQUENCES OF REVERSION TO ECTOTHERMY WITHIN THE CROCODYLIAN LINEAGE
- 9:00 **Crompton, A. W., Owerkowicz, T., Bhullar, B. S., Musinsky, C.** ORIGIN OF THE DUAL FUNCTION OF RESPIRATORY TURBINATES IN MAMMALS
- 9:15 **Sander, P., Hayashi, S., Houssaye, A., Nakajima, Y., Sato, T., Wintrich, T.** THE INDEPENDENT EVOLUTION OF ENDOTHERMY IN PLESIOSAURIA: EVIDENCE FROM THEIR UNIQUE LONG BONE HISTOLOGY
- 9:30 **Legendre, L. J., Guénard, G., Botha-Brink, J., Cubo, J.** ENDOTHERMIC ARCHOSAURS? THE USE OF BONE HISTOLOGY IN PHYLOGENETIC RETRODICTIONS
- 9:45 **Tattersall, G. J.** FACULTATIVE THERMOGENESIS IN TEGU LIZARDS PROVIDES METABOLIC SUPPORT FOR THE PARENTAL CARE MODEL OF ENDOTHERMY
- 10:00 **BREAK**

SATURDAY MORNING, OCTOBER 29, 2016
TECHNICAL SESSION XV
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATORS: Matt Lamanna and Christopher Griffin

- 10:15 **McPhee, B. W., Bordy, E. M., Sciscio, L., Choiniere, J. N.** A REVISED SAUROPODOMORPH-BASED BIOSTRATIGRAPHY OF THE ELLIOT FORMATION, LATE TRIASSIC–EARLY JURASSIC, SOUTH AFRICA
- 10:30 **Lamanna, M. C., Martínez, R. D., Novas, F. E., Ridgely, R. C., Casal, G. A., Witmer, L. M.** ANATOMY, PHYLOGENY, AND PALEOBIOLOGY OF *SARMIENTOSAURUS MUSACCHIOI*, A TITANOSAURIAN SAUROPOD DINOSAUR FROM THE UPPER CRETACEOUS OF CENTRAL PATAGONIA, ARGENTINA
- 10:45 **Fronimos, J. A., Wilson, J. A.** COMPLEX, INTERDIGITATED SUTURES WITHIN SAUROPOD VERTEBRAE PROVIDED STABILITY IN SUPPORT OF LONG, HEAVY NECKS
- 11:00 **Gorscak, E.** CHARACTERIZING AFRICAN CRETACEOUS CONTINENTAL FAUNAS: PALEOBIOGEOGRAPHICAL PATTERNS AND NEW INSIGHTS FROM SUB-SAHARAN AFRICAN TITANOSAURIAN SAUROPOD DINOSAURS
- 11:15 **Upchurch, P., Mannion, P., Poropat, S. F.** MAXIMUM LIKELIHOOD ESTIMATION OF TITANOSAURIFORM SAUROPOD BIOGEOGRAPHIC HISTORY IN THE LATE CRETACEOUS
- 11:30 **Barrett, P. M., Lautenschlager, S., Brassey, C., Button, D. J.** COMPARATIVE BIOMECHANICS OF 'UNSPECIALISED' DINOSAUR HERBIVORES: CONVERGENT MORPHOLOGY DOES NOT PREDICT CRANIAL FUNCTION
- 11:45 **Yang, T., Van Heteren, A., Wiemann, J., Chen, C., Spiering, B.** COMMUNAL NESTING BEHAVIOR OF DINOSAURS REVEALED BY STATISTICAL ANALYSES OF PHOSPHORUS DISTRIBUTION IN, AND EXTERNAL MORPHOLOGY OF, EGGSHELLS
- 12:00 **Griffin, C., Nesbitt, S. J.** ANOMOLOUSLY HIGH VARIATION IN ONTOGENY IS THE ANCESTRAL DINOSAURIAN GROWTH CONDITION

SATURDAY MORNING, OCTOBER 29, 2016
TECHNICAL SESSION XVI
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Catherine Badgley and Anna Behrensmeyer

- 8:00 **Hopkins, S. S., Davis, E. B., Theodor, J. M., Famoso, N. A., McLaughlin, W. N., Reuter, D., Perdue, G., Oberg, D., Biedron, E., Walters, K.** APPLICATION OF QUANTITATIVE BIOSTRATIGRAPHIC METHODS TO THE RECORD OF TERRESTRIAL VERTEBRATES: CAN WE GAIN NEW INSIGHTS?
- 8:15 **Badgley, C., Smiley, T. M., Holt, W. E., Rasbury, E. T.** GREAT BASIN MAMMAL DIVERSITY AND TECTONIC HISTORY
- 8:30 **Calede, J. J.** QUANTITATIVE BIOSTRATIGRAPHY AND FAUNAL TURNOVER OF THE ARIKAREAN-AGED CABBAGE PATCH BEDS OF WESTERN MONTANA (RENOVA FORMATION)
- 8:45 **Famoso, N. A., Samuels, J. X., Hopkins, S. S., Davis, E. B., Emery, M.** UPDATED BIOSTRATIGRAPHY OF THE TURTLE COVE MEMBER (JOHN DAY FORMATION) IN THE JOHN DAY BASIN, OREGON
- 9:00 **Manthi, F. K., Plavcan, J., Ward, C. V.** THE PALEOECOLOGY OF THE PLIOCENE SITE OF KANAOI, NORTHWESTERN KENYA
- 9:15 **Villaseñor, A., Behrensmeyer, A. K., Bobe, R.** SPATIAL VARIATION IN PLIOCENE PALEOHABITATS IN THE TURKANA BASIN, KENYA: IMPLICATIONS FOR LARGE-MAMMAL PALEOCOMMUNITY ASSEMBLY
- 9:30 **Du, A., Behrensmeyer, A. K., Bobe, R.** APPLYING THE ECOLOGICAL CORE–TRANSIENT SPECIES PARADIGM TO PLIO–PLEISTOCENE FOSSIL MAMMALS IN THE OMO–TURKANA BASIN, EAST AFRICA
- 9:45 **Dumouchel, L.** PALEOECOLOGICAL ANALYSES OF FOSSIL BOVIDAE FROM PLIOCENE HOMININ SITES FROM THE OMO-TURKANA BASIN, EASTERN AFRICA
- 10:00 **BREAK**
- 10:15 **Behrensmeyer, A. K., Du, A., Villaseñor, A., Patterson, D., Hatala, K., Roach, N. T., Richmond, B. G., Bobe, R.** BODY FOSSILS, TRACKWAYS AND STABLE ISOTOPES: SYNTHESIZING PLEISTOCENE PALEOECOLOGY IN THE OKOTE MEMBER, KOOBI FORA FORMATION, KENYA
- 10:30 **Robinson, J. R.** THINKING LOCALLY: SPATIAL AND TEMPORAL VARIATION IN LATE QUATERNARY PALEOENVIRONMENTS OF SUB-SAHARAN AFRICA INFERRED FROM UNGULATE ISOTOPIC ECOLOGY
- 10:45 **Jukar, A. M.** TURNOVER OF LARGE HERBIVOROUS MAMMALS IN THE INDIAN SUBCONTINENT DURING THE PLIO-PLEISTOCENE
- 11:00 **Deng, T., Wang, X., Li, Q., Tseng, Z., Hou, S.** QUATERNARY FAUNAL REPLACEMENT IN NORTHERN CHINA BY PLIOCENE MAMMALS FROM THE TIBETAN PLATEAU
- 11:15 **McLaughlin, W. N., Hopkins, S. S., Davis, E. B.** TAPHONOMY OF NEWLY DISCOVERED NEOGENE MASS DEATH ASSEMBLAGES IN KOCHKOR BASIN, KYRGYZSTAN

- 11:30 **Zazula, G. D., Macphee, R. D., Hall, E., Southon, J.** NORTHWARD DISPERSAL OF LARGE MAMMALS INTO THE ARCTIC AND SUBARCTIC DURING THE LAST INTERGLACIATION (SANGAMONIAN)
- 11:45 **Stegner, M.** FLUCTUATION IN SMALL MAMMAL COMMUNITY STRUCTURE DURING THE LATE HOLOCENE IN SOUTHEASTERN UTAH
- 12:00 **Pineda-Munoz, S., Jukar, A. M., Ete Working Group, Lyons, S. K.** HUMAN IMPACT ON NORTH AMERICAN MAMMAL FAUNAS

SATURDAY MORNING, OCTOBER 29, 2016
TECHNICAL SESSION XVII
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Patrick Druckenmiller and Judy Massare

- 8:00 **Metz, E. T., Druckenmiller, P. S., Carr, G.** CRANIAL ANATOMY OF A NEW SPECIES OF THALATTOSAUR BASED ON THREE DIMENSIONAL MATERIAL FROM THE CARNIAN VESPER FORMATION OF CENTRAL OREGON
- 8:15 **Druckenmiller, P. S., Kelley, N., Baichtal, J., May, K., Metz, E.** AN EXCEPTIONAL NEW THALATTOSAUR (REPTILIA) FROM THE UPPER TRIASSIC (NORIAN) HOUND ISLAND VOLCANICS OF SOUTHEASTERN ALASKA
- 8:30 **Jiang, D., Motani, R., Tintori, A., Rieppel, O. C., Fraser, N. C.** A LARGE EARLY TRIASSIC ICHTHYOSAURIFORM FROM CHAOHU OF SOUTH CHINA AND FAST RADIATION OF MARINE REPTILES IN THE WAKE OF THE END-PERMIAN EXTINCTION
- 8:45 **Zhou, M., Jiang, D., Motani, R., Sun, Z., Ji, C.** A THREE-DIMENSIONAL SKULL OF *CHAOHUSAURUS* (REPTILIA, ICHTHYOPTERYGIA) FROM THE LOWER TRIASSIC OF ANHUI, CHINA
- 9:00 **Wolniewicz, A. S., Motani, R., Morrison, I., Benson, R. B.** A LARGE MACROPREDATORY ICHTHYOSAUR FROM THE LATE TRIASSIC OF WILLISTON LAKE (BRITISH COLUMBIA, CANADA) INDICATES HIGH ECOLOGICAL DIVERSITY OF BASAL PARVPELVIA
- 9:15 **Kelley, N. P., Irmis, R., Rasmussen, C., Depolo, P. E., Pyenson, N.** BEYOND THE *SHONISAURUS* DEATH CULT: NEW INSIGHTS INTO THE ECOLOGY AND LIFE HISTORY OF THE EARLIEST GIGANTIC MARINE TETRAPOD
- 9:30 **Lawrence Wujek, J.** WHAT MAKES AN *ICHTHYOSAURUS*? A MORPHOMETRIC AND PHYLOGENETIC ANALYSIS OF THE CLASSIC LOWER JURASSIC GENUS
- 9:45 **Massare, J. A., Lomax, D. R., Mistry, R. T.** THE RETURN OF *PROTOICHTHYOSAURUS*: A VALID SISTER TAXON OF *ICHTHYOSAURUS* (REPTILIA, ICHTHYOSAURIA)
- 10:00 **BREAK**
- 10:15 **Stubbs, T. L., Benton, M. J.** MORPHOLOGICAL DIVERSIFICATION DRIVES ADAPTIVE RADIATION IN SAUROPTERYGIAN MARINE REPTILES
- 10:30 **Wang, W., Li, C., Wu, X.** AN ADULT SPECIMEN OF *SINOCYAMODUS XINPUENSIS* (SAUROPTERYGIA: PLACODONTIA), WITH NEW INFORMATION ON CYAMODONTOID ONTOGENY
- 10:45 **Motani, R., Jiang, D., Rieppel, O. C., Xue, Y., Tintori, A.** TESTING SEXUAL SELECTION OF FOSSIL VERTEBRATES WITH SEXUAL SIZE DIMORPHISM AND ADULT SEX RATIO, WITH AN EXAMPLE OF *KEICHOUSAURUS HUI* (REPTILIA, SAUROPTERYGIA)
- 11:00 **Roberts, A. J., Druckenmiller, P. S., Delsett, L. L., Cordonnier, B., Hurum, J. H.** THE CRANIAL ANATOMY OF A NEW CRYPTOCLIDIDS PLESIOSAUR FROM THE JURASSIC-CRETACEOUS BOUNDARY OF CENTRAL SPITSBERGEN, SVALBARD, NORWAY
- 11:15 **Muscutt, L. E., Dyke, G., Ganapathisubramani, B., Weymouth, G. D., Palmer, C.** WHY DID PLESIOSAURS HAVE FOUR FLIPPERS? AN EXPERIMENTAL APPROACH
- 11:30 **Wintrich, T., Sander, P. M.** THE FUNCTION OF THE PLESIOSAUR NECK—A SMART INVENTION FOR THE AQUATIC ENVIRONMENT
- 11:45 **Neenan, J. M., Benson, R. B.** THE EVOLUTION OF INNER EAR MORPHOLOGY IN SAUROPTERYGIA
- 12:00 **Driscoll, D. A., Dunhill, A. M., Stubbs, T. L., Benton, M. J.** FOSSIL COMPLETENESS IN UPPER CRETACEOUS MARINE REPTILES

SATURDAY AFTERNOON, OCTOBER 29, 2016
TECHNICAL SESSION XVIII
GRAND AMERICA HOTEL, IMPERIAL BALLROOM AB
MODERATORS: Derek Larson and Alexander Dececchi

- 1:45 **Fabbri, M., Pritchard, A., Hanson, M., Mongiardino, N. K., Hoffman, E., Balanoff, A., Bever, G., Norell, M. A., Abzhanov, A., Bhullar, B. S.** SKULL ROOF AND BRAIN INTERRELATIONSHIP: MACROEVOLUTIONARY AND DEVELOPMENTAL PROSPECTIVES

- 2:00 **Marsh, A. D., Parker, W. G., Langer, M. C., Nesbitt, S. J.** AN ANATOMICAL AND PHYLOGENETIC REVISION OF *CHINDESAURUS BRYANSMALLI* FROM PETRIFIED FOREST NATIONAL PARK AND ITS IMPLICATION FOR THE LATE TRIASSIC DINOSAURIAN RECORD OF NORTH AMERICA
- 2:15 **Carrano, M. T., Rauhut, O. W.** THE THEROPOD DINOSAUR *ELAPHROSAURUS BAMBERGI* JANENSCH, 1920, FROM THE LATE JURASSIC OF TENDAGURU, TANZANIA
- 2:30 **Wang, S., Stiegler, J., Amiot, R., Clark, J. M., Balanoff, A. M., Xu, X.** CRANIAL ONTOGENETIC VARIATION IN THE LATE JURASSIC CHINESE CERATOSAUR *LIMUSAURUS INEXTRICABILIS*
- 2:45 **Smith, D. K., Sanders, R., Wedel, M. J., Wolfe, D. G.** BASICRANIAL AND VERTEBRAL PNEUMATICITY IN THERIZINOSAURS: IMPLICATIONS FOR DEVELOPMENT AND FUNCTION
- 3:00 **Choiniere, J. N., Tan, Q., Benson, R. B., Clark, J. M., Sullivan, C., Tan, L., Xu, X.** TWO NEW EARLY CRETACEOUS ALVAREZSAURIANS AND CONSERVED PATTERNS OF FORELIMB REDUCTION IN THEROPODS
- 3:15 **Holtz, T. R.** EVOLUTION OF POTENTIAL CURSORIAL ADAPTATIONS IN MESOZOIC THEROPODA: PHYLOGENETIC, GEOCHRONOLOGIC, AND BIOGEOGRAPHIC DISTRIBUTIONS
- 3:30 **Dececchi, A., Holtz, T. R., Larsson, H. C., Habib, M.** NOT SO FAST: A RE-EVALUATION OF CURSORIALITY IN THEROPODS
- 3:45 **Bykowski, R. J., Polly, P.** ECOLOGICAL ONTOGENY AND FUNCTIONAL CHANGES IN THE GROWTH OF TYRANNOSAURIDS
- 4:00 **Larson, D. W., Brown, C. M., Therrien, F., Evans, D. C.** SUB-MILLION YEAR EVOLUTIONARY PATTERNS IN SMALL THEROPOD DINOSAUR LINEAGES CORRESPOND TO PERIODS OF CLIMATIC CHANGE IN THE LATE CRETACEOUS

SATURDAY AFTERNOON, OCTOBER 29, 2016
TECHNICAL SESSION XIX
GRAND AMERICA HOTEL, IMPERIAL BALLROOM CD
MODERATORS: Michelle Spaulding and David Grossnickle

- 1:45 **Schultz, J. A., Zeller, U., Luo, Z.** THE ANATOMY OF THE MEMBRANOUS LABYRINTH OF MONOTREMES AND IMPLICATIONS FOR THE EVOLUTION OF THE MAMMALIAN INNER EAR
- 2:00 **Brannick, A. L., Wilson, G. P., Varricchio, D. J., Ekdale, E. G.** NESTLED AMONG DINOSAUR EGGS: NEW *ALPHADON* SPECIMENS FROM EGG MOUNTAIN AND THEIR IMPLICATIONS FOR METATHERIAN EVOLUTION
- 2:15 **Grossnickle, D. M.** INCREASED TRANSVERSE JAW MOVEMENT DURING MASTICATION WAS A CRITICAL EVOLUTIONARY CHANGE IN EARLY MAMMALS
- 2:30 **Jäger, K. R., Gill, P., Corfe, I. J., Martin, T.** 3D ANALYSIS OF THE CHEWING CYCLE AND DENTAL OCCLUSION OF *MORGANUCODON WATSONI*
- 2:45 **Mao, F., Wang, Y., Bi, S., Meng, J.** TOOTH ENAMEL MICROSTRUCTURES OF THREE JURASSIC EUHARAMIYIDANS AND IMPLICATIONS FOR PRISM EVOLUTION IN ALLOTHERIAN MAMMALS
- 3:00 **Huttenlocker, A. K., Grossnickle, D. M., Schultz, J. A., Kirkland, J. I., Luo, Z.** A LATE-SURVIVING STEM MAMMAL FROM THE CRETACEOUS OF UTAH
- 3:15 **Cohen, J., Cifelli, R.** EMERGENCE OF THERIAN MAMMAL GROUPS IN THE LATE CRETACEOUS OF NORTH AMERICA: NEW EVIDENCE FROM THE TURONIAN OF UTAH
- 3:30 **Spaulding, M., Shine, H.** EXAMINING THE ORIGIN OF PLACENTAL MAMMALS VIA 'PSEUDO-FOSSILIZATION'
- 3:45 **Bonnan, M. F., Shulman, J., Horner, A., Brainerd, E.** WHAT CAN RAT FORELIMB MOVEMENTS TEACH US ABOUT EARLY EUTHERIAN MAMMAL LOCOMOTOR HABITS?
- 4:00 **Webb, N. M.** TAKING IT A STEP FURTHER: THE ASSESSMENT OF STRIDING BIPEDALISM IN EXTINCT KANGAROOS

SATURDAY AFTERNOON, OCTOBER 29, 2016
TECHNICAL SESSION XX
GRAND AMERICA HOTEL, GRAND BALLROOM A
MODERATORS: Hillary Maddin and Jason Pardo

- 1:45 **Maddin, H. C., Scott, D., Skilliter, D., Grey, M., Adams, K., Reisz, R. R.** AN EXQUISITELY PRESERVED, NEW EUCACOPINE DISSOROPHID (TEMNOSPONDYLI) FROM THE CARBONIFEROUS OF NOVA SCOTIA, CANADA
- 2:00 **Rasmussen, C., Huttenlocker, A. K., Irmis, R.** A NEW SPECIES OF *ERYOPS* FROM THE LOWER PERMIAN CEDAR MESA SANDSTONE (CUTLER GROUP) OF SOUTHEASTERN UTAH AND ITS IMPLICATIONS FOR THE PHYLOGENY AND BIOGEOGRAPHY OF ERYOPIDS
- 2:15 **Atkins, J., Reisz, R. R., Fröbisch, N. B., Maddin, H. C.** EARLY PERMIAN AMPHIBAMID *PASAWIOOPS* (DISSOROPHOIDEA, AMPHIBAMIDAE): AN ONTOGENETIC SERIES

- 2:30 **Carter, A. M., Sallan, L., Hsieh, T., Dodson, P.** JUST HOW DIFFERENT? QUANTIFYING VERTEBRAL DIVERSITY IN TEMNOSPONDYLS
- 2:45 **Pardo, J. D., Small, B. J., Huttenlocker, A. K.** A CAECILIAN-LIKE TEMNOSPONDYL FROM THE TRIASSIC CHINLE FORMATION OF COLORADO AND ITS BEARING ON THE ORIGINS OF LISSAMPHIBIA
- 3:00 **Marjanović, D.** TEMNOSPONDYLS, LISSAMPHIBIANS, AND MIDDLE EARS
- 3:15 **Tarailo, D. A.** TEMNOSPONDYL ECOMORPHOLOGICAL DIVERSITY ACROSS THE PERMIAN–TRIASSIC BOUNDARY IN THE KAROO BASIN, SOUTH AFRICA
- 3:30 **Beightol, C. V., Sidor, C. A., Steyer, J., Smith, R., Peacock, B., Huttenlocker, A. K.** WERE GONDWANAN TEMNOSPONDYLS MORE ENDEMIC THAN CONTEMPORANEOUS AMNIOTES DURING THE PERMIAN AND TRIASSIC?
- 3:45 **Mercier, G. K., Demar, D. G., Wilson, G. P.** ANURANS, CAUDATES, AND ALBANERPETONTIDS (LISSAMPHIBIA) REVEAL DIFFERENTIAL PATTERNS OF TURNOVER AND EXTINCTIONS DURING THE END-CRETACEOUS MASS EXTINCTION, NORTHEASTERN MONTANA, USA
- 4:00 **Henrici, A. C., Druschke, P., Bonde, J., Hilton, R. P., Snell, K.** *EORUBETA NEVADENSIS* REVEALED: NEW SPECIMENS OF THIS ENIGMATIC ANURAN FROM THE LATE CRETACEOUS–MIDDLE EOCENE SHEEP PASS FORMATION OF EASTERN NEVADA SHED LIGHT ON ITS PHYLOGENETIC POSITION

SATURDAY, OCTOBER 29, 2016

POSTER SESSION IV

GRAND AMERICA HOTEL, IMPERIAL BALLROOM FOYER

Authors must be present from 4:15 – 6:15 p.m.

Posters must be removed by 6:30 p.m.

Posters Associated with Symposium III: Recent Advances in Understanding the Origins and Evolution of Tetrapod Endothermy

- IB1 **Grady, J. M.** ASSESSING THE ECOLOGICAL AND EVOLUTIONARY DRIVERS OF ENDOTHERMY
- IB2 **Owerkowicz, T., Felbinger, K. L., Eme, J., Blank, J. M., Hicks, J. W.** NUTRIENT FORAMEN SIZE DOES NOT PREDICT EXERCISE OR GROWTH PHYSIOLOGY IN AN EXPERIMENTAL ARCHOSAUR MODEL WITH IN-PARALLEL AND IN-SERIES CIRCULATION

EXHIBIT HALL, GRAND BALLROOM

Regular Session Posters

- B70 **Spencer, M. R.** ESTIMATING THE ANCESTRAL MORPHOLOGY OF MAJOR ORNITHISCHIAN CLADES IN A SPATIOTEMPORAL CONTEXT
- B71 **Morgan, K., Kirkland, J. I., Suarez, C. A., Pittman, J.** FIRST OCCURRENCE OF AN ARKANSAS ANKYLOSAUR
- B72 **Buskuskie, T. R., Wilson, L. E.** OSTEOHISTOLOGY OF *NIORARASAUROS COLEII* (DINOSAURIA, NODOSAURIDAE)
- B73 **Burns, M. E., Ebersole, J. A.** JUVENILE APPALACHIAN NODOSAUR MATERIAL (NODOSAURIDAE, ANKYLOSAURIA) FROM THE LOWER CAMPANIAN LOWER MOOREVILLE CHALK OF ALABAMA
- B74 **Penkalski, P.** DOUBLE OR NOTHING: AN ANKYLOSAURID RIOT IN NORTHERN LARAMIDIA, WITH NEW DATA ON CERVICAL ARMOUR MORPHOLOGY AND DISPLAYS
- B75 **Hill, R. V., Demic, M., Bever, G., Norell, M. A.** ONTOGENETIC ENDPOINTS AND TAXONOMIC IDENTITIES OF ANKYLOSAURID DINOSAURS FROM THE DJADOKHTA FORMATION OF SOUTHERN MONGOLIA
- B76 **Tumanova, T., Penkalski, P.** THE LAST ANKYLOSAURID FROM ASIA: *TARCHIA* OR *SAICHANIA*?
- B77 **Zanno, L. E., Makovicky, P. J.** A NEW SPECIES OF EARLY DIVERGING ORNITHOPOD INCREASES THE PALEOBIODIVERSITY OF HERBIVOROUS DINOSAURS IN LATE CRETACEOUS ECOSYSTEMS IN NORTH AMERICA
- B78 **Poole, K.** A SPECIMEN-LEVEL PHYLOGENY OF WEALDEN IGUANODONTIANS: IMPLICATIONS FOR TAXONOMY
- B79 **Knoll, F., Lautenschlager, S., Rayfield, E. J., Espílez, E., Mampel, L., Alcalá, L.** PALEONEUROLOGY OF THE SPANISH IGUANODONT *PROA VALDEARINNOENSIS*
- B80 **Shibata, M., Kawabe, S., Chokchaloemwong, D., Jintasakul, P., Miyata, K., Azuma, Y.** ENDOCRANIAL ANATOMY OF *SIRINDHORNIA KHORATENSIS* (ORNITHOPODA, HADROSAUROIDEA) AND ITS IMPLICATION
- B81 **Fiorillo, A. R., Tykoski, R. S.** MANUS AND PES JUVENILE HADROSAUR TRACKS (LOWER CANTWELL FORMATION, UPPER CRETACEOUS, DENALI NATIONAL PARK, ALASKA): IMPLICATIONS FOR BODY ORIENTATION IN JUVENILE HADROSAURS
- B82 **Bramble, K. K., Currie, P. J.** A RARE ABNORMALITY IN A HADROSAUR DENTAL BATTERY FROM THE DINOSAUR PARK FORMATION (UPPER CAMPANIAN) OF ALBERTA, CANADA

- B83 **Lowi-Merri, T. M., Evans, D. C.** MORPHOMETRIC AND BIOSTRATIGRAPHIC ANALYSIS OF CRANIAL VARIATION IN *GRYPOSAURUS* (ORNITHISCHIA, HADROSAURIDAE) FROM THE DINOSAUR PARK FORMATION (CAMPANIAN)
- B84 **Stein, K., Bolotski, Y., Bolotski, I., Snoeck, C., Dewinter, N., Tsogtbaatar, K., Barsbold, R., Hayashi, S., Godefroit, P., Claeys, P.** PRELIMINARY RESULTS ON THE BONE HISTOLOGY OF HADROSAURS FROM THE LATEST CRETACEOUS OF FAR EASTERN RUSSIA
- B85 **Takasaki, R., Chiba, K., Kobayashi, Y., Currie, P. J.** OSTEOHISTOLOGICAL ONTOGENETIC ASSESSMENT AND PHYLOGENETIC ANALYSIS OF *NIPPONOSAURUS SACHALINENSIS* (DINOSAURIA, HADROSAURIDAE)
- B86 **Siviero, B., Brand, L., Chadwick, A.** BONE MODIFICATIONS INDICATING PATHOLOGY WITHIN A MONOSPECIFIC HADROSAUR BONEBED FROM THE LANCE FORMATION (MAASTRICHTIAN), WYOMING
- B87 **Zorigt, B., Horner, J. R.** INTRASKELETAL HISTO-VARIABILITY IN THE HIND LIMB OF *PSITTACOSAURUS MONGOLIENSIS*
- B88 **Varriale, F. J.** QUANTITATIVE DENTAL MICROWEAR SUPPORTS CLINOLINEAL MASTICATION IN *PSITTACOSAURUS* (ORNITHISCHIA, CERATOPSIA)
- B89 **Morschhauser, E. M.** A NEW PHYLOGENETIC AND BIOGEOGRAPHIC ANALYSIS OF BASAL NEOCERATOPSIA (ORNITHISCHIA, DINOSAURIA) RECOVERS UNCERTAIN GEOGRAPHIC ORIGIN OF CERATOPSOIDEA
- B90 **Malinowski, B. L., Rooney, L. A., Schein, J. P., Poole, J. C.** A NEW PARTIAL SKELETON OF *LEPTOCERATOPS GRACILIS* FROM THE LANCE FORMATION OF WYOMING, USA
- B91 **Ryan, M. J., Chiba, K., Evans, D. C., Mallon, J., Fiorillo, A. R., Tykoski, R. S.** EVOLUTION OF PACHYROSTRAN CENTROSAURINES IN THE LATE CRETACEOUS OF NORTHERN LARAMIDIA
- B92 **Chiba, K., Ryan, M. J., Loewen, M., Evans, D. C.** NEW MATERIAL OF THE CENTROSAURINE *MEDUSACERATOPS LOKII* (DINOSAURIA, ORNITHISCHIA) WITH IMPLICATIONS FOR POSTORBITAL HORNCORE SIZE EVOLUTION IN BASAL CERATOPSIDS
- B93 **Wilson, J. P., Scannella, J. B.** COMPARATIVE CRANIAL OSTEOLOGY OF SUBADULT CENTROSAURINE DINOSAURS FROM THE TWO MEDICINE FORMATION, MONTANA
- B94 **Scannella, J.** NEW INSIGHTS INTO THE EVOLUTION OF THE PREMAXILLA IN THE TRICERATOPSINI (CERATOPSIDAE, CHASMOSAURINAE) AS REVEALED BY A SPECIMEN FROM THE BASAL SANDSTONE OF THE HELL CREEK FORMATION, MONTANA
- B95 **Bastiaans, D., Trapman, T., Guliker, M., Kaskes, P., Schulp, A. S.** MULTIGENERATIONAL ASSEMBLAGE OF *TRICERATOPS* FROM THE NEWCASTLE AREA, WYOMING, USA—AN IN-DEPTH ANALYSIS OF CRANIAL AND POST-CRANIAL ONTOGENESIS
- B96 **Mears, E. M., Brusatte, S. L., Fraser, N. C.** CROCODYLIAN CONTROVERSY: A RE-DESCRIPTION OF THE DEBATED TAXON *TERRESTRISUCHUS GRACILIS* AND ITS POSITION WITHIN BASAL CROCODYLOMORPHA
- B97 **Trapman, T.** REDESCRIPTION OF A TELEOSAURID SKULL (CROCODYLOMORPHA, THALATTOSUCHIA) FROM THE LIASSIC OF HOLZMADEN, GERMANY
- B98 **Yi, H., Young, M., Tennant, J. P., Hudson, J., Brusatte, S.** AN ENIGMATIC CROCODYLIFORM FROM THE MIDDLE JURASSIC OF SCOTLAND, UK, AND ITS IMPLICATIONS FOR THE EVOLUTIONARY TRANSITION FROM SMALL-BODIED NEOSUCHIANS TO EUSUCHIA
- B99 **Hester, D. A., Brochu, C. A., Turner, A. H.** A RE-EVALUATION OF THE CROCODYLIFORM *BATRACHOMIMUS PASTOSBONENSIS* FROM THE LATE JURASSIC OF BRAZIL: IMPLICATIONS FOR NEOSUCHIAN PHYLOGENY, BIOGEOGRAPHY, AND DIVERGENCE TIMING
- B100 **Salih, K. O., Evans, D., Bussert, R., Klein, N., Nafi, M., Eisawi, A., Mueller, J.** A NEW LONG-SNOUTED DYROSAURID (MESOEUCROCODYLIA) FROM THE LATE CRETACEOUS OF NORTH CENTRAL SUDAN
- B101 **Kuzmin, I., Skutschas, P.** A REVIEW OF THE LARGE NEOSUCHIAN *KANSAJSUCHUS* (CROCODYLIFORMES, NEOSUCHIA) FROM THE LATE CRETACEOUS OF ASIA
- B102 **Geroto, C. F.** TESTING THE PALEOBIOGEOGRAPHICAL HISTORY OF MESOEUCROCODYLIA (CROCODYLOMORPHA, CROCODYLIFORMES) USING RASP (RECONSTRUCT ANCESTRAL STATE IN PHYLOGENIES) SOFTWARE
- B103 **Saber, S., Sertich, J., Sallam, H., Ouda, K., O'Connor, P. M.** ENIGMATIC CROCODYLIFORM REMAINS FROM THE UPPER CRETACEOUS QUSEIR FORMATION OF DAKHLA OASIS, WESTERN DESERT, EGYPT
- B104 **Crawford, D. S., Evans, D. C., Brochu, C. A.** A NEW RECORD OF A LARGE GAVIALOID (CROCODYLIA) FROM THE HELL CREEK FORMATION (UPPER CRETACEOUS) OF SOUTH DAKOTA, USA
- B105 **Adams, A. J., Brochu, C. A.** A REASSESSMENT OF THE LATE EOCENE–EARLY OLIGOCENE CROCODYLIDS "*CROCODYLUS*" *MEGARHINUS* AND "*CROCODYLUS*" *ARTICEPS* FROM THE FAYUM PROVINCE, EGYPT
- B106 **Cossette, A. P., Brochu, C. A.** A NEW ALLIGATOROID FROM THE EARLY PALEOGENE BLACK PEAKS FORMATION OF TEXAS

- B107 **Brochu, C. A.** PHYLOGENETIC RESPONSE TO ENVIRONMENTAL CHANGE IN NEOGENE AND QUATERNARY CROCODYLIANS FROM THE VICTORIA AND TURKANA BASINS OF KENYA
- B108 **Scheyer, T. M., Delfino, M.** LATE MIOCENE CAIMANINES (CROCODYLIA, ALLIGATOROIDEA) FROM THE URUMACO FORMATION, VENEZUELA
- B109 **Farrugia, P., Polly, P., Njau, J.** AN ANALYSIS OF SHAPE DIFFERENCES IN CROCODYLIAN DENTITION USING GEOMETRIC MORPHOMETRICS
- B110 **English, L. T.** WHY GROW ARMOR AFTER THE PREDATORS ARE GONE? LATE ONTOGENETIC DEVELOPMENT OF CROCODYLIAN OSTEODERMS WITH BEHAVIORAL IMPLICATIONS
- B111 **Wilberg, E., Brochu, C. A.** EXPLORING THE EVOLUTIONARY STRUCTURE AND TIMING OF MAJOR HABITAT SHIFTS IN CROCODYLOMORPHA
- B112 **Fisher, C., Sweetman, M., Snively, E.** THE CROCODYLIAN SECONDARY PALATE DIRECTLY FACILITATES DUROPHAGY IN CONCERT WITH TENSED LIGAMENTS
- B113 **Stockdale, M., Bronzati, M., Andrade, M., Benton, M. J.** MACROEVOLUTION OF THE CROCODYLOMORPHA
- B114 **Figueiredo, R. G., Pinheiro, A. E., Rodrigues, T., Leite, Y. L., Campos, D. A., Kellner, A. W.** NOTES ON THE BASICRANIUM, OCCIPUT, AND BRAINCASE ANATOMY OF *SAHITISUCHUS FLUMINENSIS* (CROCODYLIFORMES, NOTOSUCHIA) AND ITS PHYLOGENETIC IMPLICATIONS
- B115 **Farlow, J. O., Robinson, N. J., Kumagai, C. J., Paladino, F. V., Falkingham, P. L., Martin, A. J., Elsey, R. M.** TRACKWAYS OF THE AMERICAN CROCODYLE (*CROCODYLUS ACUTUS*), NORTHWEST COSTA RICA: IMPLICATIONS FOR ARCHOSAURIAN ICNIOLOGY
- B116 **Drumheller, S. K., Vliet, K. A., Darlington, J.** THE CROCODYLIAN DEATH ROLL: THE UTILITY OF MULTIPLE MODERN ANALOGUES IN PALEONTOLOGICAL RESEARCH OF BEHAVIOR
- B117 **Beardmore, S. R.** AN INVESTIGATION OF THE IMPACT OF BODY SIZE ON SKELETAL PRESERVATION USING THE ICHTHYOSAUR *STENOPTERYGIUS*
- B118 **Zhang, Q., Wang, J., Lin, W.** A 3D PRELIMINARY RECONSTRUCTION OF THE SKULL OF *LARIOSAUROS HONGGUOENSIS* (REPTILIA, SAUROPTERYGIA) BASED ON MICRO-COMPUTED TOMOGRAPHIC DATA
- B119 **He, S., Lin, W.** MATURATION AND GROWTH PATTERN OF *KEICHOUSAURUS HUI* (REPTILIA, SAUROPTERYGIA) REVEALED BY LONG BONE HISTOLOGY AND GROWTH CURVE
- B120 **Wang, J., He, S., Lin, W.** NEW INFORMATION ON SOCIAL BEHAVIOR IN *KEICHOUSAURUS HUI*, A PACHYPLEUROSAUR FROM THE MIDDLE TRIASSIC OF GUIZHOU, SOUTH CHINA
- B121 **Wildman, M., Graham, M. R., Harrington, C., Nicklin, C., Tranter, S. J., Moore-Fay, S., Wills, S., Middleton, H., Benson, R. B., Ketchum, H. F.** AN IMPORTANT PLESIOSAUR DISCOVERY FROM THE OXFORD CLAY: HOW COOPERATION BETWEEN SCIENCE AND INDUSTRY IS BENEFITTING PALAEONTOLOGY
- B122 **Krahl, A., Witzel, U., Sander, M. P.** PLESIOSAUR HUMERUS MUSCLE RECONSTRUCTIONS AND FINITE ELEMENT ANALYSES IN COMPARISON TO SEA TURTLES REVEALS OPTIMIZED BIOLOGICAL LIGHT-WEIGHT STRUCTURES
- B123 **Morgan, D. J., O'Keefe, F.** REVISION OF POLYCOTYLID PLESIOSAUR SYSTEMATICS (SAUROPTERYGIA, PLESIOSAURIA) AND DESCRIPTION OF THE AXIAL OSTEOLOGY OF THE WALLACE RANCH POLYCOTYLIDS
- B124 **Boudreau, D. M., O'Keefe, F.** ONTOGENETIC HISTOLOGY OF POLYCOTYLID LONG BONES AND IMPLICATIONS FOR PHYSIOLOGY
- B125 **Smith, E. A., Kinyon Boodhoo, T. A., Chure, D. J.** UNUSUAL EXHIBIT PROPOSALS FOR THE CARNEGIE QUARRY AT DINOSAUR NATIONAL MONUMENT
- B126 **Wilhite, R., Britt, B. B., Curtice, B., Scheetz, R. D., Chure, L., Chure, D. J.** THE MCINTOSH PALEONTOLOGICAL ARCHIVE: MAKING A LIFETIME OF RESEARCH AVAILABLE TO THE WORLD ONLINE
- B127 **Chure, D. J., Ridgwell, N.** IN SITU FOSSIL VERTEBRATE EXHIBITS (ISFVE): A GLOBAL SURVEY OF THEIR DIVERSITY AND APPROACHES TO THEIR PROTECTION AND PRESERVATION
- B128 **Mizuno, F., Fujiwara, S.** COMPARISON BETWEEN TERRESTRIAL MAMMAL ANKLE JOINT AND FOOT BONE MORPHOLOGY
- B129 **Figueirido, B., Palmqvist, P., Pérez-Claros, J., Janis, C. M.** AN ECOMORPHOLOGICAL CHARACTERIZATION OF NORTH AMERICAN CENOZOIC MAMMALIAN EVOLUTIONARY FAUNAS
- B130 **Tornow, M. A., Arbor, T. C.** NEW APATEMYIDS FROM THE CHADRONIAN OF SIOUX COUNTY, NEBRASKA WITH REASSESSMENT OF SPECIMENS FROM RABEN RANCH
- B131 **Birlenbach, D. M., Fox, D. L.** TAXONOMIC COMPOSITION AND DIVERSITY OF MULTITUBERCULATA, PLESIADAPIFORMES, AND RODENTIA ACROSS CONTINENTS DURING THE EARLY PALEOGENE

- B132 **De Bast, E., Smith, T.** RADIATION OF PLESIADAPID MAMMALS AT THE END OF THE PALEOCENE EVIDENCED BY NEW DISCOVERIES FROM THE LATEST PALEOCENE OF FRANCE: ONE MORE EXAMPLE OF BUSH-LIKE EVOLUTION
- B133 **Toussaint, S. L., Godinot, M., Youlatos, D.** FUNCTIONAL ANALYSIS OF HAND AND FOOT METAPODIALS AND PHALANGES OF *PLESIADAPIS TRICUSPIDENS* (PLESIADAPIFORMES, PLESIADAPOIDEA; PALEOCENE, FRANCE)
- B134 **White, C. L., Bloch, J. I., Silcox, M. T.** VIRTUAL ENDOCAST OF LATE PALEOCENE *NIPTOMOMYS* (MICROSYPIDAE, PRIMATES) AND EARLY PRIMATE BRAIN EVOLUTION
- B135 **Allen, K. L., Clarke, T. A.** NEW VIRTUAL ENDOCASTS OF EXTINCT LARGE-BODIED LEMURS FROM NORTHERN MADAGASCAR
- B136 **Femenias-Gual, J., Minwer-Barakat, R., Marigó, J., Moyà-Solà, S.** THE MOST COMPLETE EARLY EOCENE PRIMATE SPECIMEN FROM THE IBERIAN PENINSULA
- B137 **Grider-Potter, N., McGrosky, A., Nalley, T.** THE EVOLUTION OF THE NEUROCRANIUM AND ITS EFFECTS ON BALANCE OF THE HEAD IN HOMINIDS
- B138 **Begun, D., Kelley, J.** HOMINID LOCALITIES FROM THE PANNONIAN BASIN (HUNGARY) AND YUNNAN PROVINCE (CHINA) AND RELATIONS AMONG EURASIAN MIOCENE APES
- B139 **Fleagle, J., Tejedor, M., Novo, N., Gonzalez Ruiz, L., Brandoni, D., Martin, G.** RECENT RESEARCH IN THE MIOCENE PINTURAS FORMATION, SANTA CRUZ, ARGENTINA
- B140 **Flynn, L. J., Kelley, J., Jablonski, N. G., Su, D. F., Ji, X.** A WETLAND SMALL MAMMAL FAUNA FROM THE LATE MIOCENE OF YUNNAN, SOUTH CHINA
- B141 **Nishioka, Y., Nakaya, H., Suzuki, K., Ratanasthien, B., Jintasakul, P., Hanta, R., Kunimatsu, Y.** LARGE FOSSIL RODENTS FROM THAILAND
- B142 **Kimura, Y., Lindsay, E., Jacobs, L. L., Flynn, L. J.** ISOTOPIC DIETARY RESPONSE TO INTERSPECIFIC COMPETITION BETWEEN MURINE AND CRICETID RODENTS IN THE EARLY MIOCENE OF PAKISTAN
- B143 **Stevens, N. J., Roberts, E. M., O'Connor, P. M.** A DIVERSE NEW FOSSIL LOCALITY IN THE LATE OLIGOCENE NSUNGWE FORMATION, SOUTHWESTERN TANZANIA
- B144 **López-Antoñanzas, R., Prieto-Marquez, A., Stubbs, T. L., Knoll, F.** TEMPO AND MODE IN THE EVOLUTION OF CTENODACTYLIN RODENTS
- B145 **Levy, J., Burroughs, R. W., Pierce, Z., Vallejo-Pareja, M. C., Lewis, P. J.** A RIGID PALM TREE OR A MIGHTY BRANCHING OAK? USING MUSKRATS TO STUDY EVOLUTIONARY MODE
- B146 **Pierce, Z., Levy, J., Vallejo-Pareja, M., Lewis, P.** TO LUMP OR NOT TO LUMP? ANALYZING FOSSIL MUSKRAT TAXONOMY USING MOLAR MORPHOLOGY
- B147 **Penkrot, T. A., Zack, S. P.** TARSAL DIVERSITY OF MIDDLE EOCENE (UINTAN) RODENTS FROM SAN DIEGO COUNTY, CALIFORNIA
- B148 **Prufrock, K. A., Ruff, C. B., Rose, K. D.** A LITTLE SQUIRRELY: RECONSTRUCTING LOCOMOTOR BEHAVIOR AND BODY MASS OF EARLY ISCHYROMYIDAE (RODENTIA) USING EXTANT SCIURIDAE
- B149 **Biedron, E., Hopkins, S. S.** SURPRISING DIVERSITY IN A MID-MIOCENE SQUIRREL ASSEMBLAGE: THE SCIURIDAE (MAMMALIA:RODENTIA) OF CAVE BASIN, OREGON
- B150 **Perdue, G. V., Hopkins, S. S., Davis, E. B.** ESTIMATING BODY MASS IN FOSSIL RODENTS: CAN LOG BIAS BE REMOVED BY NONLINEAR REGRESSION?
- B151 **Rinaldi, C. E., Kuhn-Hendricks, S. M., Erickson, G. M.** A NOVEL APPROACH TO MODELING TOOTH GROWTH AND FORM IN EXTANT AND FOSSIL RODENTS
- B152 **Moretti, J. A., Johnson, E.** PRINCIPAL COMPONENT ANALYSIS OF VARIABLES OF THE LOWER 3RD PREMOLAR OF *AZTLANOLAGUS AGILIS* (MAMMALIA, LAGOMORPHA)
- B153 **Flora, H. M., McLaughlin, W. N., Davis, E. B., Hopkins, S. S.** A TRUE LEPORID FROM THE TIEN SHAN MOUNTAINS OF KYRGYZSTAN
- B154 **Jones, M. F., Beard, K., Coster, P., Metais, G., Ocakoglu, F., Licht, A., Taylor, M.** A PRIMITIVE FOSSIL BAT FROM THE LATE MIDDLE EOCENE OF NORTHERN ANATOLIA
- B155 **Napoli, J., Williamson, T. E., Shelley, S. L., Brusatte, S.** A DIGITAL ENDOCRANIAL CAST OF THE EARLY PALEOCENE (PUERCAN) *ONYCHODECTES TISONENSIS* (EUTHERIA, TAENIODONTA)
- B156 **Gaudin, T. J., Wible, J. R., Rose, K. D., Emry, R. J., Spaulding, M.** ANALYSIS OF THE SKELETAL ANATOMY OF THE BASICRANIUM AND AUDITORY REGION IN THE METACHEIROMYID PALAEANODONT *METACHEIROMYS* (MAMMALIA, PHOLIDOTAMORPHA) BASED ON HIGH-RESOLUTION CT-SCANS
- B157 **Holbrook, L. T.** A SKULL OF *ARCTOCYON FEROX* (MAMMALIA, ARCTOCYONIDAE) FROM THE PALEOCENE OF WYOMING

- B158 **Williamson, T. E., Secord, R., Brusatte, S., Shelley, S. L., Leslie, C. E., Peppe, D. J.** A HIGH-RESOLUTION RECORD OF EARLY PALEOCENE FAUNAL DYNAMICS IN THE SAN JUAN BASIN, NEW MEXICO
- B159 **Bown, T. M., Chew, A. E., Nichols, K. A., Rose, K. D., Weaver, L. N., Rodwell, B. W.** USING FOSSIL VERTEBRATES TO DATE EARLY EOCENE TECTONOSEDIMENTARY ACTIVITY IN THE GREYBULL/BASIN AREA OF NORTHWEST WYOMING
- B160 **Franzen, J. L., Godinot, M., Erfurt, J., De Lapparent De Broin, F.** A NEW EOCENE VERTEBRATE LOCALITY, ROUZILHAC (MP 10–11, AUDE, FRANCE)
- B161 **Mccomas, K. M., Eberle, J. J., Gauthier, J. A.** ADDITIONS TO THE MAMMALIAN FAUNA AND THE FIRST DOCUMENTED NON-AVIAN REPTILE FROM THE LATEST EOCENE FLORISSANT FORMATION, FLORISSANT FOSSIL BEDS NATIONAL MONUMENT, COLORADO
- B162 **Samuels, J. X., Mhlbachler, M. C., Korth, W. W., Holbrook, L. T., Bredehoeft, K. E., Fremd, T. J.** THE FIRST LATE EOCENE AND EARLIEST OLIGOCENE FAUNAS FROM THE JOHN DAY BASIN OF OREGON: FILLING GAPS IN THE MOST COMPLETE RECORD OF MAMMAL EVOLUTION IN NORTH AMERICA
- B163 **Korth, W. W., Cavin, J. L.** NEW MATERIAL OF THE DIDELPHID MARSUPIAL (MAMMALIA) *HERPETOTHERIUM MERRIAM* FROM THE JOHN DAY FORMATION (LATE OLIGOCENE: ARIKAREAN: CHATTIAN), OREGON, USA
- B164 **Albright Iii, B., Phillips, G., Starnes, J., Stringer, G. L., Weller, A.** THE JONES BRANCH LOCAL FAUNA: AN EARLY ARIKAREAN MAMMALIAN ASSEMBLAGE FROM THE UPPER OLIGOCENE CATAHOULA CLAY, WAYNE COUNTY, MISSISSIPPI

EXHIBIT HALL, GRAND BALLROOM

Education & Outreach Poster Session

- B165 **Dickson, M. C., Chen, A., Cortés, J. C., Deans, A. M., Orlowski, L., Thomas, H. N., Turmelle, J. F., Wood, J., Groom, R.** DINOSAURS, BIRDS, AND MEMES: UTILIZING A POPULAR MICROBLOGGING PLATFORM FOR PALAEONTOLOGICAL EDUCATION
- B166 **Elshafie, S. J., Madison, A., Vine, J.** NEW FRAMEWORK FOR SCIENCE COMMUNICATION ADAPTS STORY ART TECHNIQUES FROM FILMMAKING
- B167 **Marcy, A. E.** SUDDENLY CUTE! FINALLY, A GAME TO ENGAGE STUDENTS IN THE MODERN UNDERSTANDING OF EVOLUTIONARY DEVELOPMENT
- B168 **Strait, S. G.** WEST VIRGINIA SCIENCE ADVENTURES: A MODEL FOR SERVICE LEARNING AND STEAM OUTREACH FOR RURAL COMMUNITIES
- B169 **Sumida, S. S.** VERTEBRATE PALEONTOLOGY IS THE IDEAL GATEWAY SCIENCE FOR BOTH STEM AND "STEAM" EDUCATION: STRATEGIES USING THE HISTORY OF ANIMATION, FILM, AND DIGITAL SPECIAL EFFECTS
- B170 **Cobley, M. J., Collins, T., Beck, L., Darvall, A., Knighton, B., Koldewyn, J.** MUSEUM ON THE MOVE: A FRAMEWORK FOR INCREASING SCIENTIFIC UNDERSTANDING THROUGH INQUIRY-BASED LEARNING
- B171 **Nassif, J. P., Bourke, J., Cerio, D., Dufeu, D., Early, C. M., Morhardt, A. C., Porter, W., Ridgely, R., Spaw, A., Witmer, L. M.** A DIGITAL MENAGERIE: BUILDING THE WITMERLAB'S VISIBLE INTERACTIVE ANATOMY LIBRARY AS AN OPEN-ACCESS RESOURCE FOR RESEARCH AND EDUCATION
- B172 **Pruitt, J., O'Neill, B.** USING AUGMENT SOFTWARE TO CREATE MOBILE FOSSIL COLLECTIONS: TECHNOLOGY AND WORKFLOW
- B173 **White, L. D.** DIGITAL COLLECTIONS AND WEB MODULES AT THE UC MUSEUM OF PALEONTOLOGY: BRINGING MUSEUM COLLECTIONS TO EDUCATORS AND PUBLIC AUDIENCES
- B174 **Boodhoo, T., Stirling, T., Jimenez, M., Smith, E., Otoo, B., Ridgwell, N. M., Chure, D. J.** THE DIGITAL QUARRY PROJECT AT DINOSAUR NATIONAL MONUMENT: A LEARNING TOOL FOR STUDENTS, TEACHERS, VISITORS AND SCIENTISTS NEAR AND FAR
- B175 **Gay, R. J.** LOCAL RESOURCE, LOCAL OUTREACH: EDUCATING STUDENTS ABOUT PALEONTOLOGY IN THEIR OWN BACKYARDS
- B176 **Hunt-Foster, R. K., Toth, N., Uglesich, J., King, B., Irmis, R. B., Foster, J. R., Farke, A. A., Whittaker, M., King, S.** RESPECT AND PROTECT: PALEONTOLOGICAL EDUCATION AND OUTREACH IN BLM CANYON COUNTRY DISTRICT, SOUTHEASTERN UTAH
- B177 **Colvin, R.** THE ARLINGTON ARCHOSAUR SITE IN YOUR CURRICULUM—USING THE FOSSIL RECORD TO TEACH ACROSS THE SCIENCE DISCIPLINES
- B178 **Bair, A.** TEACHING AND LEARNING CLADOGRAMS: HOW COGNITIVE SCIENCE PREDICTS "BETTER" AND "WORSE" DIAGRAM STYLES AND LEARNING PROGRESSIONS
- B179 **Dewar, E. W., Bair, A. R., Beck, A. L.** FIELDING YOUR FIRST COURSE: USING GOOD PLANNING TO ENHANCE STUDENT LEARNING AND POSSIBLY EVEN KEEP YOUR SANITY

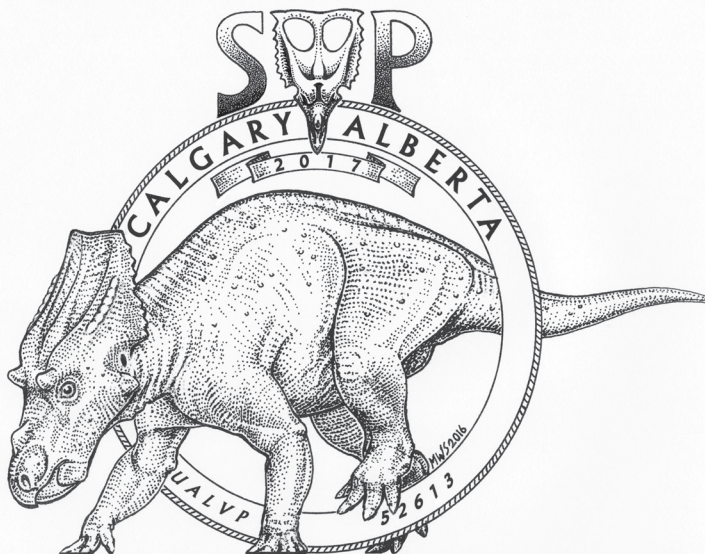
- B180 **Drumheller, S. K., Gates, T. A., Brett, L. R., Steen, A. D.** ROOT MARKS IN THE CLASSROOM: A STUDENT SCIENCE APPROACH TO ACTUALISTIC TAPHONOMIC RESEARCH
- B181 **Farke, A. A., Chai, S., Diepenbrock, J., Gonzalez, D.** FROM THE QUARRY TO THE CLASSROOM: A CASE STUDY IN FIELD- AND MUSEUM-CENTERED RESEARCH FOR HIGH SCHOOL STUDENTS
- B182 **Hovatter, B. T., Wilson, G. P.** THE DISCOVERIES IN GEOSCIENCES (DIG) FIELD SCHOOL: HELPING TEACHERS INSPIRE STUDENTS WITH REAL SCIENCE IN THE CLASSROOM
- B183 **Naples, V.** PLAYING THE "GAME" OF VERTEBRATE PALEONTOLOGY: A NEW CLASSROOM TEACHING AND LEARNING TOOL FOR INCREASING STUDENT KNOWLEDGE OF AND INTEREST IN AN EVOLUTIONARY CONTEXT
- B184 **Roberti, G., Prassack, K. A.** PALEONTOLOGY IN THE "REAL WORLD": USING THE RECENT PALEONTOLOGICAL LITERATURE TO ENGAGE HIGH SCHOOL STUDENTS AND ENCOURAGE STEM-BASED LEARNING
- B185 **West, A. R., Ingber, J.** LEARNERS AS RESEARCHERS: TEACHING CONCEPTS OF STABILITY AND CHANGE IN NATURAL SYSTEMS THROUGH PROJECT-BASED EXPLORATION OF PALEONTOLOGY
- B186 **Desantis, L., Yann, L., Hedberg, C., Desantis, S.** GIRLS LIKE DINOSAURS TOO! WAYS TO BETTER ENGAGE GIRLS IN PALEONTOLOGY
- B187 **Holliday, C. M., Hill, C., Davis, J. L., Witmer, L. M., Middleton, K.** INSIDE DINOSAURS: A BROADER IMPACTS PROGRAM FOR RESEARCH, TEACHING AND PUBLIC EDUCATION THROUGH DINOSAUR BIOLOGY, PHYSICS AND EVOLUTION

Note:

***Numbers beginning with "B" represent the poster board number in Exhibit Hall, Grand Ballroom**

***Numbers beginning with "IB" represent the poster board number in Imperial Ballroom Foyer**

SAVE THE DATE



SOCIETY OF VERTEBRATE PALEONTOLOGY
77th ANNUAL MEETING

SVP 2017

77TH ANNUAL MEETING

Calgary, Canada



SVP

SOCIETY OF
VERTEBRATE
PALEONTOLOGY

August 23 - 26, 2017

Calgary Telus Convention Centre
Calgary, Canada