MEETING PROGRAM

Welcome to Calgary!

August 23 - 26, 2017
Calgary TELUS Convention Centre
Calgary, Canada
The Society of Vertebrate Paleontology Thanks This Year’s Meeting Sponsors

Meeting Co-Sponsors

Silver Sponsor

Bronze Sponsor

Coffee Break

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

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# Table of Contents

Sponsors and Supporters........................................................................................................... 1
Thank You to Committees......................................................................................................... 1
Welcome Letter.......................................................................................................................... 3
SVP Pledge Form....................................................................................................................... 4
General Information.................................................................................................................. 5
  - Registration Hours............................................................................................................... 5
  - Exhibit Hours..................................................................................................................... 5
  - Poster Hours.................................................................................................................... 5
  - Speaker Ready Room........................................................................................................ 6
  - Auction Drop Off............................................................................................................... 6
  - Family Room................................................................................................................... 6
  - Coffee Breaks.................................................................................................................. 7
  - First Aid.......................................................................................................................... 7
  - Romer Prize Session........................................................................................................ 7
  - E&O Session.................................................................................................................... 7
  - Colbert Prize Session...................................................................................................... 7
  - Preparators’ Table........................................................................................................... 7
  - Preparators’ Session........................................................................................................ 7
  - Program and Abstract Book............................................................................................ 7
  - Recordings Prohibited...................................................................................................... 7
  - Wi-Fi Service................................................................................................................... 8
  - SVP on Twitter................................................................................................................ 8
  - Code of Conduct............................................................................................................. 9
Special Events.......................................................................................................................... 9
Program and Abstract Book Updates....................................................................................... 11
Committee Meeting Schedule................................................................................................. 12
34th 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........................................................................................................... 19
Schedule of Events................................................................................................................... 23
Workshops and Field Trips....................................................................................................... 27
Program At A Glance............................................................................................................... 29
List of Authors and Abstract Titles in Chronological Session Order ..................................... 31
Save the Date for SVP 2017.................................................................................................... Back Cover
Welcome to the Stampede City! Located where the prairies meet the mountains, Calgary has long been the starting point for expeditions into North America’s natural history riches. With several UNESCO World Heritage sites nearby, including Dinosaur Provincial Park and the Burgess Shale, we are confident you will find appealing vertebrate fossils, no matter your interest.

There are numerous museums and sites of interest both within the city limits or a short drive from Calgary. The world renowned Royal Tyrrell Museum, a meeting cosponsor, is an hour and a half drive away, and Head Smashed In Buffalo Jump, another UNESCO World Heritage site, is similarly nearby. Three hours away are the Walcott Quarry to the west in Yoho National Park (Field, BC) and Dinosaur Provincial Park to the east (Brooks, AB). Also three hours’ drive away is the collection at the Laboratory of Vertebrate Paleontology at the University of Alberta in Edmonton. For the adventurous, consider visits to the Philip Currie Museum of Palaeontology in Grand Prairie, AB, and the Peace River Palaeontological Research Centre in Tumbler Ridge, BC. Between all of these points are some of the world’s richest fossil deposits from Cretaceous and Cenozoic times.

University of Alberta, which is co-sponsoring the SVP 2017 Meeting, has recently launched its first MOOC for credit, Dino 101. It’s led by Dr. Phil Currie, Curator of Dinosaurs at the University of Alberta Laboratory for Vertebrate Paleontology. Spotlighting the university’s strengths in dinosaur research, you can check out the course at https://www.ualberta.ca/courses/dino101.

We have located this year’s Annual Meeting in the heart of downtown, and amenities for all tastes and budgets are available via a short stroll down the Stephen Ave. pedestrian mall.

Please venture out and enjoy our famous hospitality!

Jessica Theodor, SVP 77th Annual Meeting Host Committee Co-Chair
Jason Anderson, SVP 77th Annual Meeting Host Committee Co-Chair
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.

David Polly, President
Matthew Brown, Development Chair
Society of Vertebrate Paleontology
9650 Rockville Pike
Bethesda, MD 20814
General Information

All meeting activities will be held at the TELUS Convention Centre, located at 120 9th Ave SE, unless noted otherwise.

Registration Counter

The Registration Counter will be located in Macleod Hall, South Building, Lower Level.
Tel: (403) 218-7863

Tuesday, August 22  3:00 pm – 7:00 pm
Wednesday, August 23  7:00 am – 7:30 pm
Thursday, August 24  7:00 am – 6:15 pm
Friday, August 25  7:00 am – 5:00 pm
Saturday, August 26  7:00 am – 4:00 pm

Annual Meeting Merchandise

Registration Counter

Wednesday, August 23  10:00 am – 7:30 pm
Thursday, August 24  7:00 am – 6:15 pm
Friday, August 25  7:00 am – 5:00 pm
Saturday, August 26  7:00 am – 4:00 pm

Visit the registration counter to purchase SVP Meeting t-shirts, water bottles, lapel pins, patches, belt buckles, hats, and multi-tool pens. If you pre-ordered meeting merchandise, you may pick it up on-site at the registration desk starting Tuesday, August 22. Find additional SVP-branded items at Café Press: www.cafepress.com/vertpaleo.

Exhibits

Macleod Hall A1-A4

Wednesday, August 23  9:30 am – 6:15 pm
Thursday, August 24  9:30 am – 6:15 pm
Friday, August 25  9:30 am – 6:15 pm
Saturday, August 26  9:30 am – 6:15 pm

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

Posters

Macleod Hall A1-A4 and Pre-function Area

Wednesday, August 23
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, August 24
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, August 24
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, August 25
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**
*Pacific 6*

Please note that speakers are required to check in at the speaker ready room the day prior to their scheduled session so that 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, August 22
9:00 pm – 8:00 pm

Wednesday, August 23
7:00 am – 4:00 pm

Thursday, August 24
7:00 am – 4:00 pm

Friday, August 25
7:00 am – 4:00 pm

Saturday, August 26
7:00 am – 4:00 pm

**Auction Item Drop Off**
Stephen Room, Hyatt Regency Calgary Hotel, 700 Centre St S

Wednesday, August 23
10:00 am – 5:00 pm

Thursday, August 24
8:00 am – 6:00 pm

Friday, August 25
8:00 am – 12:00 noon

**Business Centre**
A business centre is available at the TELUS Convention Centre to assist with your copy/fax/shipping needs. It is open Monday-Friday, 8:30 am to 4:30 pm and offers photocopying, document printing, faxing, scanning, PC workstation and sells office supplies.

**Poster Printing**
There are a number of print shops in the area, but inSource, located in the North Hill Centre, offers a 50% discount off all services, including poster printing, for any teacher or student (show a student or faculty card from any country). They are accessible by LRT line (board the LRT outside the TELUS Convention Centre and get off at the Lion’s Park station, outside the North Hill Centre). [http://insourcealberta.com/](http://insourcealberta.com/).

**Family Room**
*Macleod E4*
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 front desk of your hotel. Parents and guardians are required to perform their own reference checks and arrange child care independently. SVP/FASEB are not responsible for childcare nor the quality of childcare provided.
Coffee Breaks
*MacLeod Hall A1-A4 and Pre-function Area*

- **Wednesday, August 23** 10:00 am – 10:15 am
- **Thursday, August 24** 10:00 am – 10:15 am
- **Friday, August 25** 10:00 am – 10:15 am
- **Saturday, August 26** 10:00 am – 10:15 am

**First Aid**
In case of medical emergency at the TELUS Convention Centre, dial “333” from any house phone and ask for Security or (403) 261-8573 from a cell phone for assistance. Band aids are available from the registration desk. At the Hyatt Calgary, call 55 from any house phone.

**The Alfred Sherwood Romer Prize Session**
Hear from new voices in paleontology on Thursday, August 24, from 8:00 am to 12:15 pm in Macleod BC. 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 #B1-20, Saturday, August 26)*
Learn from your colleagues’ education outreach successes by visiting the Education & Outreach posters located in Macleod Hall A1-A4 and Pre-function. Authors will be present at their posters on Saturday, August 26, from 4:15 pm – 6:15 pm.

**Edwin H. and Margaret M. Colbert Prize Poster Session** *(Board #B1-21)*
View the posters from which the 2017 Edwin H. and Margaret M. Colbert Prize winner will be chosen. Students offer fresh viewpoints in Vertebrate Paleontology through their poster presentations located in Macleod Hall A1-A4 and Pre-function. Authors will be present at their posters on Thursday, August 24, 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 #B93 – B103, Thursday, August 24)*
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, August 24, from 8:00 am – 12:15 pm in Macleod Hall A. The poster presentation of this session will take place on Thursday, August 24, from 4:15 pm – 6:15 pm, in Macleod Hall A1-A4 and Pre-function.

**Program and Abstract Book**

**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 77th 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, August 23 – Saturday, August 26 in all meeting space and committee meeting rooms. The network is paleontology and password is svp2017.

SVP on Twitter
Follow SVP and comment about the Annual Meeting using hashtag #2017SVP. 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:

![No Twitter Icon](image)

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 #2017SVP. 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.
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: Emily Rayfield (glejr@bristol.ac.uk), Jaelyn Eberle (jaelyn.eberle@colorado.edu), Anjali Goswami a.goswami@ucl.ac.uk, Kelsey Stilson (kstilson@uchicago.edu), Aki Watanabe (akinobu.watanabe@ucl.ac.uk). Help locating the officers may be obtained from the SVP Registration counter. 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.

Special Events

Tuesday Evening Public Lecture Speaker: Dr. Mary Schweitzer, North Carolina State University and the North Carolina Museum of Natural Sciences

Tuesday, August 22, 2017
7:00 pm – 9:00 pm
Eckhardt-Gramatté Hall in Rosza Centre at the University of Calgary

Dinosaur molecules: the amazing potential of molecular paleontology
Mary Schweitzer’s work has challenged conventional thinking about what types of cells are in fossils and how preservation works. Coming at paleontology from her background in molecular biology, she sees things in a way that traditionally has not been accepted. Finding red blood cells, or finding medullary bone, in a T. rex fossil has previously been unheard of, but could change the way paleontology is conducted and the conclusions derived from data, as well as having implications in other fields, such as astrobiology. Come listen to Dr. Schweitzer talk about her work and its meaning in our Tuesday Public Lecture.

Women in Paleo Luncheon
Wednesday, August 23, 2017
12:30 pm – 1:30 pm
Glen 208-209, TELUS Convention Centre

The SVP Women in Paleontology Luncheon celebrates the achievements of female-identifying paleontologists and provides a forum for addressing the challenges facing this underrepresented group. This year’s luncheon will feature presentations that cover career retention strategies for female-identifying SVP members and the history and research of three prominent female Canadian paleontologists. Opportunities for discussion of related issues and networking with other luncheon attendees will follow. All members of SVP are welcome to attend!
Welcome Reception
Wednesday, August 23, 2017
7:30 pm – 10:30 pm
TELUS Spark

Attendees must wear their badge to be admitted to the Welcome Reception. Transportation will be provided from the TELUS Convention Centre (at 700 Centre St. SE) to the TELUS Spark, starting at 6:00 pm. Buses will depart approximately every 60 minutes on a continuous loop between the TELUS Convention Centre and the TELUS Spark. 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, August 24, 2017
12:30 pm – 1:30 pm
TELUS Convention Centre, Macleod Hall BC
An opportunity to bring your questions to SVP leadership.

PaleoArt Exhibit
Wednesday, August 23 – Saturday, August 26, 2017
9:30 am – 6:15 pm
Macleod Hall E1-E4 Pre-function Area

PaleoArt is integral to the science of paleontology and is one of the main ways that fossil discoveries are communicated to the public. Paleoartists work in close collaboration with paleontological research teams to create scientific illustrations and reconstructions of ancient animals and ecosystems that are not only beautiful but scientifically accurate. This year’s SVP meeting will feature a small exhibition of paleontological art featuring the works of paleoartists from the Calgary area and around the world. Come check it out in the Pre-function space in front of Macleod E1-E4, near the exhibitor’s booths.

Student and Postdoc Roundtable and Reprint Exchange
Presented by the Student and Post-Doc Liaison Committee
Thursday, August 24, 2017
7:30 pm – 11:30 pm
Hyatt Calgary, Imperial Ballroom 4/6/8

Do you have questions about being a paleontologist? Do you need networking or career advice? Come to the Student and Post-Doctoral Roundtable and Reprint Exchange! During the informal roundtable students and post docs can network and receive advice from experts and leaders in the field of paleontology. Table topics include getting into grad school, how to land a post doc, career advice for teaching at a university, teaching at a medical school, and working for the government. There will also be tables on collections management, scientific photography, scientific illustration and much more! In addition, we will be giving away student and post doc memberships. Get tickets at the door!

The Reprint Exchange is a chance for you to build your library, free of charge. Recent and timeless reprints on all areas of vertebrate paleontology will be available through the generous donations of SVP members.
34th Annual Benefit Auction and Social
Friday, August 25, 2017
6:30 pm – 11:30 pm
Hyatt Calgary, Imperial Ballroom

Auction items must be dropped off at the Stephen Room by 2:00 pm on Friday, August 25, 2017. Stephen will be open from 10:00 am – 5:00 pm Wednesday, August 23; 8:00 am – 6:00 pm Thursday, August 24; and 8:00 am – 12:00 pm Friday, August 25 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 $5CAD is required, with bids increasing by $1CAD increments. The auction will be held in Canadian dollars.

Need help shipping your auction items home?
St. George Show Service
Macleod Hall A1-A4 and Pre-function
Saturday Hours: 9:30am – 6:15pm

Awards Banquet
Saturday, August 26, 2017
7:30 pm – 10:00 pm
Hyatt Calgary, 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 select to attend during pre-registration, please come to the registration counter by Thursday, August 24 to see if space is available.

Additional tickets can be purchased at the registration counter (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 counter by 12:00 pm on Thursday, August 24 to inform staff. SVP staff will try to accommodate dietary requests when possible.

After Hours Party
Saturday, August 26, 2017
10:30 pm – 1:00 am
Hyatt Calgary, Imperial Ballroom

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

Program and Abstracts Book Updates

- Thursday Technical Session VI – Presentation by Marco Andrade has been moved to Poster Session II, Board 104
  o **M. B. Andrade, N. Galvez** A QUESTION OF TIME IN TEMNOSPONDYL EVOLUTION AND THE SURVIVAL OF CAPITOSAURIA THROUGH THE PERMO-TriasSic Extinction Event
- Poster Session IV, Board 45 has been moved to Poster Session III, Board 105
  o B105 **R. M. Laker, M. Clementz** USING NON-DESTRUCTIVE RAMAN SPECTROSCOPY AS A TOOL TO INVESTIGATE SUB-FOSSIL AND YOUNG FOSSIL DIAGENESIS
- Poster Session IV, Board 84, has withdrawn
- Technical Session I, 9:45, has withdrawn
# Committee Meetings

SVP 2017 Committee Meetings at the TELUS Convention Centre unless noted with *

By invitation only unless noted otherwise

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<th>Tuesday</th>
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<tr>
<td>August 22</td>
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<tr>
<td><strong>MACLEOD E1</strong> 12:30 PM – 3:00 PM Government Affairs Committee Meeting</td>
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<td>3:00 PM – 5:00 PM Federal Paleontology (Paleocrat) Meeting</td>
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<td>August 23</td>
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<td><strong>MACLEOD E1</strong> 8:00 AM – 9:00 AM JVP Editorial Board Meeting</td>
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<td>3:00 AM – 4:30 PM Communications Committee Meeting</td>
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<td>August 24</td>
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<td><strong>MACLEOD E2</strong> 12:00 PM – 1:30 PM Colbert Prize Panel I 1:30 PM – 3:30 PM Romer Prize Panel</td>
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<tr>
<td>August 25</td>
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<td><strong>MACLEOD E2</strong> 9:00 AM – 10:00 AM Diversity Committee Meeting 4:30 PM – 5:30 PM Awards Committee Meeting</td>
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<tr>
<td>August 26</td>
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<tr>
<td><strong>MACLEOD E2</strong> 7:00 AM – 8:00 AM EC/Pub &amp; Media 12:00 PM – 1:00 PM EC/Annual Meeting 1:00 PM – 2:00 PM EC/Prog &amp; Edu 4:00 PM – 5:00 PM EC/Operations</td>
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| **MACLEOD E3** 12:30 PM – 2:30 PM Publications Committee Meeting/JVP Production 4:30 PM – 5:30 PM Archives Committee Meeting |

| **MACLEOD E3** 1:30 PM – 2:30 PM Education and Outreach Committee Meeting 4:30 PM – 5:30 PM 2017/2017 Host Committee Meeting 5:30 PM – 6:30 PM Colbert Prize Panel II |

| **MACLEOD E3** 11:00 AM – 12:30 PM Membership Committee Meeting |

| GLEN 208-209 2:00 PM – 3:30 PM Preparators Meeting |

| GLEN 208-209 12:30 PM – 1:30 PM Mitigation Paleontology Group Meeting |

| *HYATT CALGARY HERALD/DOLL* 4:00 PM – 7:00 PM Executive Committee Meeting |
SVP 36th Annual Benefit Auction and Social

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

**When:** Friday, August 25, 2017  
**Where:** Hyatt Calgary, Imperial 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

**Please note:** the auction will be held in Canadian dollars. A minimum bid of $5CAD is required, with bids increasing by $1CAD increments. Cash, Visa, MasterCard and American Express accepted. Credit card purchases will require a minimum charge of $10 USD or higher.

Auction items must be dropped off at the Stephen Room in the Hyatt Calgary by 12:00 pm on Friday, August 25, 2017. Stephen Room will be open from 10:00 am – 5:00 pm Wednesday, August 23 and from 8:00 – 6:00 pm Thursday, August 24, and Friday, August 25, 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 78th Annual Meeting, October 17-20, 2018, at the Albuquerque Convention Centre, Albuquerque, New Mexico, United States, 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 2018 SVP meeting circular and Web site is required with the proposal and must include:

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

Proposals should be sent to Thomas Williamson, SVP 2018 Albuquerque Host Committee Chair, at thomas.williamson@state.nm.us. The deadline for proposal submission is December 12, 2017.
Call for SVP Symposium Proposals

The Program Committee for the SVP 78th Annual Meeting, October 17-20, 2018, at the Albuquerque Convention Centre, Albuquerque, New Mexico, United States, 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. All abstracts submitted for symposia are subject to review by members of the Program Committee as part of the regular abstract review process and are subject to rejection or being switched to a non-preferred format.

Sample Podium Symposia text can be viewed at in the 2017 Annual Meeting Circular.

Please send proposals to SVP Program co-chairs: Paul Barrett at p.barrett@nhm.ac.uk and Patricia Holroyd at pholroyd@berkeley.edu. The deadline for proposal submission for SVP Podium and Poster Symposia is December 1, 2017. 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.
Society of Vertebrate Paleontology
August 23-26, 2017
Macleod Hall, TELUS Convention Centre

Macleod Prefunction

Please make greyscale
Exhibitor/Sponsor Listing

Visit the Exhibits – Wednesday, August 23 – Saturday, August 26
Macleod Hall, Pre-function Area
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.

10 Tons
Booth 13
Ved Sulsen 34
Copenhagen 2300 Denmark
Email: horn@10tons.dk
Web: www.10tons.dk

10 Tons has made scientific accurate models for museums and aquariums for more than a decade. During the years we have made models of more than 100 different species - present as well as prehistoric - that can be seen at 40 museums on 3 continents.

Cambridge University Press
Booth 12
One Liberty Plaza,
New York, NY 10006
Phone: 212-337-6000
Email: information@cambridge.org
Web: www.cambridge.org

Cambridge University Press' publishing in books and journals combines state-of-the-art content with the highest standards of scholarship, writing and production. Visit our stand to browse new titles, available at 20% discount, and to pick up sample copies of our journals. Visit our website to find out more about what we do: www.cambridge.org/academic

Carter County Museum
Booth 6
306 North Main Street
PO Box 445
Ekalaka, MN 59324
Phone: 406-775-6886
Email: smoore@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.

Columbia University Press
Booth 9
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 1
19803 Hamilton Avenue, Suite 200
Torrance, CA 90502
Phone: 310-618-9990
Email: sales@dunwell.com
Web: www.dinolite.us

Dino-Lite portable digital microscopes and eyepiece cameras provide high-quality microscopy video interfacing to PC and MAC. Most models provide 10x-220x magnification with features such as measurement and adjustable polarizer. The included software makes it easy to take snapshots, record videos, manipulate images, save and email discoveries.
Indiana University Press
Booth 10
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.

Institute for the Study of Mongolian Dinosaurs
Booth 5
1160 Mission Street, Unit 1611
San Francisco, CA 94103
Phone: 415-568-5119
Email:thea@mongoliandinosaurs.org
Web: www.mongoliandinosaurs.org

The Institute for the Study of Mongolian Dinosaurs is a 501(c)(3) nonprofit organization based in the United States. Our mission is to strengthen geoscience education in Mongolia, conserve Mongolia’s fossil heritage, promote Mongolian paleontology, and edify the next generation of Mongolian paleontologists. Learn more at MongolianDinosaurs.org.

Johns Hopkins University Press
Booth 16
2715 North Charles Street
Baltimore, MD 21218
Phone: 410-516-6951
Web: www.JHUPBooks.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.

Permia
Booth 18
3000 Town Center, Suite 530
Southfield, MI 48075
Phone: 248-686-2680
Email: Michael@cosmosit.com
Web: www.permia.com

Permia is a boutique clothing and collectibles brand, dedicated to creating beautiful and scientifically accurate restorations of prehistoric creatures. Our garments and accessories represent the perfect fusion of ancient life with modern style, appealing to all ages!

*PLOS
Web: www.plos.org

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

Macleod Pre-function Area

Real World Globes
Booth 15
1227 North Miller Pack Ct.
Visalia, CA 93291
Phone: 559-651-7711
Fax: 559-651-0123
Email: drogers@realworldglobes.com
Web: www.realworldglobes.com

*Nature Ecology & Evolution
Web: www.nature.com/natecolevol/

Paleontology on Public Lands
Booth 17
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 government paleontologists representing land management agencies from multiple countries. Ask about the rules on different lands for collecting, permitting, and museums, or learn about recent discoveries on public lands.

*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

18
Research Casting International
Booth 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.

Sankey and Biewer Book,
The Giant Spiked-Toothed Salmon of Center California
Booth 7
California State University
Stanislaus
Turlock, CA 95382
Phone: 209-620-0609
Email: 0jsankey@csustan.edu.

Taylor & Francis
Booth 3
530 Walnut St., Suite 850
Philadelphia, PA 19106
Email: customerservice@taylorandfrancis.com
Web: www.taylorandfrancis.com

The Zoological Society of Japan
Booth 4
7-2-2 Hongo MT Build.
Bunkyo Tokyo 113-0033
Japan
Phone:+81-3-3814-5461
Email: zsj-society@zooology.or.jp
Web: www.zoology.or.jp

Founded in 1878, the Zoological Society of Japan is known to be one of the oldest and successful academic societies in Japan, published Zoological Magazine and Annotationes Zoologicae Japonenses and is publishing Zoological Science from 1985 and launched Zoological Letters on BioMed Central 2015.

Triebold Paleontology, Inc.
Booth 14
201 South Fairview Street
Woodland Park, CO 80863
Phone: 719-686-1820
Fax: 719-686-1399
Email: mike@trieboldpaleontology.com
Web: www.trieboldpaleontology.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.

TRX Sculptures
Booth 2
210 Patrick Drive
Pacheco, CA 94553
Phone: 510-779-4798
Email: trxsculptures@gmail.com

TRX Sculptures represents a new generation in paleontology sculptures, restorations, puppets and exhibits. We specialize in creating ultra-lightweight, posable, full size dinosaur figures at an affordable price for educational institutions and private collectors alike. TRX Sculptures also produces custom lifelike dinosaur puppets as entertainment and teaching tools.

YXLON
Booth 8
5675 Hudson Industrial Parkway
Hudson, OH 44236
Phone: 770-289-7708
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 of scanning services at multiple locations in the U.S.
Hyatt Regency Calgary, Third Floor

Auction drop-off

Please make grey scale
# 2017 SVP Schedule of Events (subject to change)

All events are held at the TELUS Convention Centre unless otherwise noted with an **

## Tuesday, August 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00pm–7:00pm</td>
<td>Registration Open</td>
<td>Registration Counter</td>
</tr>
<tr>
<td>7:00pm–9:00pm</td>
<td>Special Lecture by Dr. Mary Schweitzer</td>
<td>**Eckhardt-Gramatté Hall in Rozsa Centre, University of Calgary</td>
</tr>
<tr>
<td></td>
<td>Dinosaur molecules: the amazing potential of molecular paleontology</td>
<td></td>
</tr>
</tbody>
</table>

## Wednesday, August 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am–7:30pm</td>
<td>Registration Open</td>
<td>Registration Counter</td>
</tr>
<tr>
<td>8:00am–12:15pm</td>
<td>Podium Symposium</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session I</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session II</td>
<td>Macleod A</td>
</tr>
<tr>
<td>9:30am–6:15pm</td>
<td>Exhibit and Poster Viewing Hours</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>Colbert Prize Competition Posters (B1–B21)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Colbert Prize posters will be on display Wednesday through Thursday.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Regular Session Posters (B22–B103)</td>
<td></td>
</tr>
<tr>
<td>12:30pm–1:30pm</td>
<td>Women in Paleo Luncheon</td>
<td>Glen 208-209</td>
</tr>
<tr>
<td>1:45pm–4:15pm</td>
<td>Technical Session III</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session IV</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session V</td>
<td>Macleod A</td>
</tr>
<tr>
<td>4:15pm–6:15pm</td>
<td>Poster Session I (Regular Session Posters, B22–B103)</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>*Poster Session I authors will be present at their posters.</td>
<td></td>
</tr>
<tr>
<td>7:30pm–10:30pm</td>
<td>Welcome Reception</td>
<td>**TELUS Spark</td>
</tr>
</tbody>
</table>

## Thursday, August 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am–6:15pm</td>
<td>Registration Open</td>
<td>Registration Counter</td>
</tr>
<tr>
<td>8:00am–12:15pm</td>
<td>Romer Prize Session</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Preparators’ Session</td>
<td>Macleod A</td>
</tr>
<tr>
<td></td>
<td>Technical Session VI</td>
<td>Macleod D</td>
</tr>
<tr>
<td>9:30am–6:15pm</td>
<td>Exhibit and Poster Viewing Hours</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>Colbert Prize Competition Posters (B1–B21)</td>
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<tr>
<td></td>
<td>*Colbert Prize posters (B1–B21) will be on display Wednesday through Thursday.</td>
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</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Location</td>
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</tr>
<tr>
<td>12:30pm-1:30pm</td>
<td>SVP Business Meeting and Open Forum</td>
<td>Macleod Hall BC</td>
</tr>
<tr>
<td>1:45pm-4:15pm</td>
<td>Technical Session VII</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session VIII</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session IX</td>
<td>Macleod A</td>
</tr>
<tr>
<td>2:00pm-3:30pm</td>
<td>Preparators’ Meeting</td>
<td>Glen 208-209</td>
</tr>
<tr>
<td>4:15pm-6:15pm</td>
<td>Colbert Prize Competition Posters (B1–B21)</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>Poster Session II (Regular Session Posters, B22–B92)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Authors will be present at their posters.</td>
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</tr>
<tr>
<td></td>
<td>Posters associated with Preparators’ Session (B93–B103)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Authors will be present at their posters.</td>
<td></td>
</tr>
<tr>
<td>7:30pm-11:30pm</td>
<td>Student and Postdoc Roundtable and Reprint Exchange</td>
<td>**Hyatt Hotel, Imperial Ballroom 4/6/8</td>
</tr>
</tbody>
</table>

**Friday, August 25**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am-5:00pm</td>
<td>Registration Open</td>
<td>Registration Counter</td>
</tr>
<tr>
<td>8:00am-12:15pm</td>
<td>Technical Session X</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session XI</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session XII</td>
<td>Macleod A</td>
</tr>
<tr>
<td>9:30am-6:15pm</td>
<td>Exhibit and Poster Viewing Hours</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>Regular Session Posters (B1–B104)</td>
<td></td>
</tr>
<tr>
<td>1:45pm-4:15pm</td>
<td>Technical Session XIII</td>
<td>Macleod C</td>
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<tr>
<td></td>
<td>Technical Session XIV</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session XV</td>
<td>Macleod A</td>
</tr>
<tr>
<td>4:15pm-6:15pm</td>
<td>Poster Session III (Regular Session Posters, B1–B105)</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>*Poster Session III authors will be present at their posters.</td>
<td></td>
</tr>
<tr>
<td>6:30pm-11:30pm</td>
<td>Annual Benefit Auction and Social</td>
<td>**Hyatt Hotel, Imperial Ballroom 4/6/8</td>
</tr>
</tbody>
</table>

**Saturday, August 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00am-4:00pm</td>
<td>Registration Open</td>
<td>Registration Counter</td>
</tr>
<tr>
<td>8:00am-12:15pm</td>
<td>Technical Session XVI</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session XVII</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session XVIII</td>
<td>Macleod A</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td>Venue</td>
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</tr>
<tr>
<td>9:30am–6:15pm</td>
<td>Exhibit and Poster Viewing Hours</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>E&amp;O Posters (B1–B20)</td>
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</tr>
<tr>
<td></td>
<td>Regular Session Posters (B21–B102)</td>
<td></td>
</tr>
<tr>
<td>1:45pm–4:15pm</td>
<td>Technical Session XIX</td>
<td>Macleod C</td>
</tr>
<tr>
<td></td>
<td>Technical Session XX</td>
<td>Macleod D</td>
</tr>
<tr>
<td></td>
<td>Technical Session XXI</td>
<td>Macleod A</td>
</tr>
<tr>
<td>4:15pm–6:15pm</td>
<td>E&amp;O Poster Session (B1–B20)</td>
<td>Macleod Hall A1-A4 and Pre-function Areas</td>
</tr>
<tr>
<td></td>
<td>*Authors will be present at their posters.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poster Session IV (Regular Session Posters, B21 – B102)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Poster Session IV authors will be present at their posters.</td>
<td></td>
</tr>
<tr>
<td>7:30pm–10:00pm</td>
<td>Awards Banquet</td>
<td>**Hyatt Hotel, Imperial Ballroom</td>
</tr>
<tr>
<td></td>
<td>*Ticket required for admittance</td>
<td></td>
</tr>
<tr>
<td>10:30pm–1:00am</td>
<td>After Hours Party</td>
<td>**Hyatt Hotel, Imperial Ballroom</td>
</tr>
</tbody>
</table>

**2017 SVP Workshops**  
*For Pre-registered Attendees*

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Title</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUE, August 22</td>
<td>10:00am–4:00pm</td>
<td>Solutions for Supporting a Diverse SVP Membership</td>
<td>TELUS Convention Centre, Macleod Hall BC</td>
</tr>
<tr>
<td>TUE, August 22</td>
<td>9:00am–4:00pm</td>
<td>Photography and Photoshop 101, Digital Imaging Techniques and Post Processing Basics for Specimen Data Capture</td>
<td>TELUS Convention Centre, Macleod E3</td>
</tr>
<tr>
<td>TUE, August 22</td>
<td>1:00pm–4:30pm</td>
<td>Paleontology Education: Staying on the Cutting Edge in Research, Pedagogy and Outreach</td>
<td>TELUS Convention Centre, Macleod E4</td>
</tr>
<tr>
<td>TUE, August 22</td>
<td>11:00am–5:00pm</td>
<td>Morphological Evolution in Deep Time: Calculating Disparity and Rates from Discrete Phenotypic Data</td>
<td>TELUS Convention Centre, Macleod E2</td>
</tr>
<tr>
<td>TUE, August 22</td>
<td>1:00pm–4:30pm</td>
<td>Thinking About Fossils: The Philosophy of Paleontology</td>
<td>**Department of Philosophy, University of Calgary</td>
</tr>
<tr>
<td>Day/Time</td>
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</tr>
<tr>
<td><strong>MON, August 21</strong> Time: 5:00am – 8:00pm</td>
<td>Cambrian Vertebrates: The Walcott Quarry and the Burgess Shale</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MON, August 21 – TUE, August 22</strong> Time: Begins Monday, August 21, at 8:00am. Ends Tuesday, August 22, at 9:00pm.</td>
<td>Campanian-Maastrichtian Dinosaurs and Environments at Dinosaur Provincial Park and Drumheller</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TUE, August 22</strong> Time: 8:00 am – 7:00pm</td>
<td>Visit to the Royal Tyrrell Museum of Paleontology, Drumheller</td>
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<tr>
<td><strong>SUN, August 27</strong> Time: 7:30am – 6:00pm</td>
<td>Urban Paleontology: Paleocene Mammal Localities of Calgary and Area</td>
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<tr>
<td><strong>SUN, August 27 – TUE, August 29</strong> Time: Begins Sunday, August 27, at 6:45am. Ends Tuesday, August 29, at 7:00pm.</td>
<td>The Late Cretaceous of Southeastern Alberta and Southwestern Saskatchewan – Milk River Formation and Belly River Group of Alberta through to the Oligocene (Cypress Hills Formation) of Saskatchewan</td>
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<tr>
<td><strong>MON, August 28</strong> Time: 7:30am – 7:00pm</td>
<td>Korite Ammolite Mine and Production Facility Tour: An Active Cretaceous Bearpaw Formation Mine-Site in Southern Alberta</td>
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<tr>
<td><strong>MON, August 28</strong> Time: 7:30am – 6:00pm</td>
<td>Late Cretaceous and Paleocene Mammal Localities from Near Red Deer, Alberta</td>
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## PROGRAM AT A GLANCE

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<tr>
<td><strong>Podium Symposium: The Tetrapod Limb: A Model System for the Anatomy of Evolutionary Radiation</strong></td>
<td><strong>Technical Session I</strong></td>
<td><strong>Technical Session II</strong></td>
<td><strong>Romer Prize Session</strong></td>
<td><strong>Technical Session VI</strong></td>
<td><strong>Preparator's Session</strong></td>
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Poster Session III

Poster Session IV
List of Authors and Abstract Titles in Chronological Session Order

WEDNESDAY MORNING, AUGUST 23, 2017
PODIUM SYMPOSIUM: THE TETRAPOD LIMB
TELU CONVENTION CENTRE, MACLEOD C
MODERATORS: Karen Sears and Jonathan Marcot

8:00
TIMING THE DEVELOPMENTAL ORIGINS OF MAMMALIAN LIMB DIVERSITY

8:15
I. Schneider, S. Darnet, I. Braasch, P. Schneider, M. Davis, N. B. Fröbisch
APPENDAGE REGENERATION IS AN ANCIENT TRAIT OF OSTEICHTHYES

8:30
D. J. Urban, K. E. Sears
EVOLUTION AND DEVELOPMENT OF BAT WINGS

8:45
N. B. Fröbisch, C. Bickelmann, G. Lima, S. Triepel, I. Schneider
PREAXIAL POLARITY IN TETRAPOD LIMB DEVELOPMENT AND EVOLUTION

9:00
F. O’Keefe, S. Werning, D. J. Morgan
PALEOHISTOLOGY OF A HUMERAL GROWTH SERIES FROM THE CRETACEOUS PLESIOSAUR DOLICHORHYNCHOPS: NEW INSIGHTS ON PLESIOSAUR ONTOGENY

9:15
H. C. Larsson, Y. Kherdjemil, M. Knita
USE OF EXPERIMENTAL ATAVISMS TO ESTIMATE SOFT TISSUE RECONSTRUCTIONS OF THE EARLIEST TETRAPOD LIMBS

9:30
STRUCTURE OF THE PECTORAL LIMB OF THE EARLY PERMIAN BOLOSNAURID REPTILE EUDIBAMUS CURSORIS: FURTHER EVIDENCE SUPPORTING IT AS THE EARLIEST KNOWN FACULTATIVE BIPED

9:45
A. Heers, R. Carney
BUILDING A BIRD: A MUSCULOSKELETAL MODEL OF THE ARCHAEOPTERYX FLIGHT APPARATUS

10:00
BREAK

10:15
J. R. Hutchinson, S. Regnault, V. Allen
TEARS FOR GEARS: THE EVOLUTIONARY BIOMECHANICS AND DEVELOPMENT OF PATELLAR SESAMOID BONES

10:30
B. V. Dickson, S. E. Pierce
QUANTITATIVE ASSESSMENT OF 3D HUMERUS MORPHOLOGY ACROSS THE TETRAPOD WATER-LAND TRANSITION

10:45
B. M. Kilbourne
SELECTIVE REGIMES AND FUNCTIONAL ANATOMY IN THE MUSTELID FORELIMB: DIVERSIFICATION TOWARDS SPECIALIZATIONS FOR CLIMBING, DIGGING, AND SWIMMING

11:00
J. K. Lungmus
INCREASED LIMB MORPHOLOGICAL DISPARITY COINCIDENT WITH THE EMERGENCE OF MAJOR SYNAPSID CLADES AND SHIFTS TO NEW MORPHOFUNCTIONAL TYPES

11:15
J. Meachen, R. H. Dunn, C. Cooper, J. Lemert
WHAT CAN THE SCAPHOLUNAR BONE TELL US ABOUT THE LOCOMOTION AND HABITAT OF EXTINCT CARNIVORES?

11:30
D. A. Croft
 PATTERNS OF LIMB ELONGATION IN ENDEMIC SOUTH AMERICAN UNGULATES (NOTOUNGULATA AND LITOPTERNA) AS MEASURED BY METATARSAL/FEMUR RATIO

11:45
J. D. Marcot
LIMB EVOLUTION OF NORTH AMERICAN UNGULATES IN RESPONSE TO CENOZOIC ENVIRONMENTAL CHANGE

12:00
P. Polly, J. J. Head
MACROECOLOGY OF LIMBS: ECOMETRICS, COMMUNITY ASSEMBLY, AND CLADE SORTING IN LIMB TRAITS IN NEOGENE CARNIVORA

WEDNESDAY MORNING, AUGUST 23, 2017
TECHNICAL SESSION I
TELU CONVENTION CENTRE, MACLEOD D
MODERATORS: Kirstin Brink and Kentaro Chiba

8:00
M. Danto, F. Witzmann, S. E. Pierce, N. B. Fröbisch
DEVELOPMENT AND STRUCTURE OF EARLY TETRAPOD VERTEBRAL CENTRA: A PALEOHISTOLOGICAL APPROACH

8:15
K. Curry Rogers, R. Martinez, O. Alcober, C. Colombi
COMPARATIVE BONE HISTOLOGY IN THE ISCHIGUALASTO FORMATION (UPPER TRIASSIC): SHEDDING LIGHT ON EARLY DINOSAUR GROWTH PATTERNS

8:30
P. Sander
SYSTEMATIC VALUE OF LONG BONE HISTOLOGY OF MAJOR DINOSAUR CLADES

29
8:45  A. Canoville, T. Yang, L. Zanno, W. Zheng, M. Schweitzer    PALEOHISTOLOGY OF A GRAVID OVIRAPTOROSAURIAN DINOSAUR FROM THE UPPER CRETAUCEOUS NANXIONG FORMATION, CHINA, WITH AN ENIGMATIC ENDOSTEALE TISSUE

9:00  A. Chinsamy-Turan, I. Cerda, D. Pol, C. Apaldetti, Otero, J. Powell, R. N. Martínez    GROWTH DYNAMICS OF SAUROPODOMORPH DINOSAURS

9:15  K. Chiba, N. E. Campione, D. C. Evans    EMPIRICAL TESTING OF DEVELOPMENTAL MASS EXTRAPOLATION FOR IMPROVED GROWTH CURVE RECONSTRUCTION

9:30  N. Campione, D. C. Evans    COMPARING SCALING AND VOLUMETRIC METHODS FOR DINOSAUR BODY MASS ESTIMATION

9:45  WITHDRAWN

10:00  BREAK


10:30  H. P. Street, A. R. LeBlanc, M. W. Caldwell    HISTOLOGIC ANALYSIS OF MOSASAUR TOOTH CROWN FEATURES AND THEIR DEVELOPMENTAL SIGNIFICANCE

10:45  K. Brink, T. Grieco, J. Richman    MORPHOGENESIS OF THE EGG TOOTH IN THE LEOPARD GECKO AS A MODEL FOR THE DEVELOPMENT OF DENTAL SIZE VARIATION IN AMNIOTES

11:00  K. K. Bramble, A. R. LeBlanc, M. Wosik, P. J. Currie    HISTOLOGY AND INTERNAL ANATOMY OF AN ENTIRE HADROSaurid DENTAL BATTERY WITH EVIDENCE OF TOOTH MIGRATION


11:45  K. Button, L. Zanno    OSTEOLOGICAL CORRELATES OF RHAMPHOTHECA MORPHOLOGY IN BIRDS: RAMIFICATIONS FOR SOFT TISSUE RECONSTRUCTION IN THEROPODS

12:00  B. S. Bhullar, M. Hanson, J. Botelho, D. Smith, M. Faunes, D. Field, M. Fabbrri, D. A. Burnham, L. E. Wilson    ITERATIVE EVOLUTIONARY AND DEVELOPMENTAL APPEARANCE OF THE AVIAN BEAK REVEALED BY NEW FOSSIL AND EMBRYOLOGICAL DATA

WEDNESDAY MORNING, AUGUST 23, 2017
TECHNICAL SESSION II
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Erin Maxwell and Dana Ehret

8:00  C. D. Whalen, D. E. Briggs    THE PALEOZOIC RISE OF EUNEKTIC VERTEBRATES


8:45  V. Vaskaninova, P. E. Ahlberg    UNEXPECTED DENTITIONS DISCOVERED IN THREE GENERA OF EARLY DEVONIAN ACANTHOTHORACID PLACODERMS FROM THE PRAGUE BASIN (CZECH REPUBLIC)

9:00  R. P. Dearden, M. D. Brazeau    THE EARLIEST THREE-DIMENSIONALLY PRESERVED CHONDRICHTHYAN BRANCHIAL SKELETON IN THE EARLY DEVONIAN ACANTHODIAN PTOMACANTHUS ANGLICUS


9:45 A. Maltese, J. Liston PETTY TRIBALISM UNMASKED: OVEREMPHASIS ON DERMATOCRANIAL DATA IN PACHYCORMIDAE LEADS TO SKewed INTRAFAMILIAL PATTERNS

10:00 BREAK


10:45 C. Syme, S. Salisbury, K. Welsh, E. Roberts LIVING BY THE EROMANGA SEA: EVIDENCE OF BRACKISH-WATER TOLERANT CROCODYLIFORMS AND OSTEICHTHYANS FROM THE LOWER CRETACEOUS WINTON FORMATION AT ISISFORD, QLD

10:00 O. V. Vernygora, A. M. Murray PHYLOGENETIC REASSESSMENT OF ARMIGATUS ALTICORPUS (TELEOSTEI, CLUPEOMORPHA, ELLIMMICHTHYIFORMES) AND NEW CLUPEOMORPH MATERIAL FROM THE LATE CRETACEOUS (CENOMANIAN) OF HAKEI, LEBANON

11:00 E. D. Grogan, R. Lund A NON-CONFORMIST: THE BEAR GULCH LIMESTONE CHONDRICHTHYAN LIONFISH

11:00 O. V. Vernygora, A. M. Murray PHYLOGENETIC REASSESSMENT OF ARMIGATUS ALTICORPUS (TELEOSTEI, CLUPEOMORPHA, ELLIMMICHTHYIFORMES) AND NEW CLUPEOMORPH MATERIAL FROM THE LATE CRETACEOUS (CENOMANIAN) OF HAKEI, LEBANON

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11:15 E. D. Grogan, R. Lund A NON-CONFORMIST: THE BEAR GULCH LIMESTONE CHONDRICHTHYAN LIONFISH

11:30 D. J. Ehret, J. A. Ebersole NEW LATE CRETACEOUS (SANTONIAN-CAMPANIAN) GENUS OF LAMNIFORM SHARK FROM THE MOOREVILLE CHALK OF ALABAMA, USA

11:45 B. M. Wynd, D. G. DeMar, G. P. Wilson DIVERSITY OF CHONDRICHTHYANS THROUGH THE UPPERMOST CRETACEOUS (MAASTRICTHIAN) HELL CREEK FORMATION OF GARFIELD COUNTY, MONTANA, WITH IMPLICATIONS FOR THE CRETACEOUS-PALEOGENE MASS EXTINCTION

12:00 J. Kriwet, T. Moers, M. A. Reguero, W. Kiessling, A. Engelbrecht DIVERSITY DYNAMICS ARE LINKED TO CLIMATE CHANGE IN CARTILAGINOUS FISHES (CHONDRICHTHYES, HOLOCEPHALI ELASMOBRANCHII) FROM THE EOCENE OF ANTARCTICA

WEDNESDAY AFTERNOON, AUGUST 23, 2017
TECHNICAL SESSION III
TELUS CONVENTION CENTRE, MACLEOD C
MODERATORS: Stephanie Baumgart and Thomas Stidham

1:45 C. A. Tomlinson, D. A. Burnham ANIMATING PALEOGNATHOUS AND NEOGNATHOUS PALATAL FUNCTION TO PREDICT CRANIAL KINESIS IN THE UNKNOWN COMMON NEORNITHINE ANCESTOR

2:00 J. Watanabe COMPARATIVE ONTOGENY OF AVIAN LIMB SKELETON: IMPLICATIONS FOR ONTOGENETIC AGEING AND EVOLUTIONARY VARIABILITY

2:15 M. K. Struble, J. Gardner, C. Organ BIOMECHANICAL STRESSES OF PEDAL GRASPING BEHAVIOR WITHIN MODERN AVES: MORPHOLOGICAL ADAPTATIONS AND MESOZOIC IMPLICATIONS

2:30 J. Hall THE FUNCTIONAL SIGNIFICANCE OF PTILOPODY IN EXTANT AND EXTINCT BIRDS

2:45 S. Baumgart RELATING ECOLOGY TO STERNUM MORPHOLOGY IN“WATER BIRDS”

3:00 D. Ksepka, F. Degrange, C. P. Tambussi THE OLDEST CROWN CLADE PENGUIN: OSTEORELOGY, JAW MYOLOGY, AND NEUROANATOMY OF MADRYNORNIS MIRANDUS

3:15 C. Faux, D. Field DIFFERENTIAL GROWTH RATE IN THE WINGS OF RATITE EMBRYOS SUPPORT INDEPENDENT FLIGHT LOSS MECHANISMS

3:30 T. A. Stidham, Z. Li, Z. Zhou, T. Deng A LATE MIocene OSTRICH (STRUTHIONIDAE) POPULATION FROM HEZHENG, CHINA AND IMPLICATIONS FOR THE PALEOBIOLOGY, TAXONOMY, EVOLUTION, AND BIOGEOGRAPHY OF EURASIAN OSTRICHES

3:45 G. Navalón, J. A. Bright, J. Marugán-Lobón, E. J. Rayfield CRANIAL INTEGRATION PATTERNS IN LANDBIRDS AND IMPLICATIONS FOR THE DIVERSIFICATION OF PASSERINES

4:00 G. M. Musser RESOLVING THE RADIATION AND PHENOTYPIC EVOLUTION OF BASAL NEOAVES: BEGINNING CONSTRUCTION OF A NEW MORPHOLOGICAL DATASET AND A NOVEL SISTER TAXON FOR APTORNIS

2:00  D. L. Fraser, R. J. Haupt, W. Barr  TOOTH WEAR DIETARY PROXIES SHOW STRONG PHYLOGENETIC SIGNAL

2:15  H. O'Brien, M. Belmaker  MESOWEAR METHOD COMPARISONS DEMONSTRATE NARROWER ORDINAL SCALES ARE MORE PREDICTIVE OF DIETARY AND ECOLOGICAL VARIABLES

2:30  B. P. Tanis, L. R. DeSantis, R. C. Terry  LINKING MICROWEAR ACROSS THE DENTAL ARCADE: ARE CANID DIETARY SIGNALS FROM THE M1 TALONID COMPARABLE TO THE M2?

2:45  E. Yamada, M. O. Kubo, T. Kubo, N. Kohno  THREE DIMENSIONAL MICROWEAR ANALYSIS WITH ISO SURFACE ROUGHNESS PARAMETERS FOR EXPLORING THE DOMESTICATED PIG IN THE PAST

3:00  D. C. Kalthoff, J. L. Green  HARMONIOUS COLLABORATION OF DENTAL MICROWEAR ANALYSES BY STEREOMICROSCOPY AND SCANNING ELECTRON MICROSCOPY: THE CASE OF OLIGOCENE SLOTHS (MAMMALIA, XENARTHRA)

3:15  R. J. Haupt, M. Clementz, R. N. Cliffe  ISOTOPIC OFFSETS BETWEEN DIET AND HAIR AND FECES IN EXTANT SLOTHS: IMPLICATIONS FOR PALEONTOLOGICAL INTERPRETATIONS

3:30  W. Nguy, R. Secord  RECONSTRUCTING THE PALEOENVIRONMENT OF MIDDLE MIOCENE NEBRASKA, USA FROM STABLE ISOTOPES IN THE TEETH OF LARGE HERBIVORES


4:00  K. Suraprasit, Y. Chaimanee, H. Bocherens, J. Jaeger  PALEOECOLOGICAL AND PALEOCLIMATIC RECONSTRUCTIONS OF THE PLEISTOCENE KHOK SUNG VERTEBRATE FAUNA (NAKHON RATCHASIMA PROVINCE, NORTHEASTERN THAILAND): STABLE CARBON AND OXYGEN ISOTOPE INVESTIGATIONS OF UNGULATE TOOTH ENAMEL

1:45  M. M. Gilbert, E. L. Bamforth  PALEOECOLOGY OF A VERTEBRATE MICROFOSSIL ASSEMBLAGE FROM THE EASTERNMOST DINOSAUR PARK FORMATION (UPPER CAMPANIAN) SASKATCHEWAN, CANADA: RECONSTRUCTING DIVERSITY IN A COASTAL ECOSYSTEM

2:00  M. P. Oreska, M. T. Carrano  A BAYESIAN APPROACH TO TERRESTRIAL PALEOECOLOGY: PALEOENVIRONMENTAL MIXING IN VERTEBRATE MICROFOSSIL ASSEMBLAGES FROM THE DINOSAUR PARK FORMATION (UPPER CRETACEOUS)

2:15  S. R. Mohr, J. H. Acorn, P. J. Currie  ISOLATED “BIRD” TEETH FROM THE CRETACEOUS OF ALBERTA ARE FROM JUVENILE CROCODILIANS

2:30  E. L. Bamforth, T. Tokaryk, H. C. Larsson  MARINE INFLUENCE AS A HIDDEN DRIVER OF PALEOBIODIVERSITY: AN EXAMPLE FROM THE LATEST CRETACEOUS (66 MA) OF SOUTHWEST SASKATCHEWAN, CANADA


3:00  T. M. Cullen, F. J. Longstaffe, U. G. Wortmann, M. B. Goodwin, L. Huang, D. C. Evans  STABLE ISOTOPE ANALYSIS OF AN EXTANT VERTEBRATE COMMUNITY USING PALEONTOLOGICAL SAMPLING CONSTRAINTS REVEALS LOW ECOLOGICAL RESOLUTION IN A C3 FLOODPLAIN SYSTEM

3:15  A. Lawing, J. L. McGuire, K. Maguire, S. Goring, J. Blois  OCCUPANCY MODELING IN PALEOECOLOGY
3:30 S. Pineda-Munoz NEW METHOD FOR PALEOECOLOGICAL RECONSTRUCTION AND ECOMORPHOSPACE ANALYSIS: SAMPLING THE SPATIAL DISTRIBUTION OF DATA ACROSS MORPHSPACES


4:00 G. T. Lloyd WHAT THE VERTEBRATE FOSSIL RECORD CONTRIBUTES TO CONSERVATION BIOLOGY PRIORITIES

WEDNESDAY - THURSDAY, AUGUST 23-24, 2017
SVP 2017 EDWIN H. AND MARGARET M. COLBERT PRIZE COMPETITION POSTER
TELUS CONVENTION CENTRE, MACLEOD A1-A4 AND PRE-FUNCTION

Authors must be present from 4:15 - 6:15 p.m. Thursday, August 24

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

B1 L. S. Lassiter, D. K. Elliott A PHYLOGENETIC REVIEW OF THE HETEROSTRACAN FAMILY CYATHASPIDIDAE


B6 R. C. Garbin, M. Böhme, W. G. Joyce NEW GEOEMYDID MATERIAL FROM THE EOCENE OF VIETNAM AND ITS IMPLICATION FOR GEOEMYDID SYSTEMATICS

B7 C. T. Griffin, K. D. Angelczyk THE EVOLUTION OF THE DICYNODONT SACRUM, WITH IMPLICATIONS FOR EVOLUTIONARY CONSTRAINT IN THE VERTEBRAL COLUMN OF MAMMALIA

B8 P. Lai, A. Biewener, S. E. Pierce RANGE OF MOTION AND MUSCLE ATTACHMENTS IN A CYNODONTPECTORAL GIRDLE AND FORELIMB

B9 J. V. Proffitt, C. R. Torres, J. A. Clarke, M. A. Norell AN EXCEPTIONALLY PRESERVED FULMARINE PROCELLARIIFORM FROM THE MIocene OF CALIFORNIA

B10 A. C. Cincotta, V. Debaillie, A. Gerdes, S. Sinitza, S. Reshetova, K. Pestchevitskaya, M. McNamara, J. Yans, P. Godfroit AGE, SEDIMENTOLOGY AND PALEOECOLOGY OF KULINDA, AN EXCEPTIONAL MIDDLE JURASSIC DINOSAUR LOCALITY FROM SIBERIA

B11 M. Wosik, K. Chiba, D. C. Evans LIFE HISTORY OF EDMONTOSAURUS FROM THE LATE CRETACEOUS (MAASTRICHTIAN) RUTH MASON DINOSAUR QUARRY, SOUTH DAKOTA, UNITED STATES

B12 K. Schroeder, T. E. Williamson, S. Brusatte, M. Espy, C. Gautier, J. Hunter, A. Losko, R. Nelson, S. Vogel NEUTRON COMPUTED TOMOGRAPHY OF CRETACEOUS TYRANNOSAURID BISTAHIEVERSOR SEALYEI AND PALEOCENE PHENACODONTID TETRACLAENODON PUERCENSIS SKULLS SHOWS DETAIL NOT EASILY VISIBLE WITH X-RAY CT

B13 K. Jäger, R. Cifelli, T. Martin TOOTH ERUPTION AND POSSIBLE DIMORPHISM IN TRICONODON MORDAX

B14 T. Plogshities, T. Martin THE MASTICATORY CYCLE IN ACUTE ANGLED SYMMETRODONT

B15 R. C. Hielscher, R. Scheilhorn, T. Martin STATISTICAL ANALYSES OF MOLAR CROWN RELIEF OF BATS WITH LINKS TO FOOD PREFERENCES

B16 T. Engler, R. C. Hielscher, T. Martin INFERRING DIETARY ADAPTATIONS OF PALEOCENE SMALL MAMMALS FROM WALBECK (GERMANY) BY MOLAR RELIEF INDEX

B17 K. A. Prufrock, J. M. Perry CRESTS, CUSPS, AND DIET OF ASIADAPIDS (ADAPOIDEA, EUPRIMATES) FROM VASTAN MINE (GUJARAT, INDIA)
B18  N. S. Vitek, S. G. Strait, D. M. Boyer, J. I. Bloch  MORPHOLOGICAL RESPONSE OF THREE CLOSELY RELATED SMALL-BODIED MAMMALS (EULIPOTYPHLA, ERINACEOMORPHA) TO CLIMATE CHANGE ACROSS THE PALEOCENE-EOCENE THERMAL MAXIMUM

B19  J. E. Grimes, D. S. Taylor, R. C. Terry  MORPHOLOGICAL AND ISOTOPIC ASSESSMENT OF DIETARY FLEXIBILITY: DIFFERENT STRATEGIES ALLOWING FOR PERSISTENCE IN THE FACE OF NATURAL AND ANTHROPOGENIC ENVIRONMENTAL CHANGE

B20  D. M. Reuter, S. S. Hopkins, N. A. Famoso  MAMMALIAN COMMUNITY STRUCTURE THROUGH TIME: OREGON MIocene COMMUNITY CHANGE IN RESPONSE TO SPREADING GRASSLANDS

B21  B. McHorse, S. E. Pierce  DIVERSITY DYNAMICS AND DIGIT REDUCTION IN FOSSIL HORSES

WEDNESDAY, AUGUST 23, 2017
POSTER SESSION I
TELUS CONVENTION CENTRE, MACLEOD A1-A4 AND PRE-FUNCTION
Authors must be present from 4:15 - 6:15 p.m. Wednesday, August 23
Posters must be removed by 6:30 p.m.

B22  M. D. Karaus, J. L. Green  VARIATION IN ORTHODENTIN MICROWEAR ALONG THE TOOTH ROW IN THE CARNIVORE-OMNIVORE EUPHRACHTUS SEXCINCTUS (XENARTHRA, CINGULATA)

B23  T. J. Gaudin  AN ISOLATED PETROSAL OF THE PAMPATHERE HOLMESINA FLORIDANUS FROM THE BLANCA NALMA OF FLORIDA

B24  S. M. Beery, R. K. McAfee  EXPLORATION OF INTERSPECIFIC VARIATION IN PAROCNUS (MAMMALIA: PILOSA: MEGALONYCHIDAE) FROM HISPANIOLA: PRELIMINARY IMPLICATIONS FOR TAXONOMIC REVISION AND DIVERSITY

B25  E. A. Buchholtz, A. Feldman, H. McDonald, T. J. Gaudin  IS THE MAMMALIAN PRESTERNUM COMPOSITE? EVIDENCE FROM PARAMYLODON HARLANI

B26  J. Brinkkötter, A. H. Schwermann, T. Martin  MOLAR FUNCTION OF JURASSIC PSEUDOTRIBOSPHENIC DOCODONTS (MAMMALIAFORMES) AND TRIBOSPHENIC MONODELPHIS (DIDELPHIDAE) IS SIMILAR IN CRUSHING AND GRINDING EFFICIENCY

B27  E. Panciroli, J. A. Schultz, Z. Luo  MORPHOLOGY OF THE PETROSAL AND STAPES OF BOREALESTES SERENDIPITUS (MAMMALIAFORMES, DOCODONTA) FROM THE JURASSIC OF SKYE, SCOTLAND

B28  N. Ikegami, Y. Tomida  FIRST METATHERIAN MAMMAL FROM JAPAN: PALEOBIOGEOGRAPHIC IMPLICATIONS

B29  T. Harper, G. Rougier  SYSTEMATIC AND FUNCTIONAL IMPLICATIONS OF NEW MATERIAL FROM THE LATE CRETAceOUS MAMMAL REIGITERIUM


B31  J. J. Eberle, W. A. Clemens, P. S. Druckenmiller, G. M. Erickson, A. R. Fiorillo  NEW INSIGHTS INTO A MAASTRICHTIAN MAMMALIAN FAUNA FROM THE NORTH SLOPE OF ALASKA

B32  F. Mao, X. Zheng, X. Wang, Y. Wang, S. Bi, J. Meng  POSSIBLE DIPHYODONTY AS EVIDENCE OF MAMMALNESS FOR HARAMIYIDANS

B33  D. W. Krause, S. Hoffmann, S. Werning  FIRST POSTCRANIAL REMAINS OF MULTITUBERCULATES (ALLOTHERIA, MAMMALIA) FROM GONDWANA

B34  M. Chen, M. T. Carrano  REVISITING THE FEEDING ECOLOGY OF PTILODUS MONTANUS (MAMMALIA: MULTITUBERCULATA) USING 3D MODELING


B36  T. E. Williamson, B. Standhardt, C. Leslie  THERIAN MAMMALS FROM THE LOWER BLACK PEAKS FORMATION, BIG BEND NATIONAL PARK, TEXAS ARE TORREJONIAN, NOT PUERCAN, IN AGE
<table>
<thead>
<tr>
<th>Page</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B37</td>
<td>J. P. Hunter, N. H. Honer, D. W. Krause, J. H. Hartman</td>
<td>A MID PALEOCENE MAMMALIAN FAUNA FROM EASTERN MONTANA</td>
</tr>
<tr>
<td>B38</td>
<td>R. A. Ridder, K. Beard</td>
<td>MAMMAL COMMUNITY COMPOSITION AT A NEWLY-DISCOVERED LATE TIFANIAN (TI-5) SITE IN SOUTHWESTERN WYOMING</td>
</tr>
<tr>
<td>B39</td>
<td>G. Metais, E. De Bast</td>
<td>A NEW PLEURASPIDOTHERIID MAMMAL FROM THE LATEST PALEOCENE OF FRANCE AND ITS PHYLOGENETIC IMPLICATIONS</td>
</tr>
<tr>
<td>B40</td>
<td>S. P. Zack, K. D. Rose, K. Kumar, R. Rana, T. Smith</td>
<td>AN ENIGMATIC NEW UNGULATE FROM THE EARLY EOCENE OF INDIA</td>
</tr>
<tr>
<td>B41</td>
<td>K. Miyata, Y. Okazaki, H. Sakai, Y. Tomida</td>
<td>TAXONOMIC EVALUATION OF A CORYPHODONTID PANTODONTAN (MAMMALIA, PANTODONTA) FROM THE MIDDLE EOCENE OYAKE FORMATION, FUKUOKA PREFECTURE, JAPAN</td>
</tr>
<tr>
<td>B42</td>
<td>S. V. Robson, E. B. Davis, N. A. Famoso, S. S. Hopkins</td>
<td>FIRST MESONYCHID KNOWN FROM THE CLARNO FORMATION (EOCENE) OF OREGON</td>
</tr>
<tr>
<td>B43</td>
<td>D. Lofgren, D. Hanneman, J. Bibbens, B. Kong, A. Tarakji</td>
<td>MAMMALIAN BIOSTRATIGRAPHY OF HIGH ELEVATION TERTIARY STRATA IN THE GRAVELLY RANGE, SOUTHWESTERN MONTANA</td>
</tr>
<tr>
<td>B44</td>
<td>J. W. Westgate</td>
<td>A MECO RAIN FOREST COMMUNITY FROM THE MIDDLE EOCENE LAREDO FORMATION</td>
</tr>
<tr>
<td>B45</td>
<td>S. Mallick</td>
<td>DISSECTING THE EVOLUTIONARY HISTORY OF ELEPHANTS</td>
</tr>
<tr>
<td>B46</td>
<td>B. Sun, S. Wang, T. Deng</td>
<td>MIOCENE MAMMALIAN FAUNAS FROM THE WUSHAN, CHINA, AND THEIR SIGNIFICANCE FOR EVOLUTION, BIOCHRONOLOGY, AND BIOGEOGRAPHY</td>
</tr>
<tr>
<td>B47</td>
<td>S. R. Johnston, W. J. Sanders</td>
<td>AGE, AFFINITY, AND SUCCESSION OF STEGODONTID PROBOSCIDEANS FROM MIDDLE MIOCENE-LATE PLIOCENE FORMATIONS OF THE SIWALIK SEQUENCE IN SOUTH ASIA</td>
</tr>
<tr>
<td>B51</td>
<td>D. A. Esker</td>
<td>TRACKING THE LAST MEALS AND MOVEMENTS OF AN ADOLESCENT MAMMUTHUS COLUMBI WITH STABLE ISOTOPE ANALYSIS OF ENAMEL AND VEGETATION</td>
</tr>
<tr>
<td>B52</td>
<td>K. M. Smith, A. C. Dooley</td>
<td>TUSK MORPHOLOGY IN THE VALLEY OF THE MASTODONS (CALIFORNIA, USA): ARE WESTERN MASTODON TUSKS DISTINCTIVE LIKE WESTERN MASTODON MOLARS?</td>
</tr>
<tr>
<td>B53</td>
<td>A. Grass, J. E. Morrow</td>
<td>THE ARKANSAS KING MASTODON SITE AND ASSOCIATED MASTODON TUSK ALVEOLAR PATHOLOGIES</td>
</tr>
<tr>
<td>B55</td>
<td>J. Liu, F. Abdala</td>
<td>NEW PERMIAN THEROCEPHALIANS FROM CHINA</td>
</tr>
<tr>
<td>B57</td>
<td>M. Romano, N. Brocklehurst, J. Fröbisch</td>
<td>REDESCRIPTION OF THE POSTCRANIAL SKELETON OF ENNATOSAURUS TECTON (SYNAPSIDA, CASEASAURIA, CASEIDAE) AND ITS FIRST IN VIVO RESTORATION</td>
</tr>
<tr>
<td>B58</td>
<td>N. Brocklehurst, J. Fröbisch</td>
<td>A RE-EXAMINATION OF MILOSAURUS MCCORDI, AND THE EVOLUTION OF LARGE BODY SIZE IN CARBONIFEROUS SYNAPSIDS</td>
</tr>
</tbody>
</table>
B60  J. Huang, R. Motani, Y. Hu, D. Jiang  TOOTH STRUCTURE FOUND IN THE BASAL ICHTHYOSAURIFORM CARTORHYNCHUS LENTICARPUS

B61  W. Lin, D. Jiang, Z. Sun  A NEW PACHYPLEUROSAUR (REPTILIA; SAUROPTERYGIA) FROM THE MIDDLE TRIASSIC GUANLING FORMATION OF SOUTHWESTERN CHINA

B62  Q. Shang, J. Liu, C. Li  NEW MATERIAL OF A SMALL Sized EOSAUROPTERYGIAN FROM THE MIDDLE TRIASSIC OF LUOPING, YUNAN, CHINA

B63  T. Sato, T. Hanai, S. Hayashi, T. Nishimura  A TURONIAN POLYCOTYLID PLESIOSAUR (REPTILIA; SAUROPTERYGIA) FROM HOKKAIDO, JAPAN, AND ITS BIOSTRATIGRAPHIC AND HISTOLOGICAL SIGNIFICANCE

B64  P. L. Holman  WHAT DOES THE CO-OSSIFICATION OF THE VERTEBRAL AND PECTORAL GIRDLE ELEMENTS SHOW ABOUT THE SKELETAL MATURITY OF DOLICHORHYNCHOPS?

B65  R. S. Nagesan, J. S. Anderson  NECK MOBILITY OF THE PLESIOSAUR NICHOLOSSAURA BOREALIS (PLESIOSAURIA; LEPTOCLEIDIDAE)

B66  J. A. Campbell, M. T. Mitchell, J. S. Anderson  A REMARKABLY WELL-PRESERVED ELASMOsaUR (SAUROPTERYGIA; PLESIOSAURIA) SPECIMEN FROM THE UPPER CRETACEOUS (CAMPANIAN) DINOSAUR PARK FORMATION OF SOUTHERN ALBERTA


B68  K. M. Jenkins, E. Stelling, J. D. Daza  THE APPENDICULAR SKELETON OF A MID-CRETACEOUS LIZARD (SQUAMATA: SCINCOIDEA?)

B69  T. Ikeda, D. K. Zelenitsky, H. Ota, K. Tanaka, F. Therrien  FRAGMENTARY MANDIBLES OF FOSSIL LIZARDS FROM THE UPPER CRETACEOUS OLDMAN FORMATION, DEVIL'S COULEE, SOUTHERN ALBERTA, CANADA

B70  K. G. Zumach, P. C. Sereno  DIGITAL CRANIAL RECONSTRUCTION: DOCUMENTING VISUALIZATION METHODOLOGY AND DECISION-MAKING IN THREE-DIMENSIONAL COMPUTED TOMOGRAPHIC RECONSTRUCTION OF FOSSIL SKULLS, AS EXEMPLIFIED USING THE EARLY CRETACEOUS BASAL SQUAMATE NORELLIUS NYCTISAUROPS


B72  B. R. Chapman, J. R. Lively  A NEW MOSASAURINE FROM THE UPPER CRETACEOUS (LOWER CONIACIAN) OF NORTH TEXAS DEMONSTRATES MOSAIC EVOLUTION IN EARLY MOSASAURS


B74  C. C. Green, L. Wilson  PRELIMINARY RESULTS OF LONG BONE HISTOLOGY IN AN ONTOGENETIC SERIES OF CLIDASTES (SQUAMATA: MOSASAURINAE)

B75  S. Faude, M. Habib  IT TAKES NERVE: PERIPHERAL NERVE CONDUCTION TIME WAS A POTENTIAL LIMIT ON DYNAMIC FLIGHT CONTROL IN GIANT PTEROSAURS

B76  B. H. Breithaupt, N. A. Matthews  PRECISE 3D PHOTOGRAMMETRY REVEALS NEW INFORMATION ON PTEROSAUR ICHNOTAXONOMY AND TERRESTRIAL LOCOMOTION: REVISITING THE ICHNOHOLOTYPE OF PTERAICHNUS SALTWASHENSIS

B77  H. Kim, I. Paik  PRELIMINARY STUDY ON THE NEW PTEROSAUR FOOTPRINTS FROM THE EARLY CRETACEOUS HASANDONG FORMATION OF HADONG-GUN, GYEONGSANGNAM-DO, SOUTH KOREA

B78  K. L. Rosenbach, J. A. Wilson, I. Zalmout  NEW AZHDARCHID PTEROSAUR REMAINS FROM THE LATE CRETACEOUS (MAASTRICHTIAN) OF JORDAN


B80  K. Andrzejewski, D. Winkler, L. Jacobs  SYSTEMATICS AND DESCRIPTION OF THE”PROCTOR LAKE ORNITHOPOD”
| B81 | D. E. Barta, M. A. Norell | ONTOGENETIC CHANGES IN THE OSTEOHISTOLOGY OF *HAYA GRIVA*, A BASAL NEORNITHISCAN DINOSAUR FROM THE UPPER CRETACEOUS JAVKHLANT FORMATION OF MONGOLIA |
| B83 | T. C. Hunt, J. E. Peterson, J. A. Frederickson, J. E. Cohen, J. L. Berry | NEW INSIGHTS INTO *TENONTOSAURUS TILLETII* (DINOSAURIA; ORNITHOPODA) FROM AN EXCEPTIONALLY PRESERVED SPECIMEN |
| B84 | K. H. Stein, T. Hübner, C. Snoeck, F. Bertozzo, P. Godefroit, P.Claeys | HISTOLOGY AND GROWTH OF *IGUANODON BERNISSARTENSIS* |
| B85 | J. Driebergen, R. Cifelli, L. Zanno, A. Prieto-Marquez, P. Makovicky | COMPARATIVE TAPHONOMY OF TWO JUVENILE *EOLAMBIA CAROLJONESA* (HADROSAURIA) BONEBEDS FROM THE CEDAR MOUNTAIN FORMATION OF UTAH |
| B86 | M. G. Thompson, M. J. Ryan, C. J. Schröder-Adams, F. Bedek, D. C. Evans | HADROSAUR FAUNAL DIVERSITY DURING THE CLAGGETT MARINE REGRESSION OF CAMPANIAN NORTHERN LARAMIDIA |
| B87 | F. Bertozzo, K. Stein, P. Godefroit, P. Claeys | THE MUMMY RETURNS: "LAURA", AN EXCEPTIONALLY PRESERVED HADROSAUR MUMMY FROM MONTANA (USA), WITH REMARKS ON THE FOSSILIZED INTEGUMENT |
| B88 | E. T. Drysdale, F. Therrien, D. K. Zelenitsky, D. B. Weishampel | HISTOLOGY REVEALS TIMING OF CREST DEVELOPMENT IN *PROSAUROLOPHUS MAXIMUS* (HADROSAURIDAE: SAUROLOPHINAE); IMPLICATIONS FOR SEXUAL DISPLAY AND MATURITY |
| B89 | J. Slowiak, L. Fostowicz-Frelik, M. S. Ginter | ONTOGENETIC CHANGES IN BONE TISSUE OF *SAUROLOPHUS ANGUSTIROSTRIS* (DINOSAURIA: ORNITHISCHIA) FROM THE LATE CRETACEOUS OF MONGOLIA |
| B90 | T. Gates, D. C. Evans, T. Birthsel, J. Bourke, L. Zanno | A NEW SPECIES OF *PARASAUROLOPHUS* FROM THE UPPER CRETACEOUS KAIPAROWITZ FORMATION OF SOUTHERN UTAH BASED ON A SERIES OF SKULLS |
| B92 | T. L. Stubbs, A. Prieto-Marquez, M. J. Benton | DISPARITY AND RATES OF EVOLUTION IN HADROSAURID DINOSAURS |
| B93 | B. M. Rothschild, B. Borkovic, D. Tanke | OCCURRENCE OF NON-INFECTIOUS SPONDYLOARTHROPATHY IN A LATE CRETACEOUS HADROSAUR FROM SOUTHERN ALBERTA, CANADA |
| B94 | J. C. Kosch, L. E. Zanno | A NEW PROTOCOL FOR THE STUDY OF POLYPHYODONT DENTITIONS WITH MULTIPLE REPLACEMENT TEETH |
| B95 | J. B. McHugh, J. R. Foster, R. Gay, C. Racey | A NEW DILODUCID SKULL AND ASSOCIATED ANTERIOR CERVICAL VERTEBRAE FROM THE UPPER JURASSIC MYGATT-MOORE QUARRY (MORRISON FORMATION) IN RABBIT VALLEY, COLORADO |
| B97 | I. Shimizu, P. Chanthasit, A. Sardsud, S. Khansubha, S. Agematsu, K. Sashida | JUVENILE SAUROPOD REMAINS FROM THE LOWER CRETACEOUS OF PHU PENG, KALASIN PROVINCE, THAILAND |
| B100 | E. Gomani Chindebu, K. Andrzejewski, M. J. Polcyn, D. Winkler, L. L. Jacobs | 3D RECONSTRUCTION OF THE BRAIN ENDOCAST AND INNER EAR OF *MALAWISAURUS DIXEIYI* (SAUROPODA: TITANOSAURIA) |
| B101 | H. Bui, K. Curry Rogers | AN INVESTIGATION OF PATHOLOGICAL VERTEBRAE IN SAUROPOD DINOSAURS FROM THE UPPER CRETACEOUS MAEVARANO FORMATION OF MADAGASCAR |
R. T. McCrea, L. Buckley, M. G. Lockley, L. Xing, N. Matthews  OCCURRENCES OF SAUROPODA FROM CANADA

J. A. Case  AGE OF THE ADAMANTINA FORMATION, UPPER BAURU GROUP, LATE CRETACEOUS, BRAZIL

THURSDAY MORNING, AUGUST 24, 2017
ROMER PRIZE SESSION
TELUS CONVENTION CENTRE, MACLEOD C
MODERATOR: Mark Uhen

8:00  A. M. Mychajliw  FOSSILS, FECES, & THE FUTURE: A 20,000 YEAR EXPERIMENT OF MAMMALIAN EXTINCTIONS ON ISLANDS

8:15  E. Gorscak  AN EMERGING MODEL ON THE PALEOBIOGEOGRAPHIC ROLE(S) OF LATE CRETACEOUS AFRICA: NEW TITANOSAURIAN SAUROPOD DINOSAURS SIGNAL DISTINCT NORTHERN AND SOUTHERN AFRICAN REGIONS

8:30  S. Läbe  THE DINOSAUR SCALE – ICHNOLOGY MEETS SOIL MECHANICS FOR WEIGHT ESTIMATION OF SAUROPOD DINOSAURS BASED ON THEIR TRACKS

8:45  P. J. Bishop  USING CANCELLOUS BONE ARCHITECTURE TO INFER THEROPOD DINOSAUR LOCOMOTOR BIOMECHANICS AND ITS EVOLUTION

9:00  E. Martin-Silverstone  VARIATION IN PTEROSAUR WING BONE GEOMETRY AND IMPLICATIONS FOR PTEROSAUR ECOLOGY

9:15  D. W. Larson  DIETARY INFERENCE AND EVOLUTION IN EXTINCT FAUNIVOROUS REPTILES USING AN ECOMORPHOLOGICAL MODEL OF VARIATION IN THE DENTAL APPARATUS OF VARANID LIZARDS

9:30  T. R. Simões  THE ORIGIN AND EARLY EVOLUTION OF LEPIDOSAURIAN REPTILES

9:45  J. D. Carrillo  SYSTEMATICS, BIOGEOGRAPHY, AND DIVERSITY OF SOUTH AMERICAN NATIVE UNGULATES: NEW RECORDS FROM THE NEOTROPICS AND THEIR IMPLICATIONS FOR THE GREAT AMERICAN BIOTIC INTERCHANGE

10:00  BREAK

10:15  A. R. LeBlanc  HETEROCHRONY AND THE ORIGIN OF THE MAMMALIAN TOOTH ATTACHMENT SYSTEM

10:30  K. Matsui  QUANTITATIVE ANALYSIS OF AQUATIC ADAPTATION IN DESMOSTYlia (MAMMALIA: ?AFROTHERIA) BASED ON CRANIAL CHARACTERISTICS

10:45  A. Villaseñor  INTEGRATING CLIMATE, VEGETATION, AND MAMMAL COMMUNITY DIVERSITY IN PLIOENE EAST AFRICA: IMPLICATIONS FOR EARLY HOMININ EVOLUTION

11:00  M. E. Hoerner  USURPERS AND INSINUATORS: THE ROLE OF COMPETITION IN THE DYNAMICS OF THE GREAT AMERICAN BIOTIC INTERCHANGE

11:15  N. A. Famoso  LARGE VOLCANIC ERUPTIONS DRIVE LOCAL MAMMALIAN COMMUNITY CHANGE

11:30  J. M. Hoffman  THE 'GRIT EFFECT' ON UNGULATE TOOTH WEAR: EVIDENCE FROM EXPERIMENTS AND NATURAL POPULATIONS

11:45  M. Randau  DRIVERS AND CONSTRAINTS OF SHAPE EVOLUTION IN THE VERTEBRAL COLUMN OF FELIDAE (CARNIVORA, MAMMALIA)

12:00  E. T. Saitta  CREATING FOSSILS IN THE LAB: REPLICA Replicating FOSSILIZATION USING SEDIMENT-BASED MATURATION

THURSDAY MORNING, AUGUST 24, 2017
PREPARATORS' SESSION
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Don DeBlieux and Darren Tanke

8:00  A. L. Kowalchuk, I. MacDonald, D. Brinkman  AT THE CUTTING EDGE OF PALEONTOLOGY: THE DIAMOND TIPPED CHAINSAW – ADVANTAGES AND DISADVANTAGES COMPARED TO THE CONCRETE CUT-OFF SAW

8:15  O. E. Demuth, H. Mallison, S. Lautenschlager, E. Tschopp  RETRODEFORMATION AND RECONSTRUCTION OF A CERVICAL SERIES OF GALEAMOPSIS (SAUROPODA: DIPLODOCIDAE)

8:30  A. R. Chainey, W. N. McLaughlin, E. B. Davis, S. S. Hopkins  A TECHNICAL ANALYSIS OF METHODS OF DEFLESHING SMALL MAMMAL MODERN COMPARATIVE SPECIMENS
8:45 M. Cárdenas, K. Moreno  THE MANY BENEFITS OF 3D XRAY IMAGING IN PALEONTOLOGY: PREPARATION OF A DELICATE FOSSIL CONTAINED INSIDE A PLASTER JACKET


9:15 I. D. Browne  EIGHTY PERCENT FASTER AND GOOD ENOUGH? A MORE PRACTICAL PROCESS TO PRODUCE PHOTOGRAMMETRIC MODELS OF VERTEBRATE MICROFOSSILS IN THE 0.5-2 MM SIZE RANGE

9:30 C. Capobianco  ASSESSING AND REHOUSING THE DEPARTMENT OF VERTEBRATE PALEONTOLOGY'S TEACHING COLLECTION AT THE MUSEUM OF COMPARATIVE ZOOLOGY (MCZ), HARVARD UNIVERSITY: A CASE STUDY INTO THE IMPORTANCE OF PREPARATION RECORDS IN REMEDIAL CONSERVATION

9:45 M. R. Grieco, M. Fracasso  LEVERAGING GIS AS A COLLABORATIVE PLATFORM: ESTABLISHING A PALEONTOLOGY RESOURCE DATABASE FOR PUBLIC LANDS

10:00 BREAK

10:15 W. F. Simpson  THE NULLARBOR SWAT TEAM PROJECT: ADDRESSING COLLECTIONS BACKLOGS

10:30 V. R. Rhue  HOW TO STRUCTURE AN EFFECTIVE VOLUNTEER TASK FORCE IN THE LAB AND COLLECTIONS: A CASE STUDY ON ESTABLISHING CRITERIA FOR RECRUTIMENT, SELECTION, AND TRAINING

10:45 M. Qvarnström, G. Niedźwiedzki, P. Tafforeau, Ž. Žigaitė, P. E. Ahlberg  3D-VISUALIZATION OF VERTEBRATE COPROLITES THROUGH PHASE-CONTRAST SYNCHROTRON IMAGING UNRAVEL NEW ASPECTS OF PALEOECOLOGICAL RELATIONS

11:00 J. Liston  PALEONTOLOGICAL RESEARCH IN CHINA IN THE CONTEXT OF THE NEW SVP ETHICS STATEMENT

11:15 F. Fanti, M. Tighe, P. R. Bell, L. Milan, E. Dinelli  GEOCHEMICAL FINGERPRINTING OF GOBI DINOSAURS: A TOOL FOR REPATRIATING POACHED DINOSAUR FOSSILS IN MONGOLIA

11:30 K. A. Stevens, S. Ernst, D. Marty  THE IMPORTANCE OF BEING UNCERTAIN: PROBABILISTIC COMPUTATION OF TRACKMAKER SIZE, GAIT, AND GAUGE

11:45 J. N. Lallensack, H. Barthel, J. N. Lallensack  TRIDACTYL DINOSAUR FOOTPRINTS: SHAPE AS A FUNCTION OF SIZE

12:00 J. R. Lively, C. J. Bell, C. B. Withnell  MOSASAURS AND MICROTINES: TAXONOMIC PRACTICE SHAPES COGNITIVE BIASES IN PALEONTOLOGY

THURSDAY MORNING, AUGUST 24, 2017
TECHNICAL SESSION VI
TELUS CONVENTION CENTRE, MACLEOD D
MODERATORS: Brandon Peecock and Jade Atkins

8:00 E. M. Dunne, R. A. Close, N. Brocklehurst, D. J. Button, R. J. Butler  TERRESTRIAL TETRAPOD DIVERSITY AND BIOGEOGRAPHY ACROSS THE CARBONIFEROUS/PERMIAN BOUNDARY

8:15 A. Mann, H. C. Maddin  A NEW MICROSAUR (LEPOSONDYLI: TETRAPODA) FROM THE CARBONIFEROUS FRANCIS CREEK SHALE, MAZON CREEK, ILLINOIS, AND IMPLICATIONS FOR AN ECOLOGICALLY DIVERSE MICROSAURIAN FAUNA.


8:45 M. Jansen, D. Marjanovic  THE PERMIAN“MICROSAUR” BATROPETES AS A MODEL FOR THE ORIGIN OF FROGS

9:00 D. Lovelace, A. K. Huttenlocker, J. D. Pardo, A. M. Kufner, G. Chen, K. Li  THE FIRST LATE TRIASSIC TEMNOSPONDYL MASS-MORTALITY LOCALITIES FROM THE POPO AGIE FORMATION, FREMONT COUNTY, WY

9:15 J. Atkins, R. R. Reisz, H. C. Maddin  BRAINCASE EVOLUTION IN DISSOROPHOIDEA

9:30 H. C. Maddin  IMPLICATIONS OF THE EVOLUTION OF SOMITIC CONTRIBUTIONS TO THE HEAD ON THE EVOLUTION OF CRANIAL MUSCLES IN TETRAPODS
PATTERNS OF CHONDRIFICATION AND OSSIFICATION IN THE HYOBRANCHIAL APPARATUS OF CRYPTOBRANCHOID SALAMANDERS

NEW DIADECTOMORPH COTYLOSaur MATERIAL FROM THE MIDDLE CLEAR FORK FORMATION, LOWER PERMIAN OF TEXAS

NEW DATA ON SKULL AND POSTCRANIUM OF BYSTROWIANID CHRONIOSUCHIANS, AND THE POSITION OF CHRONIOSUCHIANS WITHIN EARLY TETRAPODS

THE RICHARDS SPUR LOCALITY (289 MA), OKLAHOMA, A UNIQUE UPLAND EARLY PERMIAN LOCALITY WITH A DISTINCT PALEOEcOLOGY

A PARAREPTILE FROM THE LOWER PERMIAN OF THE PARNAÍBA BASIN, NORTHEASTERN BRAZIL

REASSESSMENT OF EARLY PERMIAN REPTILE "CAPTORHINOKS PARVUS" SUGGESTS HERETOFORE UNKNOWN DENTAL AND BIOGEOGRAPHIC COMPLEXITY IN THE BASAL EUREPTIlIAN FAMILY CAPTORHINIDAE

THURSDAY AFTERNOON, AUGUST 24, 2017
TECHNICAL SESSION VII
TELU5 CONVENTION CENTRE, MACLEOD C
MODERATORS: Daniel Field and Jingmai O’Connor

EXPANDED STERNAL RIBS INDICATE AN UNUSUAL ACCESSORY RESPIRATORY MECHANISM IN THE LONG BONY-TAILED CRETACEOUS BIRD JEHOLORNIS

PYGOSTYLE DEVELOPMENT AND ITS IMPLICATIONS FOR THE CRETACEOUS LONG- TO SHORT-TAILED AVIAN TRANSITION

A NEW ENANTIORNITHINE BIRD WITH A PLOUGH-SHAPED PYGOSTYLE AND UNIQUE TIBIOTARSAL FEATHERS

FLIGHT PROPERTIES OF THE EARLY ENANTIORNITHINE BIRD PROTOPTERYX FENGNINGENSIS

THE TROPHIC HABITS OF EARLY BIRDS

RECONSTRUCTING THE FEEDING APPARATUS OF A STEM BIRD: A COMPARATIVE STUDY IDENTIFYING OSTEOREGICAL CORRELATES TO MUSCLES IN THE SKULLS LIVING ARCHOSAURS AND APPLYING THEM TO A FOSSIL TAXON

UNDERSTANDING THE CAUSES OF PHENOTYPIC INTEGRATION PATTERNS IN THE EVOLUTION OF FLIGHTLESS BIRDS

ANCESTRAL ECOLOGICAL RECONSTRUCTIONS AND EVIDENCE OF CANOPY DESTRUCTION REVEAL STRONG ECOLOGICAL SELECTIVITY AMONG BIRDS ACROSS THE K-PG MASS EXTINCTION

GENOMIC SIGNATURE OF AN AVIAN LILLIPUT EFFECT ACROSS THE K-PG EXTINCTION

BIRDS OF A FEATHER Evolve WITH HETEROGENEOUS TEMPO AND MODE BIRDS OF A FEather Evolve With HETEROGENEOUS TEMPO AND MODE
THURSDAY AFTERNOON, AUGUST 24, 2017
TECHNICAL SESSION VIII
TELUS CONVENTION CENTRE, MACLEOD D
MODERATORS: Laura MacLatchy and Sergi López Torres

1:45  E. Gheerbrant  FIRST EVIDENCE FROM THE PALEOCENE OF MOROCCO OF THE CONVERGENCE OF THE QUADRITUBERCULAR-BILOPHODONT PATTERN IN AFROTHERIAN AND LAURASIATHERIAN UNGULATE-LIKE MAMMALS

2:00  S. L. Shelley, T. E. Williamson, S. Brusatte  'ARCHAIC' PALEOGENE MAMMALS POSSESSED UNIQUE LOCOMOTOR STYLES DISTINCT FROM MODERN FORMS: INSIGHTS FROM MULTIVARIATE ANALYSES


2:30  S. López-Torres, M. T. Silcox  THE PHYLOGENETIC RELATIONSHIPS OF THE PAROMOMYIDAE (PRIMATES, MAMMALIA)

2:45  N. H. Honer, M. Hubbe, J. P. Hunter  MODULES AND MOSAICS IN THE EVOLUTION OF THE TETONIUS - PSEUDOTETONIUS DENTITION

3:00  A. L. Atwater, E. C. Kirk  NEW MIDDLE EOCENE OOMYINES (PRIMATES, HAPLORHINI) FROM THE FRIARS FORMATION OF SAN DIEGO COUNTY, SOUTHERN CALIFORNIA

3:15  A. Kemp, E. Kirk  MAMMALIAN EYE ORIENTATION: COMPARISONS OF BONY ORBIT CONVERGENCE AND SOFT TISSUE MEASURES FROM DICE-CT SCANS


3:45  J. Wiemann, D. Briggs  TRACKING DOWN CELLS, NERVES, AND VASCULARITY FOSSILIZED IN VERTEBRATE HARD TISSUES: A FIELD GUIDE

2:00  M. E. McNamara, P. Godfrey, D. Dhouailly, M. J. Benton, S. Sinitsa, Y. Bolotsky, A. Sizov, P. Spagna  ULTRASTRUCTURE AND CHEMISTRY OF INTEGUMENTARY STRUCTURES IN AN ORNITHISCHIAN DINOSAUR

2:15  J. A. Peteya, K. Gao, Q. Li, J. A. Clarke, L. D’Alba, M. Shawkey  MELANOSOME EVOLUTION IN VERTEBRATES

2:45  C. Colleary, A. Dolocan, H. Lamadrid, S. O’Reilly, S. J. Nesbitt  BIOMOLECULE PRESERVATION IN VERTEBRATE FOSSILS FROM DIFFERENT BURIAL ENVIRONMENTS

3:00  J. Heijne, N. Klein, P. Sander  UNRAVELING THE UNUSUAL TAPHONOMY OF THE LOWER MUSCHELKALK (MIDDLE TRIASSIC) LOCALITY OF WINTERSWIJK, THE NETHERLANDS: THE INFLUENCE OF MICROBIAL MATS AND CURRENTS ON THE DISARTICULATION PATTERNS OF MARINE REPTILES


3:30  A. K. Behrensmeyer, R. R. Rogers  THE TYRANNY OF TRANSPORT IN TAPHONOMY – HOW FAR DO BONES REALLY MOVE AND HOW MUCH DOES IT MATTER?
K. M. Loughney  TAPHONOMY OF MAMMAL FOSSILS IN THE BARSTOW FORMATION, SOUTHERN CALIFORNIA, IN RELATION TO FACIES AND ENVIRONMENTS


**THURSDAY, AUGUST 24, 2017**  
**POSTER SESSION II**  
**TELUS CONVENTION CENTRE, MACLEOD A1-A4 AND PRE-FUNCTION**  
Authors must be present from 4:15 - 6:15 p.m. Thursday, August 24  
Posters must be removed by 6:30 p.m.

B22  J. J. Jacisin, A. Lawing  EXPLORING ECOMETRIC RELATIONSHIPS IN THE VERTEBRAE OF NORTH AMERICA SNAKES.

B23  J. Rio, P. Mannion  NEW DATA ON THE GIANT SNAKE *GIGANTOPHIS GARSTINI* FROM THE UPPER EOCENE OF NORTH AFRICA AND ITS BEARING ON THE PHYLOGENETIC RELATIONSHIPS AND BIOGEOGRAPHY OF MADTSOIIDAE


B26  A. B. Quadros, P. Chafrat, H. Zaher  A NEW LIZARD OF THE GENUS *CALLOPISTES* GRAVENHORST 1838 (SQUAMATA; TEIIDAE) FROM THE LOWER MIOCENE OF ARGENTINA, AND THE FOSSIL RECORD OF TEIIDS IN SOUTH AMERICA

B27  A. Čerňanský, J. Klembara  PARTLY ARTICULATED SKELETON OF *OPHISaurus* (SQUAMATA: ANGUIMORPHA) FROM THE MIDDLE MIocene OF EUROPE, WITH COMMENTS ON THE HISTORY OF ANGULID LIMB REDUCTION BASED ON THE ANATOMY OF THE PELVIC GIRLDE


B29  R. C. Ely, J. A. Case  FIRST FOSSIL OCCURRENCES OF THE *SPHENOMORPHUS* SPECIES GROUP (SQUAMATA; SCINCIDAE; LYGOSOMINAE) FROM THE LATE OLIGOCENE NAMBA AND ETADUNNA FORMATIONS OF SOUTH AUSTRALIA

B30  S. G. Scarpetta  LATEST OLIGOCENE GLYPTOSAURINE LIZARDS FROM THE SHARPS AND MONROE CREEK FORMATIONS, SOUTH DAKOTA, AND PHYLOGENETIC AND BIOCHRONOLOGIC IMPLICATIONS

B31  N. J. Czaplewski, K. S. Smith  GONE FROM THE SOUTHERN PLAINS: A PLEISTOCENE *HELODERMA* IN A NEW LOCAL FAUNA FROM A KARSTIC FILLING IN SOUTHWESTERN OKLAHOMA

B32  W. J. Wilkins, J. I. Mead, S. Swift, P. Collins, M. M. Bugbee  NEW FOSSIL HERPETOFAUNA FROM THE LATE PLEISTOCENE OF THE NORTHERN CALIFORNIA CHANNEL ISLANDS, CHANNEL ISLANDS NATIONAL PARK

B33  J. Rej, J. I. Mead, B. W. Schubert  LATE QUATERNARY DRAGON LIZARDS (AGAMIDAE: SQUAMATA) FROM WESTERN AUSTRALIA

B34  L. A. Rooney, J. X. Samuels  POSTCRANIAL MORPHOLOGY AND THE LOCOMOTOR ADAPTATIONS OF EXTANT AND EXTINCT CROCODYLOMORPHS AND LEPIDOSAURS


B37  C. Zhou, S. Shao  THE FIRST JUVENILE SPECIMEN OF MANCHUROCHELYS MANCHOUKOENSIS FROM THE EARLY CRETACEOUS JEHOL BIOTA

B38  G. Abuelkheir, M. K. Abdelgawad  DISCOVERY OF TESTUDINES MATERIALS FROM THE EARLY CENOMANIAN MAGHRABI FORMATION, SOUTH WESTERN DESERT, EGYPT

B39  D. Lawver, E. A. Freedman Fowler  A NEW LARGE-BODIED TURTLE FROM THE LATE CRETACEOUS JUDITH RIVER FORMATION OF MONTANA

B40  R. Hirayama, Y. Nakajima, A. Folie  PLATYCHELONE EMARGINATA, GIGANTIC CRETACEOUS MARINE TURTLE FROM BELGIUM


B42  Y. Yu, C. Sullivan, X. Xu, K. Wang, S. Cheng, P. Wang  A NEW CAENAGNATHID (THEROPODA: Oviraptorosauria) FROM THE UPPER CRETACEOUS WANGSHI GROUP OF SHANDONG, CHINA

B43  R. D. Wilkinson, G. F. Funston, P. J. Currie  ONTOGENETIC VARIATION IN THE BONE HISTOLOGY OF CAENAGNATHID MANDIBULAR SYMPHYSES

B44  W. Ma, M. Pittman, Q. Tan, X. Xu  FUNCTIONAL ANATOMY OF A GIANT DINOSAUR BEAK: GIGANTORAPTOR AND THE EVOLUTION OF THE OVIRAPTOROSAURIAN JAW


B46  T. Trapman, F. M. Holwerda, O. Raubut, J. Reumer, M. Joachimski  STABLE ISOTOPES IN NEOTHEROPOD TEETH FROM THE KEM KEM BEDS, NORTH AFRICA: INSIGHTS IN THE PALEOEENVIRONMENT AND PALEOBIOLOGY OF LARGE PREDATORY DINOSAURS

B47  J. A. Frederickson, R. Cifelli, M. H. Engel  THEROPOD ECOLOGY OF THE MIDDLE CRETACEOUS: DIET AND HABITAT PREFERENCE IN SMALL TO MEDIUM-SIZE PREDATORS FROM THE UPPERMOST CEDAR MOUNTAIN FORMATION OF UTAH, U.S.A.

B48  R. Takasaki, T. Tanaka, Y. Kobayashi  RELATIONSHIPS OF DIET AND GASTROLITH SHAPE, USING LAYER CHICKS: IMPLICATION FOR DEINOCEIRUS DIET

B49  T. Hanai, T. Tsuihiji  DESCRIPTION OF TOOTH REPLACEMENT PATTERNS IN A JUVENILE TARBOSAURUS BATAAR (THEROPODA, TYRANNOSAURIDAE) USING CT-SCAN DATA

B50  M. J. Powers, P. J. Currie  A NEW INTERPRETATION OF THE PROATLAS ARTICULATION IN TYRANNOSAURID ATLAS-AXIS COMPLEXES

B51  T. Chinzorig, Y. Kobayashi, M. Saneyoshi, K. Tsogtbaatar, Z. Badamkhatan, T. Ryuji  MULTITAXIC BONEBED OF TWO NEW ORNITHOMIMIDS (THEROPODA, ORNITHOMIMOSAURIA) FROM THE UPPER CRETACEOUS BAYANSHIREE FORMATION OF SOUTHEASTERN GOBI DESERT, MONGOLIA


B53  R. K. Hunt-Foster, J. I. Kirkland  EVALUATING THE ENIGMATIC EARLY CRETACEOUS ORNITHOMIMOSAUR RECORD IN NORTH AMERICA

B54  K. Kubo, Y. Kobayashi  KINEMATIC FUNCTION OF ARCTOMETATARSUS OF ORNITHOMIMOSAURS AND THEIR CURSORIAL ADAPTATION

B55  M. M. Rhodes, P. J. Currie, G. F. Funston  THEROPOD PELVIC MUSCULATURE AND THE TRANSITION TO KNEE-DRIVEN LOCOMOTION

B56  U. Lefèvre, A. Cau, D. Hu, P. Godfroy  PRIMITIVE FEATHER ARRANGEMENT ALONG THE HINDWING OF A NEW JURASSIC PARAVIAN FROM CHINA

B57  S. E. Jasinski, R. M. Sullivan, P. Dodson  THE LAST OF THE NORTH AMERICAN DROMAEOSAURIDS (THEROPODA: DROMAEOSAURIDAE), BASED ON A NEW MAASTRICHTIAN SPECIMEN FROM NEW MEXICO
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B58</td>
<td>BAYESIAN INFERENCE OF PARAVIAN PHYLOGENY WITH THE THEROPOD WORKING GROUP DATASET</td>
<td>R. Pei, S. Brusatte, M. Pittman, A. H. Turner, M. A. Norell</td>
</tr>
<tr>
<td>B59</td>
<td>IT'S ALL IN THE WRIST... OR IS IT: THE USE OF AERODYNAMIC MODELLING TO UNRAVEL THE ORIGINS OF AVIAN FLIGHT</td>
<td>S. Peters, K. Sheppard, D. Rival, M. Habib, T. Dececchi</td>
</tr>
<tr>
<td>B60</td>
<td>CLAW FUNCTIONAL MORPHOLOGY OF DEINONYCHUS ANTIRRHOPUS AND OTHER THEROPODS</td>
<td>S. Ascarí</td>
</tr>
<tr>
<td>B61</td>
<td>GENES FROM A STONE: USING BIOINFORMATICS TO UNCOVER THE GENETIC DRIVERS FOR LIMB DIVERSITY AMONG NON-AVIAN THEROPOD DINOSAURS</td>
<td>T. Dececchi, L. Jackson, P. Mabee</td>
</tr>
<tr>
<td>B62</td>
<td>ANALYSIS OF ROBUSTICITY IN THEROPOD FORLIMBS USING GEOMETRIC MORPHOMETRICS TO INDICATE PREY SIZE PREFERENCE</td>
<td>S. Gage, S. H. Burch</td>
</tr>
<tr>
<td>B63</td>
<td>HISTOLOGICAL STRUCTURE OF THE EXOSKELETON OF ATELEASPIS, RETICULASPIS AND ESCUMINASPIS (OSTEOSTRACI, AGNATHA): PRELIMINARY ANALYSIS OF DATA</td>
<td>O. B. Afanassieva</td>
</tr>
<tr>
<td>B64</td>
<td>NEW MATERIAL OF AN UNUSUAL TETRAPODOMORPH FISH FROM THE MIDDLE DEVONIAN OF CENTRAL AUSTRALIA</td>
<td>B. Choo, J. Long, B. King, G. Young</td>
</tr>
<tr>
<td>B66</td>
<td>PIONEERING DISCOVERY OF FISH-BEARING ROCKS OF EARLY DEVONIAN (EARLY LATE EMIAN) AGE IN THE PARANÁ BASIN, SOUTHERN BRAZIL</td>
<td>M. Richter, E. Bosetti</td>
</tr>
<tr>
<td>B68</td>
<td>AN ENIGMATIC SCALE-LESS ACTINOPTERYGIAN FROM THE UPPER MISSISSIPPIAN BEAR GULCH LIMESTONE OF MONTANA, USA</td>
<td>A. E. Jacob, R. Lund, E. D. Grogan</td>
</tr>
<tr>
<td>B69</td>
<td>DESCRIPTION OF A NEW LOWER ACTINOPTERYGIAN TAXON FROM THE LATE MISSISSIPPIAN BLUEFIELD FORMATION OF WEST VIRGINIA, U. S. A.</td>
<td>K. Mickle</td>
</tr>
<tr>
<td>B70</td>
<td>PRELIMINARY APPROACH TOWARD DETERMINING TROPHIC RELATIONSHIPS AMONG ACTINOPTERYGIAN CLADES FROM THE WESTERN INTERIOR SEAWAY</td>
<td>A. N. Michels, L. E. Wilson</td>
</tr>
<tr>
<td>B71</td>
<td>FURTHER DESCRIPTION OF APATEODUS BUSSENI, A LIZARDFISH (TELEOSTEI, AULOPIFORMES) FROM THE LATE CRETACEOUS, SMOKY HILL MEMBER, NIOBRARA CHALK (EARLY CAMPANIAN), KANSAS, USA</td>
<td>M. A. Bair, M. G. Newbrey</td>
</tr>
<tr>
<td>B72</td>
<td>A DESCRIPTION OF A SECOND SPECIMEN OF URENCHELYS ABDITUS FROM THE SMOKY HILL CHALK MEMBER OF THE NIOBRARA FORMATION (UPPER CRETACEOUS: SANTONIAN) OF KANSAS WITH NEW CHARACTERS FOR THE SPECIES</td>
<td>C. Fielitz, K. J. Super, M. Everhart</td>
</tr>
<tr>
<td>B73</td>
<td>A NEW SPECIES AND BODY FORM OF THE LATE CRETACEOUS 'BLUNT-SNOUTED' BONY FISH, THRYPTODUS (ACTINOPTERYGII: TSELFATIIFORMES)</td>
<td>K. Shimada</td>
</tr>
<tr>
<td>B74</td>
<td>AN ONTOGENETIC AND BIOMETRIC DATA FOR ICHTHYODECTIDAE: SMALLEST RECORDED INSTANCE OF XIPHACTINUS AUDAX (TELEOSTEI: ICHTHYODECTIFORMES)</td>
<td>K. J. Super, J. L. King</td>
</tr>
<tr>
<td>B75</td>
<td>NEW GENERA AND SPECIES OF FOSSIL MARINE AMI OID FISHES (ACTINOPTERYGII, HOLOSTEI) FROM THE LATE CRETACEOUS AGOU LT LOCALITY IN SOUTHEASTERN MOROCCO</td>
<td>M. V. Wilson, A. M. Murray, T. C. Grande</td>
</tr>
<tr>
<td>B77</td>
<td>A MOSTLY COMPLETE BOWFIN (AMIIDAE: AMIA SP.) FROM THE COAL CREEK MEMBER OF THE EOCENE KISHENEHN FORMATION, NORTHWESTERN MONTANA</td>
<td>J. Gardner, M. V. Wilson</td>
</tr>
<tr>
<td>B78</td>
<td>A PECULIAR FISH JAW WITH MOLARIFORM TEETH FROM THE EARLY EOCENE OF TADKESHWAR MINE, INDIA HIGHLIGHTS DIVERSITY AND EVOLUTION OF EARLY GYMNODONT TETRAODONTIFORMS</td>
<td>T. Smith, K. E. Bemis, J. C. Tyler, W. E. Bemis, K. Kumar, R. S. Rana</td>
</tr>
</tbody>
</table>
T. Prikryl, G. Carnevale  THE EARLIEST SKELETAL RECORD FOR THE ORDER BATRACHOIDIFORMES (TELEOSTEI, PERCOMORPHA) - AN OLIGOCENE TOADFISH FROM PARATETHYS SEDIMENTS OF MORAVIA, CZECH REPUBLIC

G. Chen, M. Chang  A NEW GENUS AND SPECIES OF ELLIMMICHTHYIFORMES (CLUPEOMORPHA) FROM THE OLIGOCENE OF SOUTH CHINA

M. K. Macias, M. A. Roeder AN EARLY MIOCENE MOBULID LOCALITY FROM THE FRANK R. BOWERMAN LANDFILL, IRVINE, CALIFORNIA: THE IMPORTANCE OF MITIGATION PALEONTOLOGY AND ITS IMPLICATIONS FOR MOBULID PALEOBIOGEOGRAPHY

J. R. Pérez-Marín, K. Moreno, S. N. Nielsen A SERRANID FISH (ACTINOPTERYGIII, PERCIFORMES) FROM THE EARLY MIOCENE OF THE PROVINCE OF ARAUCO, CHILE


J. Van Dijk, M. Bazzi, Ž. Žigaite, N. E. Campione ENVIRONMENTAL DRIVERS OF LAMNIFORM SHARK EVOLUTION FROM THE LATE CRETACEOUS TO EARLY PALEOGENE

B. P. Kear, M. Bazzi, L. Wretman, N. E. Campione GIANT LAMNIFORM SHARKS FROM THE LATE APTIAN AUSTRALIAN TETHYS

M. Bazzi, E. Einarsson, M. Newbrey, N. E. Campione, B. P. Kear, M. Siversson A LARGE SQUALICORAX (CHONDRICTHYES: LAMNIFORMES) FROM THE LATE CRETACEOUS OF SWEDEN AND THE ASSOCIATION OF SHARKS AND MOSASAURS


J. Lilja, M. Bazzi, N. E. Campione, B. Kear, H. Blom, P. E. Ahlberg DENTAL MORPHOLOGY AND TAXONOMY OF MEGATOOTHED SHARKS: A MORPHOMETRIC APPROACH

J. I. Kirkland, D. D. DeBlieux, R. Hunt-Foster, M. C. Hayden MEDIAL MESOZOIC PALEONTOLOGICAL RESOURCE INVENTORY AND MONITORING OF BUREAU OF LAND MANAGEMENT (BLM) LANDS IN THE BLUE HILLS AREA, EASTERN UTAH: DOCUMENTING PALEONTOLOGICAL RESOURCES THAT HAVE BEEN LOVED TO DEATH

A. Millhouse, H. Little DEVELOPING GUIDELINES TO INCREASE DATA ACCESSIBILITY AND INTEROPERABILITY FOR VERTEBRATE FOSSILS

J. E. Peterson, M. L. Krippner, S. R. Clawson COMPARISONS OF FIDELITY IN THE DIGITIZATION AND 3D PRINTING OF VERTEBRATE FOSSILS FOR OUTREACH, EDUCATION, AND RESEARCH

THURSDAY, AUGUST 24, 2017
POSTER SESSION II
(CONTINUED)

MACLEOD A1-A4 AND PRE-FUNCTION
Preparators’ Poster Session

B. Borkovic, R. S. Nagesan, J. Sanchez 3D PHOTOGRAMMETRY MODELLING - THREE CASE STUDIES IN VERTEBRATE PALEONTOLOGY

J. Sanchez, B. Borkovic, C. Scott RIVERS AND RECOVERY - MITIGATIVE PALEONTOLOGY AS A RESULT OF FLOODING IN SOUTHERN ALBERTA
T. J. Kerr, K. Patrick, M. T. Clementz, L. Vietti  NO FOSSILS WERE HARMED DURING THE TRAINING OF THIS PREPARATOR: USING 3D MODELS TO TEACH PROPER PREPARATION TECHNIQUES

A. A. Kilmury, C. M. Brown, C. Carbone, M. Mitchell  COLLECTION AND PREPARATION OF A SUB-ADULT PROSAUROLOPHUS (ORNITHISCHIA: HADROSAURIDAE) FROM THE BEARPAW FORMATION (LATE CAMPANIAN) NEAR LETHBRIDGE, ALBERTA, AN EXAMPLE OF EXPEDITED LARGE-SCALE EXCAVATION IN AN INDUSTRIAL SITE

E. K. Frampton, D. N. Spivak, D. B. Brinkman  CONSULTING PALEONTOLOGY IN ALBERTA: PROCESS, METHODS AND RESULTS OF HISTORICAL RESOURCE IMPACT ASSESSMENTS FOR INDUSTRY.

A. C. Henrici, L. J. Church, N. Wuertehe, J. Leacock, G. E. Anderson  A METHOD FOR MAKING FOSSIL VERTEBRATE SUPPORT CRADLES FROM AN EPOXY CLAY COMPOUND

L. T. Yann  COMPARISON OF DIFFERENT STORE BOUGHT AND HOMEMADE CONTACT PAPERS USED TO STABILIZE JACKETED FOSSILS WITH POTENTIAL BIOLOGICAL MATERIAL

M. Foy, B. L. Beatty, M. C. Mihlbachler  MOLD AND CAST FIDELITY AND DATA LOSS IN DENTAL MICROWEAR TEXTURE ANALYSIS

R. Anemone, J. Crowell  THREE DIMENSIONAL VIRTUAL RECONSTRUCTION OF A CORYPHODON MAXILLA FROM THE EOCENE OF WYOMING

M. B. Andrade, N. Galvez  A QUESTION OF TIME IN TEMNOSPONDYL EVOLUTION AND THE SURVIVAL OF CAPITOSAURIA THROUGH THE PERMO-TRIASSIC EXTINCTION EVENT

FRIDAY MORNING, AUGUST 25, 2017
TECHNICAL SESSION X
TELUS CONVENTION CENTRE, MACLEOD C
MODERATORS: Adam Pritchard and Michael Habib


8:15  R. Irmis, R. Schoch  A NEW SMALL-BODIED REPTILE FROM THE MIDDLE TRIASSIC OF GERMANY DOCUMENTS THE CURSORIAL TO AQUATIC EVOLUTIONARY TRANSITION IN A CLADE OF EARLY ARCHOSAURIFORMS

8:30  A. C. Pritchard, B. S. Bhullar, J. A. Gauthier  A TINY, EARLY PAN-ARCHOSAUR FROM THE UPPER TRIASSIC OF CONNECTICUT AND THE DIVERSITY OF THE EARLY SAURIAN FEEDING APPARATUS

8:45  S. Singh, A. Elsler, T. Stubbs, M. J. Benton  RED IN TOOTH AND JAW: MANDIBULAR MORPHOLOGY REVEALS POSSIBLE INTRINSIC Pressures ON ARCHOSAUROMORPH TROPHIC EVOLUTION THROUGH THE EARLY MESOZOIC

9:00  M. C. Langer, J. Ramezani, S. Dias-Da-Silva, S. Cabreira, F. Pretto, M. Bronzati, J. Marsola, R. Müller, C. Pacheco, L. Roberto-Da-Silva  NEW DINOSAUROMORPHS AND RADIOISOTOPIC AGES FROM THE LATE TRIASSIC SANTA MARIA AND CATURRITA FORMATIONS, SOUTH BRAZIL


9:30  M. Habib, D. Hone, F. Therrien  EVALUATION OF FLIGHT CHARACTERISTICS OF CANADIAN AZHDARCHID PTEROSAUR MATERIAL REVEALS UNIQUE FUNCTIONAL MORPHOLOGY AND HINTS AT HIDDEN AZHDARCHID TAXONOMIC AND ECOLOGICAL DIVERSITY

9:45  N. Carroll, A. A. Farke, S. Chai, A. Oei  A NEW AZHDARCHID PTEROSAUR FROM THE KAIPIROWITS FORMATION (LATE CAMPANIAN) OF SOUTHERN UTAH, USA

10:00 BREAK


10:30  S. Drymala, S. J. Nesbitt, R. Irmis, L. Zanno  NEW CARNIAN TAXON FROM NORTH CAROLINA (USA) CLARIFIES EARLY CROCODYLOMORPH ANATOMY AND ALLOWS FOR EXPANDED CHARACTER SAMPLING IN THE CLADE
A NEW MIDDLE JURASSIC METRIORHYNCHID AND ITS IMPLICATIONS FOR MACROPREDATORY ORIGINS AND EVOLUTION

HOW MANY SKULLS DOES IT TAKE TO MAKE A CROC? THE FOSSIL RECORD OF MESOZOIC MARINE CROCODILES IS BIASED BY FOSSIL COMPLETENESS.

PRESERVATION OF ENDOGENOUS COLLAGEN I IN A MARINE CROCODILE, THORACOSAURUS NEOCESARIENSIS

THE OLDEST CROCODYLIA? A NEW EUSUCHIAN FROM THE LATE CRETACEOUS (CENOMANIAN) OF PORTUGAL

A NEW COMPREHENSIVE PHYLOGENETIC ANALYSIS OF ALLIGATOROIDEA (CROCODYLOMORPHA, CROCODYLIA) AND ITS BIOGEOGRAPHIC AND PALEOECOLOGIC IMPLICATIONS

NEW INFORMATION ON TOMISTOMA PETROLICA YEH, 1958

EOCENE PACHYNOLOPHINAE (PERISSODACTYLA, PALAEOTHERIIDAE) FROM CHINA AND ITS PALEOBIOGEOGRAPHIC IMPLICATIONS

EVIDENCE FOR ROSSTRAL ELONGATION IN LATE MIDDLE EOCENE BOTHIODONTINES (ANTHRACOTHERIIDAE: ARTIODACTYLA) IN NORTH AMERICA

BOVID TOOTH MINERALIZATION AND BAYESIAN METHODS FOR RECONSTRUCTING PALEOSEASONALITY

BISON FROM THE TULE SPRINGS LOCAL FAUNA, SOUTHERN NEVADA: IMPLICATIONS FOR THE DIVERSITY AND BIOGEOGRAPHY OF LATE PLEISTOCENE BISON IN SOUTHWESTERN NORTH AMERICA

THE ECOLOGY AND EVOLUTION OF BODY MASS OF NORTH AMERICAN UNGULATES IN RELATION TO ENVIRONMENTAL CHANGE

ASSESSING THE PALEO-SPECIES-AREA RELATIONSHIP WITH NEOGENE FOSSIL MAMMALS FROM NORTH AMERICA

ARE BONES ENOUGH? USING GENOMIC EVIDENCE TO ASSESS HOOFED MAMMAL CRANIAL APPENDAGE HOMOLOGY

CHALLENGING THE TAPIR STATUS QUO – FORELIMB VARIATION INDEPENDENT OF BODY MASS ACROSS TIME AND SPACE IN THE GENUS TAPIRUS (PERISSODACTYLA: TAPIRIDAE)

LATITUDINAL EFFECTS ON THE DISTRIBUTION AND DIVERSITY OF FOSSIL MARINE MAMMALS

MORPHOLOGIC AND ISOTOPIC EVIDENCE OF THE DEVELOPMENTAL HISTORY OF AUDITORY BULLAE IN DORUDON ATROX AND ZYGORHIZA KOCHII (ORDER CETACEA, FAMILY BASILOSURIDAE)

HOW TO MAKE A WHALE: FIRST COMPLETE DEVELOPMENTAL SEQUENCE OF THE SKULL OF THE HUMPBACK WHALE AND ITS IMPLICATIONS FOR THE EVOLUTION OF MYSTICETES

NEW DISCOVERIES OF XENOROPHIDAE FROM THE Oligocene of the Carolinas: Insights into the Evolution of Feeding Morphology, Encephalization, and Locomotion of the Earliest Dolphins (Odontoceti)

A NEW KENTRIODONTID (ODONTOCETI) FROM THE PACIFIC NORTHWEST SHEDS NEW LIGHT ON THE TEMPORAL AND GEOGRAPHIC RANGE OF THE ENIGMATIC DOLPHIN FAMILY

TOWARDS A BETTER RESOLUTION ON THE PHYLOGENY OF PANDELPHINA (CETACEA: ODONTOCETI): DEFINITION OF NEW MORPHOLOGICAL CHARACTERS
11:45  R. S. Paterson, N. Rybczynski, H. C. Maddin, N. Kohno  THE EVOLUTION OF PINNIPEDS FROM A TERRESTRIAL ANCESTOR: THE POSSIBILITY OF PARALLEL EVOLUTION WITHIN A MONOPHYLETIC FRAMEWORK

12:00  L. Dewaele, O. Lambert, C. De Muizon, S. Louwye  NEW MATERIAL OF AUSTRALOPOCA (CARNIVORA, PHOCIDAE) FROM THE LATE MIocene OF PERU SUGGESTS SEXUAL DIMORPHISM IN THE SMALLEST, EARLY-BRANCHING MONACHINE SEAL

FRIDAY MORNING, AUGUST 25, 2017
TECHNICAL SESSION XII
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Ilaria Paparella and Alexander Hastings

8:00  J. A. Herrera-Flores, M. J. Benton, T. L. Stubbs  EARLY EVOLUTION AND MORPHOLOGICAL DIVERSIFICATION OF MESOZOIC SQUAMATES

8:15  M. Campbell Mekarski, M. W. Caldwell  THE POLYPHYLY OF MOSASAURS: RESULTS FROM AN EXPANSIVE PYTHONOMORPH PHYLOGENY AND IMPLICATIONS FOR MULTIPLE MARINE RADIATIONS AMONG CRETACEOUS SQUAMATES


8:45  I. Paparella, T. Konishi, M. W. Caldwell  HOMOLOGIES OF THE Iliac PROCESSES IN MOSASAURIDS AND NEW INSIGHTS IN THE PLEIOPELVIC–HYDROPELVIC TRANSITION


9:30  H. Yi  ESTIMATING AGILITY OF THE FOSSIL SNAKE DINILYSIA PATAGONICA (REPTILIA: SQUAMATA), USING THE SEMICIRCULAR CANALS AS AN ECOMORPHIC PROXY IN SQUAMATES

9:45  H. Zaher, J. A. Wilson, D. Mohabey  A NEW SPECIMEN OF THE NEST PREDATOR SANAJEH INDICUS (SERPENTES) SUGGESTS A MORE BASAL POSITION WITHIN SNAKE PHYLOGENY

10:00  BREAK


10:30  N. Mongiardino Koch, J. A. Gauthier  MOLECULAR PHYLOGENETIC SIGNAL IS INSUFFICIENT TO CONFIDENTLY RESOLVE THE SQUAMATE BACKBONE TOPOLOGY

10:45  A. Watanabe, J. A. Maisano, J. Müller, A. Herrel, A. Goswami  LARGE-SCALE MORPHOMETRIC ANALYSIS REVEALS PATTERNS OF CRANIAL SHAPE EVOLUTION ACROSS SQUAMATES

11:00  K. M. Thorn, M. S. Lee, M. Hutchinson, M. Archer  PHYLOGENY OF THE EGERNIA GROUP SKINKS: COMBINING MORPHOLOGICAL AND MOLECULAR DATA TO DECIPHER THE ORIGINS OF AUSTRALIA’S BLUETONGUED LIZARDS

11:15  S. J. ElShafie  EARLIEST EVIDENCE OF TAIL REGENERATION IN A FOSSIL SQUAMATE

11:30  A. Hastings, A. C. Dooley  CENOZOIC MARINE REPTILES OF CENTRAL VIRGINIA: EVIDENCE FROM THE EARLY EOCENE AND MIOCENE AT THE CARMEL CHURCH QUARRY FOSSIL LOCALITY

11:45  A. J. Lichtig, S. G. Lucas, H. Klein, D. Lovelace  TRIASSIC TURTLE TRACKS AND THE ORIGIN OF TURTLES

12:00  M. Rabi, D. B. Brinkman  SOFTSHELL TURTLES BREAK DOLLO’S LAW: PHYLOGENETIC EVIDENCE FOR THE REVERSAL OF PERIPHERAL ELEMENTS IN THE SHELL OF THE INDIAN FLAPSHHELL TURTLE
FRIDAY AFTERNOON, AUGUST 25, 2017
TECHNICAL SESSION XIII
TELUS CONVENTION CENTRE, MACLEOD C
MODERATORS: Angelica Torices and Michael Pittman

1:45  F. M. Smithwick, R. Nicholls, I. Cuthill, J. Vinther  COUNTERSHADING AND STRIPES IN SINOSAUROPTERYX REVEAL HETEROGENEOUS HABITATS IN THE JEHOL BIOTA

2:00  P. J. Makovicky, S. Apesteguía, F. Gianechini  A NEW, ALMOST COMPLETE SPECIMEN OF ALNASHETRI CERROPOLICIENSIS IMPACTS OUR UNDERSTANDING OF ALVAREZSAUROID EVOLUTION


2:30  G. F. Funston, P. J. Currie, C. Tsogtbataar  A NEW OVIRAPTORID (DINOSAURIA: THEROPODA) PROVIDES A RARE GLIMPSE INTO SOCIAL BEHAVIOUR IN DINOSAURS


3:00  W. L. Parsons, K. M. Parsons  A PARTIAL EGG OF DEINONYCHUS ANTIRHOPUS CONTAINING EMBRYONIC BONES, FROM THE UNIT VI CHANNEL STRATUM OF THE EARLY CRETACEOUS CLOVERLY FORMATION OF CENTRAL MONTANA


3:30  S. Hartman, M. Mortimer, W. Wahl, D. Lomax, D. Lovelace  NEW INFORMATION ON A PARAVIAN THEROPOD FROM THE MORRISON FORMATION

3:45  X. Xu  SKELETAL OSSIFICATION AND FUSION PATTERNS IN JEHOL DROMEOSAURID THEROPODS, AND IMPLICATIONS FOR IDENTIFICATION OF POSTNATAL ONTOGENETIC STAGES AND GROWTH STRATEGIES

4:00  M. Pittman, X. Xu, P. J. Currie, L. Xing, Q. Meng, J. Lü, D. Hu, C. Yu  MOSAIC EVOLUTION IN AN ASYMMETRICALLY FEATHERED TROODONTID DINOSAUR WITH TRANSITIONAL FEATURES

FRIDAY AFTERNOON, AUGUST 25, 2017
TECHNICAL SESSION XIV
TELUS CONVENTION CENTRE, MACLEOD D
MODERATORS: Ashley Reynolds and Ashley Poust

1:45  A. W. Poust  OSTEOHISTOLOGY OF PALEOGENE CARNIVORES REVEALS EXTENDED TIME TO MATURITY IN BOTH CARNIVORAMORPHA AND CREODONTIA

2:00  K. Veitschegger  LIFE HISTORY EVOLUTION IN CAVE BEARS – ELUCIDATING THE BIOLOGY OF AN EXTINCT MEGAFANAUL ELEMENT


3:00  B. Figueirido, A. Pérez-Ramos, B. Van Valkenburgh  CORTICAL VS TRABECULAR BONE AND THE SPECIALIZED KILLING BITE OF SABER-TOOTHS


3:30  J. Biewer, J. Parham, J. Velez Juarbe  ELEVEN NEW SKULLS FROM THE LOS ANGELES BASIN, SOUTHERN CALIFORNIA, SHED LIGHT ON THE TIMING OF MAJOR WALRUS RADIATIONS

49
3:45 A. Houssaye  INNER BONE ADAPTATION IN SEMI-AQUATIC AMNIOTES - QUANTITATIVE 3D ANALYSIS OF LONG BONE SHAFT MICROANATOMICAL AND GEOMETRICAL FEATURES IN MUSTELIDS AND PINNIPEDS AND COMPARISONS WITH FOSSIL SEMI-AQUATIC AND AQUATIC AMNIOTES

4:00 L. M. Lynch  SKELETAL LIMB MORPHOLOGY OF MARTES AMERICANA, A SMALL MUSTELID CARNIVORAN, VARIES PREDICTABLY BY BIOME BUT NOT IN CORRELATION WITH BODY SIZE

FRIDAY AFTERNOON, AUGUST 25, 2017
TECHNICAL SESSION XV
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Lucas Weaver and Alexandria Brannick

1:45 J. A. Miyamae, B. S. Bhullar  COMPARATIVE MORPHOLOGY OF THE TRIGEMINAL CANAL AND A SCENARIO FOR THE EVOLUTION OF FACIAL MUSCULATURE IN MAMMALS

2:00 J. K. Spear, E. Hoffman, B. S. Bhullar  THE RECONSTRUCTED BRAINCASE OF ADELOBASILEUS AND IMPLICATIONS FOR EARLY MAMMALLAFORM DIVERSITY


2:30 D. T. Polet, J. M. Theodor, J. E. Bertram  RECONSTRUCTING EXTINCT MAMMAL LOCOMOTION THROUGH OPTIMAL CONTROL THEORY

2:45 L. N. Weaver, M. Whitney, G. P. Wilson  OSTEOHISTOLOGY OF THREE MULTITUBERCULATE FEMORA FROM NORTHEASTERN MONTANA SUGGESTS VARIATION IN GROWTH RATE NEAR THE K-PG BOUNDARY

3:00 A. L. Brannick, G. P. Wilson  EXPLORING THE EVOLUTION OF DUROPHYAGY IN STAGODONTID METATHERIANS USING RELATIVE MANDIBULAR BENDING STRENGTH

3:15 R. K. Engelman, J. J. Flynn, A. R. Wyss, D. A. Croft  A NEW, EARLY RELATIVE OF SABER-TOOTHED SPARASSODONT (METATHERIA: SPARASSODONTA; THYLACOSMILIDAE) FROM THE EARLY OLIGOCENE CACHAPOAL FAUNA, ANDEAN MAIN RANGE, CENTRAL CHILE

3:30 R. M. Beck, M. L. Taglioretti  THE IMPACT OF INCORPORATING TEMPORAL INFORMATION INTO PHYLOGENETIC ANALYSES: RESOLVING THE EVOLUTIONARY AFFINITIES OF "SPARASSOCYNIDS" (DIDELPHIMORPHIA; MARSUPIALIA)

3:45 T. J. Halliday, G. V. Prasad, A. Goswami  THE GLOBAL AFFINITIES OF CRETACEOUS INDIAN FAUNAS

4:00 J. D. Yeakel, C. P. Kempes, S. Redner  THE DYNAMICS OF STARVATION AND RECOVERY: A MECHANISTIC MODEL FOR A WITHIN-LINEAGE DRIVER OF COPE'S RULE

FRIDAY, AUGUST 25, 2017
POSTER SESSION III
TELUS CONVENTION CENTRE, MACLEOD A1-A4 AND PRE-FUNCTION
Authors must be present from 4:15 - 6:15 p.m. Friday, August 25

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


B3 A. K. Huttenlocker, J. D. Pardo, D. S. Berman, A. C. Henrici  NEW DISSOROPHOIDS FROM THE CARBONIFEROUS-PERMIAN OF COLORADO, USA

B4 J. Fröbisch, C. F. Kammerer, H. Sues  FIRST RECORD OF THE CHINESE CAPTORHINID GANSURHINUS IN THE LATE PERMIAN OF GERMANY

A. Bradley, S. J. Nesbitt  A POSSIBLE NEW SPECIMEN OF THE OWENETIID RUHUHUARIA REISZI FROM THE MANDA BEDS OF SOUTHERN TANZANIA (MIDDLE TRIASSIC) AND ITS IMPLICATIONS FOR SMALL REPTILES DURING THE TRIASSIC PERIOD RECOVERY

L. McCormack, W. Parker  A NEW OCCURRENCE OF THE PHYTOSAUR (ARCHOSAURIFORMES, PHYTOSAURIA) PRAVUSUCHUS HORTUS FROM THE MONITOR BUTTE MEMBER (UPPER TRIASSIC; CHINLE FORMATION) OF UTAH

W. L. Holloway  A COMPARATIVE ANALYSIS OF RECONSTRUCTED CRANIAL MYOLOGY OF PHYTOSAURIA


Y. Delgado, A. B. Heckert, J. R. Foster  NEW OCCURRENCES OF UPPER TRIASSIC (ADAMANIAN—REVUELTIAN?) FOSSILS FROM THE LOWER CHINLE GROUP NEAR WINGATE MESA, SOUTHEASTERN UTAH: EXPANDING UTAH’S LATE TRIASSIC FOSSIL RECORD


M. R. Stocker, H. Sues, S. E. Jasinski  UNITING THE UPPER TRIASSIC DEPOSITS OF CENTRAL AND NORTH PANGEA: THE FIRST RECORD OF PARASUCHUS FROM THE NEWARK SUPERGROUP AND ITS IMPLICATIONS FOR BIOCHRONOLOGY

A. M. Laing, A. H. Turner, C. Kernan, S. Werning, N. Smith, R. Irmis, S. J. Nesbitt  A NEW SHUVOSAURID TAXON (ARCHOSAURIA, PSEUDOSUCHIA) FROM THE LATE TRIASSIC HAYDEN QUARRY OF NEW MEXICO, USA

E. J. Lessner, W. Parker, S. J. Nesbitt, A. Marsh, R. Irmis, B. Mueller  RECONSTRUCTING LATE TRIASSIC VERTEBRATE FAUNAS FROM THE UPPER TRIASSIC DOCKUM GROUP OF TEXAS USING APOMORPHY-BASED IDENTIFICATIONS

A. R. Milner, R. J. Gay, R. Irmis, F. Overkamp, M. Santella  NEW SOUTHWESTERN UTAH PALEONTOLOGICAL LOCALITY FROM THE LOWER JURASSIC KAYENTA FORMATION REVEALS A DIVERSE VERTEBRATE FAUNA BASED ON TEETH AND TRACKS

S. C. Maidment, T. J. Raven  A NEW PHYLOGENY OF STEGOSAURIA (DINOSAURIA: ORNITHISCHIA)

T. J. Raven, S. C. Maidment  THE ANATOMY, TAXONOMY AND SYSTEMATIC POSITION OF THE ENIGMATIC THYREOPHORAN DINOSAUR PARANTHODON AFRICANUS

H. E. Rivera-Sylva, E. Frey, W. Stinnesbeck  THE ANKYLOSURA FROM MEXICO

M. Clemens, D. Winkler, M. Polcyn, L. L. Jacobs  A NODOSAURID (ORNITHISCHIA, ANKYLOSURA) FROM THE LOWER EAGLE FORD GROUP OF NORTH CENTRAL TEXAS

J. C. Mallon, D. M. Henderson, C. M. McDonough, W. J. Loughrey  THE RIDDLE OF THE UPSIDE-DOWN ANKYLOSARS

D. M. Henderson, C. M. Brown  TAPHONOMY OF THE FORT MCMURRAY NODOSAUR – A THREE-DIMENSIONALLY PRESERVED ARMoured DINOSAUR WITH IN-SITU SKIN, SCALES AND OSTEODERMS

J. Vinther, C. M. Brown, D. Henderson, I. Fletcher, R. Summons  3D CAMOUFLAGE IN A LARGE-BODIED, HEAVILY ARMORED ANKYLOSAUR REVEALS NON-UNIFORMITARIAN MESOZOIC PREDATOR-PREY DYNAMICS

L. Jia, H. You, R. Wang, J. Yi, S. Xu  A NEW ANKYLOSAURID DINOSAUR FROM THE EARLY LATE CRETACEOUS OF ZUOYUN, SHANXI PROVINCE, CHINA

C. T. Freer, V. Arbour, N. E. Campione  ON THE POTENTIAL COEVOLUTION OF ANKYLOSARS AND THEROPODS

K. Tanoue, T. Ohashi, R. Matsumoto, S. Fujiwara, S. Kawabe, Y. Urano, Q. Zhao, H. You  DISTRIBUTION OF KERATIONOUS BEAKS IN BASAL CERATOPSIAL FROM THE LOWER CRETACEOUS IN CHINA

D. Anduza  TOWARD DISCOVERING THE ADAPTIVE FUNCTIONS OF CERATOPSISAN ROSTRALS

E. M. Morschhauser, F. Varriale  THE LABIAL (HORIZONTAL) SHELF IS A SYNAPOMORPHY OF NEOCERATOPSIS (DINOSAURIA: ORNITHISCHIA)
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B28</td>
<td>C. Bullar, M. J. Benton, Q. Zhao, M. J. Ryan</td>
<td>CERATOPSIAN BRAINCASE MORPHOLOGY AND PALAEOEUROLOGY THROUGH ONTOGENY</td>
</tr>
<tr>
<td>B29</td>
<td>M. J. Ryan, D. C. Evans</td>
<td>A NEW CENTROSARIN CERATOPSID FROM THE UPPER UNIT OF THE OLDMAN FORMATION (LATE CRETACEOUS: CAMPANIAN) OF SOUTHERN ALBERTA, CANADA</td>
</tr>
<tr>
<td>B30</td>
<td>A. Prieto-Marquez, P. J. Makovicky, S. H. Joshi</td>
<td>ONTOGENY AND EVOLUTION OF THE FRILL OF NEOCERATOPSIAN DINOSAURS</td>
</tr>
<tr>
<td>B31</td>
<td>A. J. Brown, N. Smith</td>
<td>OSTEOSTHISTOLOGICAL EVALUATION OF THE SQUAMOSAL IN TRICERATOPS HORMIDUS</td>
</tr>
<tr>
<td>B32</td>
<td>A. Knapp, R. Knell, A. A. Farke, D. Hone</td>
<td>SPECIES RECOGNITION IN THE MESOZOIC? TESTING HYPOTHESES OF ELABORATE STRUCTURES IN CERATOPSIAN DINOSAURS</td>
</tr>
<tr>
<td>B33</td>
<td>J. R. Burgo, D. J. Varricchio</td>
<td>SEM AND THIN SECTION ANALYSIS OF PREVIOUSLY UNIDENTIFIED EGGSHELL FROM EGG MOUNTAIN</td>
</tr>
<tr>
<td>B34</td>
<td>E. Przybyszewski, P. D. Germano, D. J. Varricchio, D. Trexler</td>
<td>FILLING A DATA GAP WITH ANALYSIS OF FOSSIL EGGSHELL FROM THE LATE CRETACEOUS UPPER TWO MEDICINE FORMATION OF MONTANA</td>
</tr>
<tr>
<td>B35</td>
<td>D. K. Zelenitsky, K. Tanaka, J. T. Voris, F. Therrien</td>
<td>TAXONOMIC TRENDS IN FOSSIL EGG REMAINS DURING THE LATE CRETACEOUS OF ALBERTA, CANADA</td>
</tr>
<tr>
<td>B37</td>
<td>H. Lee, Y. Lee, Y. Kobayashi, K. Tsogtbaatar</td>
<td>A PRELIMINARY REPORT OF UNUSUAL DINOSAUR NESTING GROUND, EASTERN GOBI, MONGOLIA</td>
</tr>
<tr>
<td>B38</td>
<td>A. Pérez-García, F. Gascó, F. Ortega</td>
<td>A SINGULAR UPPERMOST CRETACEOUS DINOSAUR NESTING AREA IN THE VILLALBA DE LA SIERRA FORMATION (GUADALAJARA, CENTRAL SPAIN)</td>
</tr>
<tr>
<td>B39</td>
<td>D. J. Varricchio, M. Kundrát, J. Hogan</td>
<td>A TIME TO BROOD: INCUBATION PERIOD IN THE THEROPOD DINOSAUR TROODON FORMOSUS</td>
</tr>
<tr>
<td>B40</td>
<td>M. J. Vavrek</td>
<td>CONTINENTAL BREAKUP AND THE EVOLUTION OF BODY SIZE IN DINOSAURS</td>
</tr>
<tr>
<td>B41</td>
<td>A. A. Chiarenza, P. Mannion, P. A. Allison, D. J. Lunt, P. J. Markwick</td>
<td>ABSENCE OF EVIDENCE IS NOT EVIDENCE OF ABSENCE: THE EFFECT OF SPATIAL FOSSIL BIAS IN PALEODIVERSITY ESTIMATES IN THE LATEST CRETACEOUS OF NORTH AMERICA</td>
</tr>
<tr>
<td>B42</td>
<td>D. E. Malinzak, M. C. Lamanna</td>
<td>NEW TERMINAL CRETACEOUS (LATE MAASTRICHTIAN) NON-AVIAN DINOSAUR DISCOVERIES FROM SOUTH DAKOTA: IMPLICATIONS FOR LARAMIDIAN PALEOECOLOGY AND PALEOBIOGEOGRAPHY</td>
</tr>
<tr>
<td>B44</td>
<td>D. A. Eberth, F. Fanti</td>
<td>COMPOSITE STRATIGRAPHY AND SEDIMENTOLOGIC EVOLUTION OF THE DINOSAUR-RICH BARUNGOYOT-NEMEGT SUCCESION (UPPER CRETACEOUS), NEMEGT BASIN, SOUTHERN MONGOLIA</td>
</tr>
<tr>
<td>B45</td>
<td>D. DeBlieux, J. I. Kirkland, M. Hayden, R. Hunt-Foster</td>
<td>SIGNIFICANT MESOZOIC VERTEBRATE FOSSIL LOCALITIES DISCOVERED DURING PALEONTOLOGICAL RESOURCE INVENTORY AND MONITORING ON BUREAU OF LAND MANAGEMENT LAND IN THE WESTERN BLANDING BASIN, SOUTHEASTERN UTAH</td>
</tr>
<tr>
<td>B46</td>
<td>E. A. Smith, E. U. Petersen, M. A. Loewen, J. I. Kirkland</td>
<td>MANGANESE OXIDE PERMINERALIZATION IN DINOSAUR BONE AT THE JURASSIC-CRETACEOUS BOUNDARY OF CENTRAL UTAH</td>
</tr>
<tr>
<td>B47</td>
<td>S. K. Swenson, K. Chin, K. Curry Rogers, R. R. Rogers</td>
<td>TAPHONOMY OF DINOSAUR COPROLITES FROM THE UPPER CRETACEOUS (CAMPANIAN) TWO MEDICINE FORMATION, NORTHWESTERN MONTANA</td>
</tr>
<tr>
<td>B48</td>
<td>M. L. Winitich, P. E. Olsen</td>
<td>IMPLICATIONS OF AN ANALYSIS OF DEEP PES TRACES AND MANUS IMPRESSIONS FOR THE SUPPOSED ATREIPUS-GRALLATOR ICHNOGENERIC PLEXUS: AN APOMORPHY-BASED APPROACH</td>
</tr>
<tr>
<td>B49</td>
<td>P. E. dePolo, S. Brusatte, T. Challands, D. Foffa, M. Wilkinson, D. Ross</td>
<td>NEW TRACK SITES ON ISLE OF SKYE (SCOTLAND, UK) INDICATE POSSIBLE ENVIRONMENTAL PARTITIONING AMONG DINOSAURS</td>
</tr>
</tbody>
</table>
S. Kozu, A. Sardsud, D. Saesaengseerung, C. Pothichaiya, S. Agematsu, K. Sashida  DINOSAUR FOOTPRINT ASSEMBLAGE AND ITS GREGARIOUS BEHAVIOR FROM THE LOWER CRETACEOUS KHOK KRUA'T FORMATION, KHORAT GROUP, NORTHEASTERN THAILAND

P. Citton, M. Romano, M. Avanzini  THE AXONY CONCEPT IN TETRAPOD ICHNOLOGY

M. F. Jones, N. A. Thurber, K. Beard  NEW SPECIMENS OF CHIROMYOIDES (MAMMALIA: PLESIADAPIDAE) FROM THE LATE PALEOCENE OF WYOMING ILLUMINATE RELATIONSHIPS AMONG NORTH AMERICAN AND EUROPEAN SPECIES OF THE GENUS

B. W. Rodwell, K. A. Nichols, T. M. Bown  USING A HIGH RESOLUTION 3-D PROFILOMETER TO EXAMINE DIETARY NICHE SPACE OCCUPATION AMONG THE EARLY EOCENE PRIMATES CANTIUS, TEILHARDINA, AND TETONUS


K. E. Samonds, L. R. Godfrey, J. W. Baldwin, M. R. Sutherland, J. Kamilar, K. Alloffser  MID-TERTIARY CLIMATE CHANGE, EXTINCTION AND SPECIATION IN MADAGASCAR, AND THEIR BEARING ON THE EVOLUTION OF MADAGASCAR'S LEMURS

N. J. Stevens, K. Whitman, E. M. Roberts, M. R. Borths, P. M. O'Connor  MAMMALIAN FAUNAL COMPOSITION ACROSS LOCALITIES IN THE LATE OLIGOCENE NSUNGWE FORMATION, RUKWA RIFT BASIN, TANZANIA

S. Mattingly, K. Beard, P. Coster, M. Salem, Y. Chaimanee, J. Jaeger  A NEW PARAPITHECINE (PRIMATES: ANTHROPOIDEA) FROM THE EARLY OLIGOCENE OF CENTRAL LIBYA

E. R. Miller, G. F. Gunnell, H. Sallam, J. Habersetzer, E. Seiffert  TOWARDS RESOLVING THE MORPHOLOGY AND TAXONOMY OF PARAPITHECUS FRAASI (PARAPITHECIDAE, ANTHROPOIDEA) FROM THE FAYUM DEPRESSION, EGYPT

I. Arney, S. Cote, D. L. Fox, J. Kingston, L. MacLatchy, F. Manthi, E. Mbua, K. McNulty, J. Nengo  STABLE ISOTOPIC EVIDENCE OF PALEOENVIRONMENTS AT EARLY MIOCENE LOCALITIES FROM TINDERET, KENYA

D. Hock  VERTEBRATE SPECIES RICHNESS CHANGE FROM THE LATE MIOCENE TO EARLY PLIOCENE OF LOTHAGAM, TURKANA BASIN, KENYA


J. P. Wiersma, H. L. Hilbert-Wolf, C. J. Placzek, P. H. Dirks, E. M. Roberts  INVESTIGATING 234U/238U ACTIVITY RATIOS AND U UPTAKE IN VERTEBRATE MICROFOSSIL TEETH FROM THE RISING STAR CAVE (CRADLE OF HUMANKIND, SOUTH AFRICA) TO RECONSTRUCT PHREATIC WATER TABLE FLUCTUATIONS ASSOCIATED WITH PLEISTOCENE CLIMATE CHANGE IN SOUTHERN AFRICA

L. Fostowicz-Frelík, J. Slowiak, J. Meng  ENAMEL MICROSTRUCTURE IN LAGOMORPHA (MAMMALIA: GLIRES): IN THE SEARCH OF FUNCTIONAL AND PHYLOGENETIC IMPLICATIONS

M. Lang, O. C. Bertrand, M. T. Silcox  SCALING PATTERN IN RODENT PARAFOLOCCI: IMPACTS OF LOCOMOTION AND ACTIVITY PATTERN

R. Bhagat, O. C. Bertrand, M. T. Silcox  LOCOMOTOR BEHAVIOUR RECONSTRUCTION FROM THE SEMICIRCULAR CANALS OF EARLY FOSSIL RODENTS: INSIGHTS INTO MAJOR EVOLUTIONARY TRANSITIONS FROM THE INNER EAR

D. K. Anderson  NEW GENUS OF SCIURAVID (SCIURAVIDAE, RODENTIA) FROM THE LATEST EARLY EOCENE (EARLIEST BRIDGERIAN) OF RAVEN RIDGE, UTAH AND THE EARLY MIDDLE EOCENE (MIDDLE BRIDGERIAN) OF GREEN RIVER BASIN, WYOMING

S. S. Hopkins  EVOLUTIONARY HISTORY OF RARE MIOCENE APLODONTIID RODENTS FROM ASIA AND THE HISTORY OF BIOGEOGRAPHY IN THE APLODONTIIDAE

MORPHOLOGICAL CHANGES OF THE MOLAR OCCLUSAL SURFACE THROUGH DENTAL WEAR IN NAKALIMYS LAVOCATI (RHIZOMYIDAE, RODENTIA) FROM THE NAKALI FORMATION (EARLY LATE MIocene) OF NORTHERN KENYA

EXPERIMENTAL APPROACHES TO ASSESS THE EFFECT OF FOOD TEXTURE AND GRAIN COMPOSITION OF ABRASIVES IN THE CAUSE OF DENTAL MICROWEAR

FIRST PROGONOMYS FROM THE LATE MIocene OF THE ARABIAN PLATE

IDENTIFICATION OF SCIURIDS (RODENTIA:SCIURIDAE) FROM TWO LATE CENOZOIC LOCALITIES IN THE EASTERN U.S.

HISTORICAL BIOGEOGRAPHY OF INSULAR WHITE-FOOTED MICE (PEROMYSCUS LEUCOPUS) IN NORTHEASTERN NORTH AMERICA

PATTERNS OF DENTAL VARIATION WITHIN VOLES OF THE GENUS ARBORIMUS

MIDDLE PLEISTOCENE "LARGER SIZED" HAMSTER FOSSILS FROM LOCALITY 2 OF SHANYANGZHAI IN QINHUANGDAO AREA, CHINA, AND DISCUSSION ON THE VALIDITY OF CRICETINUS VARIANS (RODENTIA: CRICETIDAE)

EXCEPTIONAL ARVICOLINE DENTITIONS FROM FROMAN FERRY (PLEISTOCENE) AND LITTLE DELL DAM (PLEISTOCENE)

ARVICOLINE RODENTS FROM PERSISTENCE CAVE, WIND CAVE NATIONAL PARK, SD

REASSESSING THE BIOCHRONOLOGY OF KENNEWICK ROADCUT (WASHINGTON, USA) USING ARVICOLINE RODENTS.

SMALL MAMMALS AND A REFINED AGE ESTIMATE OF THE GRAY FOSSIL SITE IN TENNESSEE

MOLES (TALPIDAE) FROM THE GRAY FOSSIL SITE, TN

ENAMEL DIFFERENTIATION IN SORICID MOLARS

BIOSTRATIGRAPHY OF MARINE MAMMALS (CETACEA AND SIRENIA) FROM COASTAL SECTIONS OF THE EOCENE SAMLAT FORMATION SOUTH OF AD DAKHLA, MOROCCAN SAHARA

ANALYSIS OF FOSSIL ENVIRONMENTS REVEALS BIASES IN THE FOSSIL RECORD OF MYSTICETE PRESERVATION.

SPECIES DELIMITATIONS WITHIN THE EXTINCT RIVER DOLPHIN GENUS PARAPONTOPORIA BASED ON QUANTITATIVE ANALYSIS OF THE PERIOTIC BONES

A NEW MARINE VERTEBRATE ASSEMBLAGE FROM THE WILSON GROVE FORMATION AT BLOOMFIELD QUARRY (LATE MIocene), SONOMA COUNTY, CALIFORNIA

CONSIDERING FEASIBILITY OF U-Pb DATING APPLIED TO CENOZOIC ISOLATED TOOTH FOSSIL

ESCAPE BEHAVIOR IN LITOPTERNS (MERIDUNGULATA; MAMMALIA) ACROSS THE GREAT AMERICAN BIOTIC INTERCHANGE

LOCOMOTION IN STHENURINE KANGAROOS: DID THEY USE THEIR ARMS?

THE OVERLAP INDEX, A TOOL TO QUANTIFY THE AMOUNT OF ANATOMICAL OVERLAP AMONG GROUPS OF INCOMPLETE TERMINAL TAXA IN PHYLOGENETIC ANALYSES

COMPARISON OF MAXIMUM Parsimony AND BAYESIAN APPROACHES TO EARLY PERISSODACTYLS (MAMMALIA) PHYLOGENY

EARLIEST EOCENE PERISSODACTYLS (MAMMALIA, LAURASIATHERIA) OF EUROPE: REVIEW AND NEW DISCOVERIES
<table>
<thead>
<tr>
<th>Page</th>
<th>Author(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B93</td>
<td>L. K. Stroik, K. Townsend</td>
<td>CHANGES IN RHINOCEROTOID BODY MASS DIVERSITY ACROSS THE EOCENE OF NORTH AMERICA</td>
</tr>
<tr>
<td>B94</td>
<td>O. Sanisidro, J. Cantalapiedra</td>
<td>DIVERSIFICATION PATTERNS IN THE FAMILY RHINOCEROTIDAE</td>
</tr>
<tr>
<td>B95</td>
<td>R. Schellhorn</td>
<td>TWO REMARKABLE CARPAL BONE POSITIONS IN PROSANTORHINUS GERMANICUS (MAMMALIA: RHINOCEROTIDAE)</td>
</tr>
<tr>
<td>B96</td>
<td>N. Handa</td>
<td>A REVIEW OF JAPANESE PLEISTOCENE RHINOCEROTIDAE (MAMMALIA, PERISSODACTYLA) AND PALEOBIOGEOGRAPHICAL SIGNIFICANCE</td>
</tr>
<tr>
<td>B98</td>
<td>R. L. Bernor, B. Sun</td>
<td>AN ENIGMATIC LINEAGE OF CHINESE HIPPARION, BARYHIPPARION</td>
</tr>
<tr>
<td>B99</td>
<td>Y. Li, T. Deng, H. Hua, Y. Li, Y. Zhang</td>
<td>ASSESSMENT OF DENTAL ONTOGENY IN LATE MIOCENE HIPPARIONINES FROM THE LAMAGOU FAUNA OF FUGU, SHAANXI PROVINCE, CHINA</td>
</tr>
<tr>
<td>B100</td>
<td>H. M. Flora, E. B. Davis</td>
<td>INFERRING BEHAVIORAL AND SOCIAL ORGANIZATION IN FOSSIL ANTILOCAPRIDAE</td>
</tr>
<tr>
<td>B101</td>
<td>A. Hall, S. Cote</td>
<td>RUMINANT DENTAL WEAR SUPPORTS THE EXISTENCE OF HETEROGENEOUS ENVIRONMENTS IN THE EAST AFRICAN EARLY MIOCENE</td>
</tr>
<tr>
<td>B102</td>
<td>D. R. Prothero</td>
<td>REVIEW OF THE PLIOCENE SPECIES OF THE FLAT-HEADED PECCARY PLATYGNUS (MAMMALIA: ARTIODACTYLA) FROM NORTH AMERICA</td>
</tr>
<tr>
<td>B103</td>
<td>J. Campos Medina, K. Moreno</td>
<td>FIRST RECORD OF THE ICHNOSPESIES LAMAICHNUM GUANICOE AFF. (ARAMAYO AND BIANCO 1987) FROM CHILE</td>
</tr>
<tr>
<td>B104</td>
<td>D. Rubilar-Rogers, C. Gutstein</td>
<td>SYNTHESIS ON THE VERTEBRATE PALEONTOLOGICAL HERITAGE IN CHILE</td>
</tr>
<tr>
<td>B105</td>
<td>R. M. Laker, M. Clementz</td>
<td>USING NON-DESTRUCTIVE RAMAN SPECTROSCOPY AS A TOOL TO INVESTIGATE SUB-FOSSIL AND YOUNG FOSSIL DIAGENESIS</td>
</tr>
</tbody>
</table>

**Saturday Morning, August 26, 2017**

**Technical Session XVI**

**Telus Convention Centre, MacLeod C**

**Moderators:** Victoria Arbour and Femke Holwerda

8:00  | M. G. Baron  | A NOVEL HYPOTHESIS OF DINOSAUR INTERRELATIONSHIPS |
8:30  | F. M. Holwerda | PHYLOGENETIC RELATIONSHIPS OF PATAGOSAURUS FARIASI AND EVOLUTIONARY IMPLICATIONS FOR EARLY-MIDDLE JURASSIC SAUROPODS |
8:45  | A. J. Moore, X. Xu, J. M. Clark | ANATOMY AND SYSTEMATICS OF KLAMELISAUROUS GOBIENSIS, A MAMENCHISURID SAUROPOD FROM THE MIDDLE-LATE JURASSIC SHISHUGOU FORMATION OF CHINA |
9:00  | K. Waskow  | GROWTH RATES OF GIANTS: HISTOLOGICAL EVIDENCE FOR SIZE RELATED DIFFERENCES IN GROWTH MODELS BETWEEN NORMAL SIZED DIPLODOCIDS AND A UNIQUE ASSEMBLAGE OF DWARFED LATE JURASSIC DIPLODOCIDS FROM THE MOTHER’S DAY QUARRY (MORRISON FORMATION, MONTANA, USA) |
9:15  | P. V. Ullmann, K. J. Lacovara | APPENDICULAR OSTEOLOGY OF DREADNOUGHTUS SCHRANI, A GIANT TITANOSAURIAN (SAUROPODA, TITANOSAURIA) FROM THE LATE CRETACEOUS OF PATAGONIA, ARGENTINA |
9:30  | S. Bansal, M. Habib | CONSTRUCTING THE COLOSSUS: NEW TITANOSAUR MATERIAL FROM NEW MEXICO REVEALS NOVEL MECHANISMS FOR ACCOMMODATING GIGANTISM AND NECK ELEVATION |
9:45  | D. J. Button, L. E. Zanno | REACHING CONVERGENCE: BIOMECHANICAL ANALYSIS OF THE FEEDING APPARATUS INDICATES CONSERVED FUNCTIONAL PATHWAYS IN THE EVOLUTION OF Saurischian Herbivory |
10:00  **BREAK**

10:15  **A. Nabavizadeh**  REAPPRAISAL OF ORNITHISCHIAN DINOSAUR JAW MUSCULATURE: IMPLICATIONS FOR FEEDING MECHANISMS AND PREVIOUSLY PROPOSED "CHEEK" ANATOMY

10:30  **P. Godfried, S. M. Sinitsa, M. E. McNamara, A. C. Cincotta, D. Dhouailly, S. Reshetova**  INTEGUMENTARY STRUCTURES IN *KULINDADROMEUS ZABAikalicus*, A BASAL NEORNITHISCHIAN DINOSAUR FROM THE JURASSIC OF SIBERIA

10:45  **P. Bell, M. Herne, E. Smith**  NEW ORNITHOPODS (DINOSAURIA) FROM THE LOWER CRETACEOUS GRIMAN CREEK FORMATION (ALBIAN) AT LIGHTNING RIDGE, NSW, AUSTRALIA

11:00  **J. P. Wilson, M. J. Ryan, D. C. Evans**  A NEW CENTROSARINE CERATOPSID FROM THE UPPER CRETACEOUS TWO MEDICINE FORMATION OF MONTANA AND THE EVOLUTION OF THE ‘STYRACOSAUR’ DINOSAURS

11:15  **D. W. Fowler, E. A. Freedman Fowler**  THE OLDEST "CHASMOSAURUS"? A NEW SKULL FROM THE JUDITH RIVER FORMATION OF MONTANA


11:45  **V. Arbour, D. C. Evans**  AN EXCEPTIONALLY PRESERVED SKELETON OF A NEW ANKYLOSARINE DINOSAUR FROM THE JUDITH RIVER FORMATION OF MONTANA, USA

12:00  **C. M. Brown**  NEW EXCEPTIONALLY PRESERVED NODOSAUR (ORNITHISCHIA: ANKYLOSARIDAE) EXHIBITS EXTENSIVE EPIDERMAL SCALES, *IN SITU* OSTEODERMS, AND THEIR ASSOCIATED KERATINOUS SHEATHS, AND REVEALS STRONG POSITIVE ALLOMETRY IN THE BOTH BONY OSTEODERMS AND HORN SHEATHS

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**SATURDAY MORNING, AUGUST 26, 2017**

**TECHNICAL SESSION XVII**

**TELUS CONVENTION CENTRE, MACLEOD D**

**MODERATORS:** Melissa Pardi and Win McLaughlin

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8:00  **J. J. Caledo, S. S. Hopkins**  X-RAY MICRO-COMPUTED TOMOGRAPHY OF PREMOLARS INFORMS THE TAXONOMY OF THE MYLAGAULIDAE (MAMMALIA: RODENTIA)

8:15  **R. W. Burroughs**  ASSESSING THE PALEOBIOGEOGRAPHIC HISTORY OF *LEMmiscUS CURTATUS* (MAMMALIA, RODENTIA): SINGLE SPECIES OR SPECIES COMPLEX?

8:30  **J. Cramb, G. Price, S. Hocknull**  THE IMPORTANCE OF RATS: MURID RODENT FOSSILS FROM AUSTRALIA AND WHY THEY MATTER

8:45  **A. M. Jukar**  LATE QUATERNARY EXTINCTIONS IN SOUTH ASIA

9:00  **B. W. Schubert, J. C. Chatters, J. Arroyo-Cabrales, H. McDonald, C. Widga, D. Rissolo, A. Nava Blank, A. Alvarez Enriquez, R. Chavez Arce, P. Luna Erreguerena**  UNDERWATER CAVES OF THE YUCATÁN PENINSULA REVEAL UNEXPECTED RECORDS OF LATE PLEISTOCENE FAUNAL INTERCHANGE


9:30  **M. I. Pardi, F. Smith**  USING FOSSIL FRAGMENTS AND NEW ALLOMETRIES TO REVEAL THE BODY SIZE COMPOSITION AND COMMUNITY ECOLOGY OF LATE QUATERNARY CANIDAE COMMUNITIES IN TEXAS

9:45  **T. S. Cammidge, C. I. Barron-Ortiz, C. N. Jass**  MORPHOLOGICAL CORRELATES OF INTERBREEDING IN PLEISTOCENE MAMMOTHS (*MAMMUTHUS*) FROM ALBERTA

10:00  **BREAK**

10:15  **S. M. Smith, C. J. Sprain, G. P. Wilson, W. A. Clemens, P. Renne**  EARLY MAMMALIAN FAUNAL RECOVERY FOLLOWING THE CRETACEOUS-PALEOGENE MASS EXTINCTION EVENT IN MCGUIRE CREEK, MONTANA, USA

10:30  **I. Fendley, Y. Park, P. A. Holroyd**  CLIMATE CHANGE IN THE EOCENE WASATCH FORMATION OF SOUTHWESTERN WYOMING

10:45  **J. R. Moore, W. Aht**  TAPHONOMIC AND ECOLOGICAL SHIFTS ACROSS THE EOCENE-OLIGOCENE BOUNDARY IN SOUTH DAKOTA AND NEBRASKA
11:00 G. J. Retallack, J. X. Samuels  
PALEOSOL-BASED NICHES OF OLIGOCENE MAMMALS FROM THE JOHN DAY FORMATION OF OREGON

11:15 Z. Li, Y. Li, Y. Liu  
NANPOPING FAUNA OF THE LANZHOU BASIN AND ITS ENVIRONMENTAL SIGNIFICANCE

11:30 W. N. McLaughlin  
EVOLUTION OF NEOGENE KYRGYZ MAMMALIAN FAUNAS IN THE LIGHT OF TECTONIC AND CLIMATIC CHANGE

11:45 T. Deng, X. Wang, Q. Li, F. Wu, S. Wang, S. Hou  
PALEO-ALTIMETRY RECONSTRUCTIONS OF THE TIBETAN PLATEAU BASED ON VERTEBRATE FOSSILS

12:00 A. Novello, C. A. Strömberg, B. F. Jacobs, K. P. McNulty, L. A. Michel, K. T. Uno  
THE ROLE OF GRASSES IN EAST AFRICAN VEGETATION DURING THE PAST 30 MILLION YEARS: NEW RESULTS AND PERSPECTIVES FROM PLANT SILICA (PHYTOLITH) ANALYSES

SATURDAY MORNING, AUGUST 26, 2017
TECHNICAL SESSION XVIII
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Kenneth Angielczyk and Katrina Jones

8:00 S. C. Jasinoski, F. Abdala, J. A. Hopson  
CRANIAL ONTOGENETIC PATTERNS IN PERMO-TRIASSIC BASAL CYNODONTS FROM SOUTHERN AFRICA

8:15 J. Botha-Brink, M. Bento Soares, A. Guillermo Martinelli  
GROWTH PATTERNS OF LATE TRIASSIC PROZOSTRODONTIAN CYNODONTS FROM BRAZIL

8:30 S. J. Norris, A. M. Paredes, N. Immega, D. Temple, R. T. Bakker  
RELEASE OF OSTEOCYTES AND LAMELLAE THROUGH CHEMICAL DISSOLUTION REVEALS THE INTRICATE, ANASTOMOSING CIRCUMFERENTIAL PATTERN OF BLOOD VESSELS IN DIMETRODON NEURAL SPINES

8:45 J. L. Green, K. D. Angielczyk, S. Beld, D. C. Fisher  
HIERARCHICALLY-ORGANIZED GROWTH INCREMENTS IN THE TUSK ORTHODENTIN OF DICYNODONT S (THERAPSIDA, DICYNODONTIA)

9:00 M. Whitney, C. A. Sidor  
TAPHONOMIC INDICATORS OF TOOTH ATTACHMENT IN FOSSIL SYNAPSIDS WITH IMPLICATIONS FOR ORAL FOOD PROCESSING IN TAPINOCEPHALIDS

PATTERNS OF TOOTH REPLACEMENT IN THE EARLY DICYNODONT ABAJUDON AND THE ORIGIN OF MULTIPLE TOOTH ROWS IN ENDOTHIODON

BURNETIAMORPHS DID IT FIRST: CRANIAL ADORNMENT AND RATES OF SPECIATION IN A PERMIAN LINEAGE OF THERAPSIDS

9:45 D. P. Groenewald, B. S. Rubidge, M. O. Day  
EVIDENCE FOR FAUNAL PROVINCIALISM IN THE PERMIAN BEAUFORT GROUP (KAROO SUPERGROUP) OF SOUTH AFRICA.

10:00 BREAK

10:15 B. S. Rubidge, M. O. Day, K. Anglecukz, S. Jirah  
MIDDLE PERMIAN DICYNODONT (THERAPSIDA, ANOMODONTIA) STRATIGRAPHIC RANGES IN THE MAIN KAROO BASIN – IMPLICATIONS FOR CONTINENTAL BIOSTRATIGRAPHY

A NEW CISTECEPHALID DICYNODONT FROM THE UPPER MADUMABISA MUDSTONE FORMATION (UPPER PERMIAN), LUANGWA BASIN, ZAMBIA: ENDOCRANIAL ANATOMY AND BIOGEOGRAPHIC IMPLICATIONS

ELEVATED SEMICIRCULAR CANAL ECCENTRICITY IN DICYNODONT THERAPSIDS (SYNAPSIDA): IMPLICATIONS FOR BEHAVIOR?

11:00 E. Hoffman, T. B. Rowe  
POSTCRANIAL ANATOMY OF KAYENTATHERIUM WELLESI: SWIMMING ADAPTATIONS IN A MAMMALIAMORPH FROM THE EARLY JURASSIC

11:15 K. Jones, L. Benitez, K. D. Anglecukz, S. E. Pierce  
A QUANTITATIVE APPROACH TO SYNAPSID VERTEBRAL EVOLUTION AND IMPLICATIONS FOR MAMMALIAN ECOLOGICAL DIVERSIFICATION

RETENTION OF CRANIAL FUNCTION ACROSS THE CYNODONT-MAMMALIAN TRANSITION

57
<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:45</td>
<td>J. Benoit, V. Fernandez, P. R. Manger, B. S. Ruhidge</td>
<td>EVIDENCE FOR ENDOOTHERMY IN BASAL THERAPSIDA REVEALED BY SYNCHROTRON SCANNING</td>
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<td>12:00</td>
<td>M. Marzola, O. Mateus, J. Milán, L. B. Clemmensen</td>
<td>SYNrift sedimentary deposition and vertebrate fossil abundance: The tetrapod record from Greenland</td>
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<td>1:45</td>
<td>P. M. Barrett, T. J. Broderick, K. Chapelle, J. N. Choiniere, S. Edwards, D. Munyikwa, P. Viglietti, M. Zondo</td>
<td>NEW INFORMATION ON THE UPPER KAROO VERTEBRATE FAUNAS OF THE LAKE KARIBA REGION, ZIMBABWE</td>
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<td>2:00</td>
<td>G. Niedzwiedzki, T. Sulej</td>
<td>A norian coelophysoid theropod from Fleming Fjord formation, East Greenland</td>
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<td>2:15</td>
<td>N. Smith, W. R. Hammer, P. Makovicky</td>
<td>NEW INFORMATION ON THE THEROPOD DINOSAUR CRYOLOPHOSAURUS ELLIOTTI FROM THE EARLY JURASSIC HANSON FORMATION OF THE CENTRAL TRANSANTARCTIC MOUNTAINS</td>
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<td>2:30</td>
<td>M. Fabbri, C. Dal Sasso, S. Maganuco, S. Zouhri, D. Martill, N. Ibrahim</td>
<td>Bone microstructure and heterochrony shape fish-eating habits in spinosaurs</td>
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<td>2:45</td>
<td>A. Samathi, P. Chanthasit</td>
<td>TWO NEW BASAL MEGARAPTORA (DINOSAURIA: THEROPODA) FROM THE EARLY CRETACEOUS OF THAILAND WITH COMMENT ON THE PHYLOGENETIC POSITION OF SIAMOTYRANNUS AND DATANGLON</td>
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<td>3:00</td>
<td>R. J. Bykowski</td>
<td>The evolution of carnivorous dinosaurs in response to changing prey body size</td>
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<td>3:15</td>
<td>D. D. Cashmore, R. A. Close, R. J. Butler</td>
<td>Completeness of the global non-avian theropod fossil record: disentangling biological, geological and sampling biases</td>
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<td>3:30</td>
<td>R. J. Brocklehurst</td>
<td>VERTEBRAL MORPHOMETRICS AND LUNG STRUCTURE IN NON-AVIAN DINOSAURS</td>
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<td>3:45</td>
<td>A. R. Fiorillo, Y. Kobayashi, P. McCarthy, T. Tanaka, R. S. Tykoski</td>
<td>DINOSAUR ichnoLOGY AND PALEOENVIRONMENTS FROM THE CHIGNIK FORMATION (ANIACKACH NATIONAL MONUMENT, LATE CRETACEOUS, SOUTHWESTERN ALASKA)</td>
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<td>4:00</td>
<td>K. Tanaka, D. Zelenitsky, F. Therrien, Y. Kobayashi</td>
<td>DINOSAUR NESTING AT HIGH-LATITUDE: IMPLICATIONS FROM NEST MATERIAL, NEST STRUCTURES, AND INCUBATION HEAT SOURCES</td>
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**SATURDAY AFTERNOON, AUGUST 26, 2017**

**TECHNICAL SESSION XX**

**TELUS CONVENTION CENTRE, MACLEOD D**

**MODERATORS:** Ornella Bertrand and Abagael West

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>1:45</td>
<td>M. Castiello, M. D. Brazeau</td>
<td>Neurocranial anatomy of two unusual placoderms revealed by computed tomography scanning, and their implications for early gnathostomes evolution</td>
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<td>2:00</td>
<td>S. Brusatte, T. E. Williamson, O. Bertrand, J. Cameron, J. Napoli, S. Shelley</td>
<td>THE BRAINS AND SENSES OF EARLY PLACENTAL MAMMALS: NEW INSIGHT FROM CT AND NT SCANS OF PALEOCENE SPECIMENS FROM NEW MEXICO, USA</td>
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<td>2:15</td>
<td>O. Bertrand, F. Amador-Mughal, M. Lang, M. Silcox</td>
<td>VIRTUAL ENDOCASTS OF EARLY APLONDOTOIDEA AND SCURIDAE: BRAIN EVOLUTION AND LOCOMOTION</td>
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<td>2:45</td>
<td>C. Heck, H. Woodward Ballard</td>
<td>INTRATENDINOUS METAPLASTIC TISSUE IN THE TIBIA OF THE NINE-BANDED ARMADILLO (DASYYPUS NOVEMCINCTUS) AND ITS USE AS A COMPARATIVE MODEL FOR METAPLASTIC TISSUE IN EXTINCT TAXA</td>
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<td>3:00</td>
<td>R. D. MacPhee, G. Slater, S. Presslee, A. Forasiepi, J. I. Bloch, R. S. Feranec, M. Collins</td>
<td>PALEOPROTEOMIC ANALYSIS OF THE RELATIONSHIPS OF QUATERNARY WEST INDIAN FOLIVORANS (PILOSA, XENARTHRA)</td>
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3:15  A. R. West  RESOLVING THE AFFINITIES OF NOTOUNGULATA: CHARACTER SELECTION, TAXON SAMPLING, AND THE INFLUENCE OF ANCIENT MOLECULAR DATA

3:30  A. Goswami, E. Noirault, R. N. Felice, A. Watanabe, A. Fabre, A. Curtis, N. Simmons, D. L. Fox, M. Churchill  DENSE PHENOMIC ANALYSIS OF CRANIAL SHAPE EVOLUTION ACROSS LIVING AND EXTINCT PLACENTAL MAMMALS

3:45  Z. S. Morris, S. E. Pierce, A. Abzhanov  INSIGHTS FROM MORPHOMETRIC ANALYSIS OF ONTOGENETIC AND PHYLOGENETIC CHANGES IN THE SHAPE OF THE CROCODYLIAN SKULL

4:00  P. C. Sereno  THE CENTRAL ROLE OF FUNCTIONAL MODULARITY IN VERTEBRATE EVOLUTION

SATURDAY AFTERNOON, AUGUST 26, 2017
TECHNICAL SESSION XXI
TELUS CONVENTION CENTRE, MACLEOD A
MODERATORS: Judith Pardo-Pérez and Dean Lomax

1:45  R. Motani, D. Jiang, A. Tintori, C. Ji, J. Huang  TESTING IF MESozoic MARINE REPTILES EMERGED BEFORE OR AFTER THE END-PermIAN Mass EXTINCTION

2:00  D. Jiang, R. Motani, A. Tintori, M. Zhou, X. Wang, H. Lu  DIRECT EVIDENCE OF REPTILE PREDATION BY A LARGE MIDDLE TRIASSIC ICHTHYOSAUR FROM XINGYI OF SOUTHWESTERN CHINA

2:15  A. S. Wolniewicz  A REASSESSMENT OF THE CRANIAL ANATOMY OF CYMBOSPONDYLUS AND ITS IMPLICATIONS ON THE TAXONOMY AND PHYLOGENY OF CYMBOSPONDYLIDAE

2:30  J. M. Pardo-Pérez, E. Maxwell, B. P. Kear  ICHTHYOSAUR PALEOPATHOLOGY: DIAGNOSING INJURY AND DISEASE IN EARLY JURASSIC ‘FISH-LIZARDS’

2:45  D. R. Lomax, J. A. Massare  THE TAXONOMIC UTILITY OF HINDFIN MORPHOLOGY IN ICHTHYOSAURUS

3:00  B. C. Moon, M. J. Benton, M. Williams  MORPHOFUNCTIONAL DIVERSITY IN TOARCIAN (EARLY JURASSIC) ICHTHYOSAURS

3:15  M. DeBlois, R. Motani  A QUANTITATIVE METHOD TO RECONSTRUCT THE FLIPPER SOFT TISSUE MARGIN OF PLESIOSAURS AND ICHTHYOSAURS FROM THE FLIPPERS OF EXTANT MARINE TETRAPODS

3:30  U. Witzel, A. Krahl, P. Sander  FINITE ELEMENT HYDRODYNAMIC INVESTIGATION OF SWIMMING BEHAVIOR OF A MIDDLE JURASSIC PLESIOSAUR IN COMPARISON TO RECENT SEA TURTLES

3:45  D. J. Morgan, F. O’Keefe  NEW INSIGHTS INTO THE PHYLOGENY OF THE POLYCOTYLIDAE

4:00  T. Wintrich  THE AMAZING PLESIOSAUR NECK: SUBCENTRAL FORAMINA AND IMPLICATIONS FOR THERMOREGULATION AND DEEP DIVING

SATURDAY, AUGUST 26, 2017
POSTER SESSION IV
TELUS CONVENTION CENTRE, MACLEOD A1-A4 AND PRE-FUNCTION
Authors must be present from 4:15 - 6:15 p.m. Saturday, August 26
Posters must be removed by 6:30 p.m.

Education & Outreach Poster Session


B2  G. J. Bradley, V. Arbour, M. Campbell, A. Torices, H. P. Street, T. Miyashita, S. Blais, W. S. Persons IV  DIG LOCALY, TEACH GLOBALLY: USING MASSIVE OPEN ONLINE COURSES TO MAKE PALAEONTOLOGY EDUCATION ACCESSIBLE WORLDWIDE

B3  M. L. Gold  DRNEUROSAURUS: A BILINGUAL BLOG FOR CHILDREN ABOUT PALEONTOLOGICAL NEWS

B4  R. K. Hunt-Foster  IMAGINE STEM: GIRL SCOUTS IN PALEONTOLOGY

B5  J. Pirlo, C. A. Grant, S. Moran, R. Mussetter, S. Sahlstrom  IDIGFOSSILS: ENGAGING K-12 STUDENTS IN INTEGRATED STEM VIA 3D DIGITIZATION, 3D PRINTING, AND PALEONTOLOGY

B6  G. Santos, T. Lepore  UTILIZING AUGMENTED REALITY FOR INCLUSIVE EXHIBIT DESIGN


B8  S. J. ElShafie  INTEGRATING FILM, THEATER, AND DESIGN APPROACHES WITH PALEONTOLOGICAL PERSPECTIVES TO EXPLAIN SCIENCE
B9  S. Moore, N. Carroll, A. Weikert, C. Hammel, S. Carroll, M. Struble  MAIA MOBILE SCIENCE LAB: USING MATHEMATICAL AND BIOLOGIC CONCEPTS OF GROWTH CURVES TO CONNECT STUDENTS WITH MONTANA'S AGRICULTURAL ECONOMY AND RICH FOSSIL HISTORY

B10  M. R. Borths  TEACHING CORE PHYLOGENETIC SYSTEMATIC CONCEPTS THROUGH PRACTICAL EXPERIENCE BUILDING A HOMININ FAMILY TREE

B11  M. Pittman, X. Xu, A. Cheng  DINOSAUR ECOSYSTEMS, A FREE ONLINE SCIENCE COURSE BY THE UNIVERSITY OF HONG KONG

B12  A. Weil, L. T. Yann, N. J. Czaplewski, K. L. Davies, J. Hargrave, K. Smith, D. J. Frolich, R. Whitten SUCCESSFULLY SUPPORTING MULTIPLE CURRICULA ONSITE AT A SINGLE DINOSAUR LOCALITY

B13  D. J. White, P. A. Holroyd  GLOBAL WARMING AND IMMIGRANTS: LESSONS FROM THE EOCENE

B14  D. J. Urban, J. A. Maier, A. Sadier, K. E. Sears  BUILD-A-BONE SKELETON JIGSAW

B15  K. D. Kavanagh  "BONES -- YOUR INNER ANIMAL," EVOLUTIONARY CONCEPTS TAUGHT TO K-8 STUDENTS BY COMPARATIVE VERTEBRATE ANATOMY STUDENTS

B16  T. Boodhoo, M. Bolortsetseg, B. Munkhbat, T. Yoshikami  THE MOVEABLE DINOSAUR MUSEUM IN MONGOLIA: RESULTS AND CHALLENGES TWO SEASONS IN

B17  M. D. Celeskey, T. Donovan, A. B. Heckert, L. H. Waterworth  FROM BARE BONES TO TRIASSIC PARK: CREATING A LIFE RECONSTRUCTION OF THE AETOSAUR GORGETOSUCHUS WITH A MULTIDISCIPLINARY TEAM OF SCIENTISTS, ARTISTS, AND STUDENTS


B19  A. Hastings  DINOSAURS AND COMIC BOOKS: QUANTITATIVE REVIEW OF PALEONTOLOGICAL ACCURACY AND THE POTENTIAL FOR COMIC BOOKS FOR INFORMAL EDUCATION

B20  T. Ohashi, Y. Kimura, Y. Hasegawa, I. Takahashi, M. Manabe  ACCOMPLISHMENT REPORT: SPECIMEN RESCUE PROJECT WITH THE TSUNAMI RELIEF FUND RAISED IN THE 2011 SVP MEETING, LAS VEGAS

SATURDAY, AUGUST 26, 2017
POSTER SESSION IV
(CONTINUED)

MACLEOD A1-A4 AND PRE-FUNCTION

Regular Session Posters

B21  J. M. Kibii  BRIDGING THE GAPS: A NEW NATIONAL MUSEUMS OF KENYA-PALEONTOLOGICAL APPROACHES TO BRINGING RESEARCHERS, STUDENTS AND GENERAL PUBLIC TOGETHER


B23  L. Fowler, P. A. Holroyd  DENTAL ERUPTION SEQUENCE FOR LIMNOCYONINE HYAENODONTANS (CREODONTA)

B24  M. R. Borths, N. J. Stevens  GIGANTIC HYAINAILOURINE (HYAENODONTA,"CREODONTA") FROM THE EARLY MIOCENE OF KENYA

B25  T. Tsubamoto  DENTAL ANOMALIES FOUND IN LIVING RACCOON DOG (NYCERYEUTES PROCYONOIDES) AND THEIR IMPLICATION TO DENTAL MORPHOLOGY OF EOCENE MAMMALS

B26  A. K. Jones, D. Schreve, C. Carbone  CHANGES OF THE CRANIO-DENTAL MORPHOLOGY OF SPOTTED HYAENA (CROCUTA CROCUTA, ERXLEBEN 1777) IN BRITAIN FROM THE EARLY MIDDLE PLEISTOCENE TO MARINE OXYGEN ISOTOPE STAGE 3

B27  P. Barrett  FIRST REPORTED OCCURRENCE OF LEPTOCYON FROM THE MIOCENE OF OREGON

B28  J. D. Orcutt, C. Vietri  HEMPHPILLIAN CARNIVORANS FROM THE INLAND NORTHWEST

B29  Y. Li, N. Spassov  A NEW SPECIES OF PARAMACHAERODUS (MAMMALIA, CARNIVORA, FELIDAE) FROM THE LATE MIOCENE OF CHINA AND BULGARIA

B30  R. C. Hulbert, S. C. Wallace, J. I. Bloch  OLDEST SMILODONTIN (FELIDAE, MACHAIRODONTINAE) SKULL FROM THE LATE MIOCENE OF NORTH AMERICA
D. Ruiz Ramoni, M. Montellano, A. Rincón  A NEW LOOK AT THE MATERIAL ASSIGNED TO MACHAIRODUS SP. CF. M. COLORADENSIS (HOMOTHERIINI: MACHAIROIDONTINAE) FROM THE LATE HEMPHILLIAN OF GUANAJUATO, MEXICO

C. Grohe, B. Lee, Z. Calamari, J. J. Flynn  RUN CHEETAH RUN: EVIDENCE OF A RECENT SENSORY PERCEPTION SPECIALIZATION FOR HIGH-SPEED HUNTING

G. R. Hurlburt, C. Churcher  SIZE, NOT EVOLUTION OF NEW FUNCTIONS, MOST PARSIEMONIOUSLY EXPLAINS PROLIFERATING CORTEX SHOWN IN AN ENDOCAST OF CIVETTICTIS LEAKEYI, AN EXTINCT LARGE EARLY PLIOCENE VIVERRID (MAMMALIA, CARNIVORA, VIVERRIDAE)

T. M. Kantelis, B. W. Schubert  MORE THAN LENGTH AND WIDTH: A NEW TECHNIQUE FOR DISTINGUISHING BROWN BEARS (URSUS ARCTOS) AND BLACK BEARS (U. AMERICANUS) IN NORTH AMERICA


L. Koper, S. Rahmat, I. Koretsky  ORIGIN AND DISPERSAL OF TRUE SEALS (FAMILY PHOCIDAE) BASED ON RECENT FOSSIL EVIDENCE


C. I. Barron-Ortiz, C. N. Jass, M. S. Bolton  PATTERNS OF EXTIRPATION PRIOR TO THE LAST GLACIAL MAXIMUM IN ALBERTA, CANADA


C. A. Shaw, M. A. Weaver  VERTEBRATE PALEOPATHOLOGICAL COLLECTIONS FROM RANCHO LA BREA AND A CENTURY OF RESEARCH

T. Annoor, D. R. Prothero, V. Syverson  HOW DID LA BREA COLTS GROW UP? A STUDY OF POSTNATAL ALLOMETRIC GROWTH IN THE LIMB BONES OF EQUUS OCCIDENTALIS

T. Htun, D. R. Prothero  POSTNATAL ALLOMETRIC LIMB GROWTH IN JUVENILE CAMELS FROM THE PLEISTOCENE OF RANCHO LA BREA TAR PITS

S. U. Galvez, D. R. Prothero, V. J. Syverson  HOW DID BISON CALVES GROW UP? POSTNATAL LIMB ALLOMETRY IN BISON ANTIQUUS FROM LA BREA TAR PITS

T. Rallings, H. Duran, J. D. Yeakel  MAPPING MAMMALIAN MORPHOLOGICAL TRAITS TO DIETS WITH MACHINE LEARNING
M. A. Madan, D. R. Prothero, V. Syverson  STASIS IN RANCHO LA BREA LITTLE OWLS OVER THE LAST GLACIAL-INTERGLACIAL CYCLE

P. Gillespy, D. R. Prothero, V. J. Syverson  STASIS IN TERATORNS FROM THE LA BREA TAR PITS DURING THE LAST GLACIAL-INTERGLACIAL CYCLE


A. P. McIntosh  GEOMETRIC MORPHOMETRIC ANALYSIS OF THE PEDAL CLAW OF CONFCUISIUSORNIS SANCTUS AND ITS IMPLICATIONS FOR CORRELATION TO ECOLOGICAL BEHAVIOR

D. Hu, L. Gao, X. Xu, L. Hou  A NEW LIAONINGORNIS SPECIMEN FROM THE LOWER CRETACEOUS JEHOl GROUP OF NORTHEASTERN CHINA

D. Simon, D. C. Evans  A SMALL-BODIED FUMICOLLIS-LIKE HESPERORNITHIFORM FROM THE HELL CREEK FORMATION OF MONTANA

T. Tanaka, Y. Kobayashi, T. Tokaryk  EVOLUTION OF BODY MASS IN THE HESPERORNITHIFORMES

L. E. Wilson  SEABIRDS AS ECOLOGICAL INDICATORS IN LATE CRETACEOUS MARINE ENVIRONMENTS

L. G. Buckley, R. T. McCrea, M. G. Lockley  CONGRUENCE BETWEEN TARSOMETATARSUS OSTEOLOGY AND TRACK MORPHOLOGY IN EXTANT SHOREBIRDS, AND IMPLICATIONS FOR CRETACEOUS BIRD TRACK ICHNOTAXONOMY AND PALEODIVERSITY

T. Ohashi  WELL-PRESERVED PELVISES OF PLOTOPTERID BIRDS FROM THE ASHIYA GROUP (LATE OLIGOCENE), NORTHERN KYUSHU, JAPAN

T. Ando  THE LARGEST STERNUM AND THE UNDERWATER FLYING IN PLOTOPTERIDS


D. C. D’Amore, M. Harmon, S. K. Drumheller, J. Testin  QUANTITATIVE HETERODONTY IN CROCODYLIA: ASSESSING FUNDAMENTAL NICHE IN EXTINCT TAXA.

G. Sobral, H. Zaher  DEVELOPMENTAL AND PHYLOGENETIC ORIGINS OF THE LATEROSPHENOID IN CROCODYLIANS

M. M. Johnson, M. T. Young, L. Steel, S. Brusatte  EVOLUTIONARY RELATIONSHIPS AND BIODIVERSITY OF MACHIMOSAURINI (THALATTOSUCHIA, TELEOSAURIDAE)

A. J. Adams, C. A. Brochu  MORPHOLOGY OF THE MIDDLE EOCENE CROCODYLOID ‘CROCODYLUS’ AFFINIS, SYSTEMATICS OF BRIDGER FORMATION CROCODYLOIDS, AND PHYLOGENETIC RELATIONSHIPS NEAR THE ROOT OF CROCODYLIAE

C. F. Geroto  APPLICATION OF BROOKS PARSIMONY ANALYSIS TO REVEAL THE RELATIONSHIP BETWEEN THE AREAS IN MESOEUCROCODYLIA PALEOBIOGEOGRAPHY

R. C. Andrade, M. V. Sena, J. M. Sayão, G. R. Oliveira  MICRONATOMY OF PEPESUCHUS DEISEAE (MESOEUCROCODYLIA, PEIROSAURIDAE) REVEALS A MATURE FEMALE SPECIMEN FROM THE LATE CRETACEOUS OF BRAZIL


A. I. Rego, D. C. Evans  A NEW SPECIES OF NOTOSUCHIAN CROCODYLIFORM FROM THE LATE CRETACEOUS OF MOROCCO


A. P. Cossette, C. A. Brochu  THE RECORD OF DEINOSUCHUS EAST AND WEST OF THE WESTERN INTERIOR SEAWAY.

D. A. Tarailo, D. Hester, C. A. Brochu  OCEANIC DISPERAL RATES WITHIN CROCODYLIA AND THEIR SIGNIFICANCE TO THE DEVELOPMENT OF SALT TOLERANCE IN CROCODYLIDS

R. E. Molnar, G. Price, I. Sobbe  THE ROLE OF LARGE REPTILIAN, ESPECIALLY ZIPHODONT CROCODILIAN, PREDATORS IN AUSTRALIAN PLEISTOCENE TERRESTRIAL TETRAPOD TROPHIC SYSTEMS

A. M. Oliveira, C. C. Geroto  FIRST OCCURRENCE OF A LARGE PLEISTOCENE ALLIGATORIDAE FROM THE CENTRAL BRAZIL
M. G. Lockley, N. A. Matthews, B. H. Breithaupt, K. Cart, G. Gierlinski, R. K. Hunt-Foster  EVIDENCE OF LOCAL NICHE PARTITIONING AMONG EARLY JURASSIC DINOSAURS AT LARGE KAYENTA SANDSTONE TRACKSITES NEAR MOAB, UTAH

Q. Zhang, H. You, T. Wang  A NEARLY COMPLETE SKELETON OF A TRANSITIONAL SAUROPODIFORM DINOSAUR FROM THE EARLY JURASSIC OF LUFENG, YUNNAN PROVINCE, CHINA

Y. Wang, H. You, A. Otero, T. Wang  TAXONOMY OF "GYPOSAURUS" SINENSIS YOUNG, 1941 FROM THE EARLY JURASSIC LUFENG FORMATION OF YUNNAN PROVINCE, SOUTHWESTERN CHINA

CHANGED TO BOARD 105, POSTER SESSION III

S. Hattori, T. Tsuihiji  RECONSTRUCTION OF THE PEDAL MUSCULATURE IN HERRERASAURUS ISCHIGUALASTENIS (DINOSAURIA: THEROPODA) AND ITS IMPLICATIONS IN THE TRANSITION FROM THE ARCHOSAURIAN ANCESTRAL CONDITION

E. Payne  ALLOSAURUS CRANIAL ELEMENTS SUPPORT THE UTILITY OF USING PERIOSTEAL AGING TO ASSESS MATURITY IN ISOLATED THEROPOD CRANIAL ELEMENTS.


T. Brougham, P. Bell  TWO NEW THEROPODS DESCRIBED FROM ASSOCIATED MATERIAL FROM THE LOWER CRETACEOUS GRIMAN CREEK FORMATION OF LIGHTNING RIDGE, NSW, AUSTRALIA

E. D. Johnson-Ransom, P. Makovicky, L. Zanno, K. Shimada  NEW COELUROSAURIAN REMAINS (DINOSAURIA: THEROPODA) FROM THE CEDAR MOUNTAIN FORMATION, UTAH, USA

B. J. Johnson, A. Matthias, J. Sertich  A UNIQUE LATE JURASSIC MICROVERTEBRATE ASSEMBLAGE FROM A DINOSAUR NESTING SITE

J. R. Foster, K. C. Trujillo, K. R. Chamberlain  A PRELIMINARY U-PB ZIRCON AGE FOR THE FRUITA PALEONTOLOGICAL AREA MICROVERTEBRATE LOCALITIES, UPPER JURASSIC MORRISON FORMATION, MESA COUNTY, CO

S. A. Ostrowski, C. R. Noto  HOLD ME CLOSER TINY FOSSIL: A RICH MICROVERTEBRATE FAUNA FROM THE ARLINGTON ARCHOSAUR SITE (WOODBINE FORMATION, CENOMANIAN) OF NORTH-CENTRAL TEXAS

T. C. Wyenberg-Henzler, J. Scott  STRATIGRAPHY, BIOSTRATIGRAPHY AND X-RAY FLUORESCENCE ANALYSIS OF MUDSTONE AND HETEROLITHIC FACIES IN THE DINOSAUR PARK FORMATION, DINOSAUR PROVINCIAL PARK, ALBERTA


J. M. Richard, A. Bercovici, D. Pearson  DID SIZE MATTER FOR SURVIVING THE CRETACEOUS-PALEOGENE MASS EXTINCTION EVENT?

J. Claytor, M. T. Carrano  LANDSCAPE DIVERSITY OF THE UPPER CRETACEOUS JUDITH RIVER FORMATION TRANSCRIPT

T. Beveridge, E. Roberts, J. Ramezani, D. Eberth, R. R. Rogers, S. Bowring  A NEW APPROACH TO CORRELATING VERTEBRATE FAUNAS BY COMBINING HIGH PRECISION U-PB GEOCHRONOLOGY WITH GEOCHEMICAL TEPHROSTRATIGRAPHY: A CASE EXAMPLE FROM THE CAMPANIAN WESTERN INTERIOR BASIN

E. M. Roberts, H. Gardner, C. Placzek, P. M. O’Connor, M. C. Lamanna, J. A. Clarke, S. W. Salisbury, K. Claeson  NEW HIGH-RESOLUTION TAPHONOMIC, GEOCHRONOLOGIC AND PALEOENVIRONMENTAL RECORDS OF LATEST CRETACEOUS BIRD, DINOSAUR AND OTHER VERTEBRATE FAUNAS FROM VEGA ISLAND, ANTARCTICA PENINSULAR

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