1st Annual Southwest Regional Joint DVM&DCB meeting of SICB

California State University at San Bernardino (CSUSB)
Saturday, October 13th, 2012

08:00  REGISTRATION OPENS

09:00  Tomasz Owerkowicz & Stuart Sumida
Welcome and opening remarks

09:10  Stuart Sumida, CSU San Bernardino
The Early Permian Bromacker fossil locality of central Germany – a cradle of basal synapsid lineages?

09:25  Lars Schmitz, The Claremont Colleges
Glossy feathers and nocturnal activity: inference of Microraptor feather colors using a phylogenetic framework

09:40  Andy Farke, Alf Museum of Palaeontology
Morphological disparity, locomotion and limb proportions in ornithischian dinosaurs

09:45  Beth Rega, Western University of Health Sciences
Proliferative pathology of cervical vertebrae in ceratopsian dinosaurs

10:00  Susan Lujan, CSU San Bernardino
Effects of atmospheric oxygen variability on limb bone geometry in Alligator mississippiensis

10:15  Nelson Membreno, CSU San Bernardino
Importance of the calcareous eggshell to normal skeletal development in the American alligator

10:30  COFFEE BREAK

11:00  Devin Jindrich, CSU San Marcos
The LIMB Lab: comparative biomechanics and physiology at CSU San Marcos

11:15  Clint Collins, UC Riverside
Home field advantage: sprint sensitivity to ecologically relevant substrates in lizards

11:20  David Lee, University of Nevada Las Vegas
3D X-ray motion analysis for limb dynamics

11:35  Neil Larson, UC Irvine
How toads minimize torques to stick their landings
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tr>
<td>11:40</td>
<td><strong>Anthony Hessel, Northern Arizona University</strong></td>
<td>Studies into the jumping mechanisms of the Plethodontidae</td>
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<td>11:55</td>
<td><strong>Emily Abbott, UC Irvine</strong></td>
<td>Timing of muscle recruitment alters series elastic function during lengthening contractions</td>
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<td>12:00</td>
<td><strong>Manny Azizi, UC Irvine</strong></td>
<td>Anticipatory motor patterns limit muscle stretch during landing in toads</td>
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<td>12:15</td>
<td><strong>Kathleen Foster, UC Riverside</strong></td>
<td>Changes in neuromuscular control with incline and perch diameter in the green anole</td>
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<td>12:20</td>
<td><strong>Jessica Joneson, CSU San Bernardino</strong></td>
<td>Tenotomy of the caudofemoralis longus has no effect on alligator locomotion</td>
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<td>12:35</td>
<td>LUNCH</td>
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<td>13:35</td>
<td><strong>Ivo Ros, Harvard University</strong></td>
<td>Potential control inputs for aerial turning in the pigeon</td>
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<td>13:50</td>
<td><strong>Nicole Danos, UC Irvine</strong></td>
<td>Effects of ontogeny and senescence on the functional morphology of locomotion</td>
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<td>14:05</td>
<td><strong>Matt McHenry, UC Irvine</strong></td>
<td>Predator detection and escape in fish</td>
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<td>14:10</td>
<td><strong>Bill Stewart, UC Irvine</strong></td>
<td>Zebrafish larvae evade predators by sensing water flow</td>
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<td>14:25</td>
<td><strong>Arjun Nair, UC Irvine</strong></td>
<td>Optimal approach strategies for fish predators based on lateral line sensation</td>
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<td>14:30</td>
<td><strong>Sean Wilcox, Cal Poly Pomona</strong></td>
<td>Swimming performance and cannibalism in poison frog larvae</td>
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<td>14:45</td>
<td><strong>Kevin Jagnandan, UC Riverside</strong></td>
<td>Ribbon-fin locomotion in bowfin, <em>Amia calva</em></td>
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<td>14:50</td>
<td><strong>Vikram Baliga, UC Santa Cruz</strong></td>
<td>Morphology and ontogeny of cleaning behavior in labrid fishes</td>
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<tr>
<td>14:55</td>
<td><strong>Roy Heng, Cal Poly Pomona</strong></td>
<td>Mechanical catch facilitates ballistic prey capture in toads</td>
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15:10  Leith Miller, UC Santa Cruz  
Descriptive study of the cranial morphology of Opistognathidae: linking skull characteristics to burrow construction

15:15  Brian Kraatz, Western University of Health Sciences  
Ecological correlates to cranial morphology within Leporidae

15:30  Tomasz Owerkowicz, CSU San Bernardino  
Overlapping magisteria of cardiovascular and musculoskeletal physiology

15:35  Elisabeth Cook, CSU San Bernardino  
New experimental model to investigate the effect of augmented intracardiac shunt

15:40  Johnny Yang, CSU San Bernardino  
Heart regeneration potential in reptiles

15:45  COFFEE BREAK

16:30  PLENARY LECTURE  
Dave Carrier, University of Utah  
Anatomical indices of aggression: did human nature always have a dark side?

17:30  Stuart Sumida & Tomasz Owerkowicz  
Concluding remarks

CONTRIBUTED POSTERS

Andres Carrillo (UC Irvine)  
Effects of extended incubation on the skeletal morphology, feeding rates and post-hatching growth of larval grunion

Katie Johnson (CSU San Bernardino)  
Comparative anatomy of flight and contour feathers in aquatic birds

Victoria Ngo (UC Irvine)  
Swimming hydrodynamics at intermediate Reynolds numbers of water boatmen

Marion Preest (The Claremont Colleges)  
Chemical prey luring in Jackson's chameleons: time's fun when you're having flies

Mingna Zhuang (UC Riverside)  
Comparative gliding performance of Anolis carolinensis and Anolis sagrei