OFFICIAL PROGRAM
OF THE
102nd ANNUAL TECHNICAL MEETING

OKLAHOMA
ACADEMY OF SCIENCE

Affiliated with the
American Association for the Advancement of Science

FRIDAY
November 8, 2013

Cameron University
Lawton, Oklahoma
OKLAHOMA ACADEMY OF SCIENCE

Established in 1909

“The purpose of the Academy shall be to stimulate scientific research; to promote fraternal relationship among those engaged in scientific work in Oklahoma; to diffuse among the citizens of the State a knowledge of the various disciplines of science; and to investigate and publicize the human, natural and educational resources of the State.”

(Article 1, Section 2 OAS Constitution)

Activities of the Academy


- Hosts the Annual Technical Meeting for the presentation of scientific papers by both professional and collegiate scientists.

- Sponsors symposia on selected topics of timely and vital interest to the State and Nation.

- Arranges spring and fall field meetings in different biogeographic regions of the State.

- Coordinates and promotes the activities of the Oklahoma Junior Academy of Science.

- Supervises the activities of the Oklahoma Collegiate Academy of Science.

- Provides research grants and scholarship awards to outstanding proposals submitted by secondary school and undergraduate college students.

- Provides scientific consultation services to governmental and private agencies throughout the State.
102nd ANNUAL TECHNICAL MEETING
OKLAHOMA ACADEMY OF SCIENCE
CAMERON UNIVERSITY

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102nd ANNUAL TECHNICAL MEETING
OKLAHOMA ACADEMY OF SCIENCE
CAMERON UNIVERSITY

PROGRAM SUMMARY

Thursday, 7 November 2013

6:30 p.m. Executive Council Dinner/Meeting Buddy Green Room
2nd floor
McMahon Centennial Complex

Friday, 8 November 2013

7:30 a.m. Registration for Technical Meeting Atrium
- 10:00 a.m. Sciences Complex

8:30 a.m. Concurrent Scientific Paper Sessions Sciences Complex (SC)
- 2:30 p.m. McMahon Centennial Complex (MCC)

Section A Biological Sciences – Botany .................................. SC 101
Section A Biological Sciences – Zoology ......................... SC 102
Section B Geology .............................................................. SC 200
Section C Physical Sciences ................................................. SC 103
Section D Social Sciences ................................................. SC 140B
Section E Science Communication and Education ........ SC 147
Section F Geography .......................................................... SC 204
Section G Applied Ecology and Conservation ................ SC 201
Section H Microbiology ...................................................... MCC 211
Section I Engineering Sciences ....................................... SC 104
Section J Biochemistry and Biophysics ......................... SC 205
Section K Microscopy ......................................................... SC 140B
Section L Mathematics ....................................................... SC 105
Section M Environmental Sciences ............................. MCC 212
Section N Biomedical Sciences .................................... MCC 204

WICHITA MOUNTAINS SYMPOSIUM .......................... SC 100

Posters (9-11 am) .......... 1st floor hallway, Sciences Complex
Vendors ....................................................... Atrium, Sciences Complex
Refreshments .......................... Atrium, Sciences Complex
11:00 a.m. **Section Meetings**
Presentation Rooms
Election of Section Vice-Chair.
[Provide this information to Dr. David Bass at the check-in desk before leaving.]

11:30 a.m. **Academy Business Meeting**
Goodyear Lecture Hall
All OAS members are encouraged to attend. 1st floor, rm 100
Visitors are welcome. Sciences Complex

12:00 p.m. **Academy Luncheon**
McCasland Ballroom
& Plenary Address 2nd floor
Admission by ticket only. McMahon Centennial Complex

**Dr. Darrin Akin**
Associate Dean for Research
Professor of Microbiology & Immunology
University of Oklahoma College of Medicine
Director, OK-INBRE Program

*Empowering Undergraduate Student Career Development Using Individual Development Plans*
GENERAL INFORMATION

Name Badges: Name badges, provided upon registration, must be worn at all times by all individuals attending Academy section programs, business meetings, and luncheon. If your badge is not visible, you may be asked to leave by the persons in charge. Lost badges may be replaced at the registration desk upon verification of your registration documents. **All presenters must register and wear an official name badge.**

Parking: Three large parking lots are near the Science Complex.

On-site Registration Fees: Members - $20.00  
Non-members - $25.00  
Student members - $10.00  
Student non-members - $15.00  
Luncheon tickets (if available) - $18.00

2013 and 2014 Dues are Payable: The OAS registration desk will accept dues payments.

- Professional - $30.00  
- Graduate/Undergraduate Student - $20.00  
- Family - $35.00  
- Library - $40.00  
- Life - $500.00

Guidelines for Abstract Publication: Abstracts may be published in the *Proceedings of the Oklahoma Academy of Science*, subject to the editorial policies as stated in the most recent issue of the *POAS*, Volume 92, 2012, and the review of the Editorial Board. Specific formatting instructions for abstracts may be found at [http://biosurvey.ou.edu/oas/publications.html](http://biosurvey.ou.edu/oas/publications.html). Abstract publication fee is $35. *POAS* editor is Dr. Mostafa S. Elshahed, [mostafa@okstate.edu](mailto:mostafa@okstate.edu).

Executive Director: Inquiries concerning upcoming OAS activities and membership may be directed to Dr. David Bass, OAS Executive Director, Campus Box 90, University of Central Oklahoma, Edmond OK 73034, 405-974-5772, [dbass@uco.edu](mailto:dbass@uco.edu).

No Smoking: Please, no smoking in any of the buildings on the campus. Also, food and drink are not permitted in any meeting room. Thank you.

Assistance or Information: Look for individuals with OAS badges or host ribbons. These are faculty and staff assigned to assist you.
**Official Meeting Hotels:**
*Fairfield Inn and Suites*
201 SE 7th St., Lawton, OK 73501; 580-248-5500

*La Quinta Inn and Suites*
1408 NW 40th St., Lawton, OK 73505; 580-355-6800
http://www.lq.com/lq/properties/propertyProfile.do?propld=6172

*Springhill Suites*
3 SE Interstate Dr., Lawton, OK 73501; 580-248-8500

**SPECIAL THANKS**

John McArthur, President of Cameron University, for providing his support.
Ronna Vanderslice, Vice President for Academic Affairs, for funding the Executive Committee dinner.
Terry Conley, Dean of the School of Science and Technology, for providing the refreshments and for coordinating all the arrangements for today’s meeting.
Students, Faculty, and Staff of the School of Science and Technology for their volunteer service.

**UPCOMING MEETINGS**

2014  Oklahoma Junior Academy of Science Awards, Oklahoma State Science and Engineering Fair, March 6-7, East Central University
2014  Spring Field Meeting, tba
2014  Fall Field Meeting, Sept. 19-21 (tentative), Black Mesa State Park
2014  Annual Technical Meeting, Nov. 7, Northeastern State University-Broken Arrow campus
WICHITA MOUNTAINS SYMPOSIUM

Sciences Complex 100

8:00  Symposium Opening

8:15  What does the Topographic Character of the Wichita
      Mountains Tell Us? M. Charles Gilbert, Emeritus Professor,
      ConocoPhillips School of Geology and Geophysics, University of
      Oklahoma.

8:45  From Mammoths to Medicine Bluff: The Cultural History of
      the Wichita Mountains. Robert L. Brooks, Oklahoma
      Archeological Survey, University of Oklahoma.

9:15  Historical Indigenous Peoples of the Wichita Mountains
      Region. Michael Cox, Department of History and Government,
      Cameron University.

9:45  Break

10:00 The Economic Impact of Tourism. Syed Ahmed, Director of
      the Bill W. Burgess, Jr. Business Research Center, Cameron
      University.

10:30 Significance of the Wichita Mountains in the Flora of
      Oklahoma. Bruce Hoagland, Oklahoma Biological Survey and
      Department of Geography and Environmental Sustainability,
      University of Oklahoma.

11:00  Section Business Meetings
       (Presentation rooms)

11:30  Academy Business Meeting
       (Sciences Complex 101)

12:00  Academy Luncheon
       (McCasland Ballroom, 2nd floor
       McMahon Centennial Complex)
WICHITA MOUNTAINS SYMPOSIUM

1:45  **Faunal Diversity of the Wichita Mountains: A Resource for Tourism, Citizen Science, and Research.** Michael S. Husak, Department of Biological Sciences, Cameron University.


2:45  **A Decade of Fire Ecology Research at the Wichita Mountains Wildlife Refuge.** Ralph Godfrey, U.S. Fish and Wildlife Service.

3:15  Break

3:30  **Wichita Mountains: Oklahoma Outpost for the Endangered Black-capped Vireo.** Joseph A. Grzybowski, College of Mathematics and Science, University of Central Oklahoma.

4:00  **The Climate of the Past, Present, and Future and the Impact on Oklahoma.** Gary McManus, Associate State Climatologist, Oklahoma Climatological Survey.


5:00  Symposium Closing
SECTION A: BIOLOGICAL SCIENCES - BOTANY
Sciences Complex 101
Moderator: Adam Ryburn
Oklahoma City University

8:30  *Variation in Mechanical Strength of Ferns in the Santa Monica and Santa Cruz Mountains. H. Holmlund, S. Davis. Oklahoma Christian University, Pepperdine University.

8:45  *Investigating a Red Algal Protein that May Protect Photosynthesis Against High Light Levels. Sukyoung Kwak, Steven J. Karpowicz. University of Central Oklahoma.

9:00  *Response of Chlamydomonas reinhardtii to Medium Viscosity. Thi Nguyen, Huong Do, Steven J. Karpowicz. University of Central Oklahoma.


9:30  Break


10:00  **Phylogeny and Biogeography of a Semi-Arid Adapted Clade of Milkweeds (Podostemma clade, Asclepias L., Apocynaceae). Lindsey Worcester. Oklahoma State University.


10:30  Flora of Oklahoma Annual Meeting

*Undergraduate Competition
**Graduate Competition
11:00  Section A Business Meeting  Sciences Complex 101  (combined with Zoology)

Posters


*Undergraduate Competition*
SECTION A: BIOLOGICAL SCIENCES - ZOOLOGY
Sciences Complex 102

Moderator: Michael S. Husak
Cameron University

9:00  
*Comparing Growth Rates Between Scissor-Tailed Flycatchers and Western Kingbirds. Aaron Quickle, Alex Jahn, Diane Landoll, Diego Tuero, Michael Husak. Cameron University.

9:15  
*Modeling of the Vision System of the Kangaroo Rat (Dipodomys ordii) and Implications for UV Communication. Adrienne Wells, Brandon McDonald, Bryce Geiger, Joe Macedonia, Charlene Belew, Kelsey Carter, Paula Pierce, Larissa Perry. Cameron University.

9:30  
Break

9:45  
*Photoreceptor Proteins and Relative Densities in the Retina of the Kangaroo Rat (Dipodomys ordii) and Implications for Vision. Sarah Vrla, Bryce Geiger, Brandon McDonald, Paula Pierce, Larissa Perry. Cameron University.

10:00  
**The Spring-Summer Nesting and Activity Patterns of the Western Chicken Turtle (Deirochelys reticularia miaria). Donald T McKnight. Missouri State University.

10:15  

10:30  

*Undergraduate Competition  
**Graduate Competition
SECTION A: BIOLOGICAL SCIENCES - ZOOLOGY
(cont.)

11:00 Section A Business Meeting
(combined with Botany)

Sciences Complex 101

Posters

*Breeding Home Ranges of Scissor-Tailed Flycatchers: Preliminary Data.
Jessica Roy, Michael S. Husak, Diane V. Landoll. Cameron University.

*The Effects of Weather and Neighbors on Displays of Scissor-Tailed
Flycatchers. Misti M. Shultz, Diane V. Landoll, Michael S. Husak. Cameron
University.

*Operative Temperature Availability Within Microhabitats Used by Two
Sympatric Lizard Species in the Wichita Mountains. Jetta Trammell,
Matthew Van Sant. Cameron University.

The Omnivorous Diet of the Western Chicken Turtle (Deirochelys
reticularia miaria). Donald T McKnight. Missouri State University.

*Undergraduate Competition
SECTION B: GEOLOGY
Sciences Complex 200

Moderator: Kurtis Koll
Comanche Nation College, Lawton
Upper Iowa University, Ft. Sill

8:45 *Oklahoma Tar Pits and the Native American Influence. K. Koll, P. Nauni. Comanche Nation College.

9:00 Hematite, Meteorites and Native Traditional Insight. K. Koll, P. Nauni. Comanche Nation College.


11:00 Section B Business Meeting

*Undergraduate Competition
SECTION C: PHYSICAL SCIENCES
Sciences Complex 103

Moderator: Weldon Wilson
University of Central Oklahoma


10:00  *Photochemistry Laboratories in Undergraduate Organic Lab. Roosevelt Matthews, Truman Deeb, Kristen Worthen, E. Ann Nalley. Cameron University.


10:30  Using the Slope Method to Obtain the Attenuation Coefficient of Liquids. Karen Williams. East Central University.


11:00  Section Business Meeting

Posters


*Undergraduate Competition
SECTION D: SOCIAL SCIENCES
Sciences Complex 140B
Moderator: Tephillah Jeyaraj
University of Central Oklahoma

11:00 Section D Business Meeting
SECTION E: SCIENCE COMMUNICATION & EDUCATION
Sciences Complex 147

Moderator: Erica Corbett
Southeastern Oklahoma State University


10:00  MOOCs – What is Their Role in the Future of Higher Education? Panel Discussion: Stan Rice, Southeastern Oklahoma State University; Brad Bays, Oklahoma State University.

11:00  Section E Business Meeting
SECTION F: GEOGRAPHY
Sciences Complex 204

Moderator: Brad Bays
Oklahoma State University


9:00  Barns of Northeast Oklahoma. Brad Bays. Oklahoma State University.

Poster Presentations


11:00  Section F Business Meeting
The Status of Historical Tree Plantations at The Wichita Mountains Wildlife Refuge, Comanche County, Oklahoma. Mike Dunn. Cameron University.


Section G Business Meeting
SECTION H: MICROBIOLOGY
McMahon Centennial Complex 211

Moderator: Joel Gaikwad
Oral Roberts University


11:00 Section H Business Meeting

Posters


*Fungal Endophytes of Green Briers (Smilax sp.). Taylor Glasco, Caleb Biles, C. Biles. East Central University.

*Undergraduate Competition
SECTION I: ENGINEERING SCIENCES

Sciences Complex 104

Moderator: Morshed Khandaker
University of Central Oklahoma


9:00 Designing a Digital Test Set using LabVIEW. Montell Wright. University of Central Oklahoma.


9:30 Break


10:30 Characterization of the Mechanical Tension in Dermal-Equivalent Collagen Lattices. Lauren Tinnin, Khiet Tran, Melville Vaughan, Gang Xu. University of Central Oklahoma.

SECTION I: ENGINEERING SCIENCES
(cont.)

11:00  Mechanical Effectiveness of Polyvinyl Alcohol/Polyvinyl Pyrrolidone (PVA/PVP) as an Intervertebral Disc Polymer. Kooroush Azartash-Namin, S. Ashton Williams, Zheila Azartash-Namin, Khiet Tran, Morshed Khandaker. University of Central Oklahoma.

11:15  Section I Business Meeting
SECTION J: BIOCHEMISTRY AND BIOPHYSICS
Sciences Complex 205

Moderator: Bill Luttrell
Oklahoma Christian University


11:00  Section J Business Meeting

*Undergraduate Competition
SECTION K: MICROSCOPY
Sciences Complex 140B

Section Chair: Andrew Madden
University of Oklahoma
SECTION L: MATHEMATICS
Sciences Complex 105
Moderator: Clay Carley
East Central University

8:30  A Duck Tale. Anita Walker. East Central University.


9:30  Break


10:00  *Running As Fast As You Can! Michael Cain, Anita Walker. East Central University.


11:00  Section L Business Meeting

*Undergraduate Competition
1:30  Big Data, Big Science: Analysis of the Higgs Boson Data From the Large Hadron Collider. Warren Mosely. Southwestern Oklahoma State University.

1:45  What Students Need to Know About Computing. Rad Alrifai, Rick Matzen. Northeastern State University.

2:00  Parsing Data A Data Mining Operation. Clay B. Carley III. East Central University.
SECTION M: ENVIRONMENTAL SCIENCES
McMahon Centennial Complex 212

Moderator: Daniel McInnes
East Central University


11:00  Section M Business Meeting

Poster

*Preliminary Investigations of Actinomycetes as a Chlordane Remediation Agent. J. Bidlack, J. Green, F. Osburn, B. Webster, P. Olson. University of Central Oklahoma.

*Undergraduate Competition
SECTION N: BIOMEDICAL SCIENCES
McMahon Centennial Complex 204
Executive Board Room

Moderator: Earl Blewett
Oklahoma State University – Center for Health Sciences

8:45  Bioinformatics for the Classroom. E. L. Blewett. Oklahoma State University-Center for Health Sciences.

9:00  *Prophage SF370.1 is the Helper Phage of Streptococcus pyogenes Chromosomal Island SpyCIM1. Craig Land, Kimberly McCullor, Scott V. Nguyen, Catherine King, W. Michael McShan. Redland Community College.


9:30  Break


10:00  *IL-24 Inhibits Cancer Metastasis by Regulating the CXCR4/SDF-1 Axis. J. Bates, J. Panneerselva, J. Lauderdale, Q. Wang, R. Ramesh. Oklahoma Christian University, University of Oklahoma Health Sciences Center.


11:00  Section N Business Meeting

*Undergraduate Competition
***High School Student Presentation
Dr. Darrin Akins is a Professor in the Department of Microbiology & Immunology at the Oklahoma University Health Sciences Center (OUHSC). Dr. Akins has been funded by the NIH since arriving at OUHSC and currently is Principal Investigator on several NIH grant awards. He is the Principal Investigator of the statewide Oklahoma IDeA Network of Biomedical Research Excellence (INBRE) award, an NIH grant totaling ~$19 million. He has served as a permanent member of the American Heart Association Immunology and Microbiology study section for four years and also was a permanent member of the Microbiology and Infectious Disease Research Committee (MID) study section at NIH for five years. Currently, he is a permanent member on the bacterial pathogenesis (BACP) study section at NIH. Dr. Akins also has served ad hoc on several other NIH study sections, including the NIH underrepresented minority predoctoral fellowship study section. He is an editorial board member for the journals *Infection & Immunity* and *Frontiers in Microbiology*. Dr. Akins has extensive administrative experience. He was the Graduate College Assistant Dean at OUHSC from 2006 - 2011, where he was in charge of directing all summer undergraduate research programs on the OUHSC campus, and he is currently the Associate Dean for Research in the College of Medicine at OUHSC where he oversees the research mission.

In addition to his administrative duties, Dr. Akins also runs a highly productive research laboratory. His research focus is on Lyme disease, the most common tick-borne infection in the United States. The major goal of his laboratory research is to identify novel outer surface proteins from the organism that causes Lyme disease and examine their role with regard to virulence, improved diagnostic testing, and vaccine development. He has currently published over 50 manuscripts, book chapters, and reviews.
OKLAHOMA ACADEMY OF SCIENCE PRESIDENTS

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<tr>
<th>Year</th>
<th>President, Location</th>
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