OKLAHOMA COLLEGIATE ACADEMY OF SCIENCE WINNERS
2011 Annual Technical Meeting

The Oklahoma Academy of Science wishes to thank all undergraduates who participated in the 2011 Collegiate Academy competition held on the campus of Southeastern Oklahoma State University in Durant. Both students and advisors are commended for engaging in research at the undergraduate level. The Collegiate Academy recognizes that research conducted by undergraduates is seldom rewarded, but critical to furthering scientific education in our state.

Oral presentation section winners were:

Section A - Biological Sciences, Botany	Influence of Meteorological Conditions on the Aerobiology of *Juniperus ashei* in Sonora, Texas. **C.C. Bogdanoff**, Oral Roberts University
Section B - Geology	Distribution and Occurrence of Karst Features in the Arbuckle-Mountains of South Central Oklahoma. **Kevin Blackwood**, East Central University
Section D - Social Sciences	Life History Theory and Attachment to Parents, Partners, and God. **Jeni C. Presley** and Alicia Limke, University of Central Oklahoma
Section F - Geography	Deriving Population Exposure Fatality Rate Estimates for Tornado Outbreaks Using Geographic Information Systems (GIS). **Amber R Cannon**, East Central University
Section G - Fish and Wildlife	Movement and Overwinter Survival of Captive-Raised Juvenile American Alligators in Southeastern Oklahoma. **Stacia Harrison** and Tim Patton, Southeastern Oklahoma State University
Section H - Microbiology	The Detection of Panton-Valentine Leukocidin (PVL) Gene in CA-MRSA among Oral Roberts University Community, **Philipa Osafo-Ampadu** and Joel Gaikwad, Oral Roberts University
Section I - Engineering Science	Design, Fabrication and Mechanical Characterization of Polyethylene Glycol Diacrylate (PEGDA) for Tissue Engineering Applications. **A. Orock**, S. Tarantini, J. White, M.Khandaker, O. Yasar. University of Central Oklahoma.

Section J - Biochemistry & Biophysics	Development and Characterization of Transition Metal Complexes as CXCR4 Antagonists**. Candace Baker**, Redlands Community College; Tim Hubin, Southwestern Oklahoma State University
Section L - Mathematics	The Mathematics of Hyperthermia as a Medical Treatment Option for Tumors. **Ashley Cardwel**l, East Central University
Section M - Environmental Sciences & Planning	Atelier Dreiseitl, Approach to Landscape in Europe **James Hazzard**, Oklahoma State University
Section N - Biomedical Sciences	Developing a Method of Continuous Application of RetinoicAcid in the Chick Sclera. **Cody A. Bryant**, L. R. Hollaway, W.Lam, J. Powell, J. A. Summers Rada. Oklahoma ChristianUniversity, University of Oklahoma Health Sciences Center

The Collegiate Academy deemed "BEST OF ACADEMY" to be awarded to **Candace Baker**, with a tie for second best **to Kevin Blackwood** and **Cody Bryant**.

Poster presentation winners are:

Section F - Geography	Field Collection and Mapping of Peoples Electric Cooperative Power Poles. **Trevin Vass**, East Central University
Section K - Microscopy	Imaging Unstained, Unfixed Ocular Tissues of *Gallus gallus domesticus* with Confocal Microscopy and Multiphoton Microscopy**. J.T. Powell** and J.A. Summers Rada, Oral Roberts University and the University of Oklahoma Health Sciences Center
Section M - Environmental Sciences and Planning	Characteristics of a Small Stream During Severe Drought Conditions. **A. Williams** and M. Avard. Southeastern Oklahoma State University
Section N - Biomedical Sciences	Performance on 8-ft Up-and-Go Test Improved in Elderly after Use of Dynavec **MD Machine**. J.W. Barber, Oral Roberts University

The Collegiate Academy awarded **Trevin Vass** the "BEST OF ACADEMY" Poster.