96th ANNUAL TECHNICAL MEETING  
OKLAHOMA ACADEMY OF SCIENCE  
TULSA COMMUNITY COLLEGE – SOUTHEAST CAMPUS

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96th ANNUAL TECHNICAL MEETING
OKLAHOMA ACADEMY OF SCIENCE
TULSA COMMUNITY COLLEGE – SOUTHEAST CAMPUS

PROGRAM SUMMARY

Thursday, 1 November 2007
6:30 p.m. Executive Council Dinner and Meeting
Fireplace Lounge
Student Union

Friday, 2 November 2007
7:30 a.m. - 10:00 a.m. Registration for Technical Meeting
South Atrium
Science/Math Center

8:30 a.m. - 11:00 a.m. Concurrent Scientific Paper Sessions
Science/Math Center

Section A Biological Sciences – Botany ................................................................. Room 8167
Section A Biological Sciences – Zoology ................................................................. Room 8169
Section B Geology .................................................................................................. not meeting
Section C Physical Sciences (meeting with Engineering Sciences) ................. Room 8279
Section D Social Sciences ...................................................................................... not meeting
Section E Science Education .................................................................................. Room 8254
Section F Geography .................................................................................................. not meeting
Section G Fish and Wildlife Conservation .............................................................. Room 8258
Section H Microbiology ............................................................................................. Room 8277
Section I Engineering Sciences (meeting with Physical Sciences) ................. Room 8279
Section J Biochemistry and Biophysics ................................................................. Room 8252
Section K Microscopy ............................................................................................... Room 8296
Section L Mathematics & Computer Science ...................................................... Room 8177
Section M Environmental Sciences & Planning .................................................... Room 8244
Section N Biomedical Sciences ............................................................................. Room 8256
All Sections Posters .................................................................................................. South Atrium

11:00 a.m. Section Meetings Meeting Rooms Above
Election of Section Vice-Chair.

11:30 a.m. Academy Business Meeting Room 8167
All OAS members are encouraged to attend.
Science/Math Center
Visitors are welcome.

12:00 p.m. - 1:30 p.m. Academy Luncheon and Plenary Address Studio Theater
Admission by ticket only.

John K. Johnson
Professor of Computer Science
University of Science and Arts of Oklahoma
A Neurologically-Inspired Paradigm for Autonomous Robotics

2:00 p.m. - 5:00 p.m. Concurrent Scientific Paper Sessions
GENERAL INFORMATION

Name Badges:  Name badges, provided upon registration, must be worn at all times by all individuals attending Academy sectional 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:  Free parking is available in lots 6, 8, and 9.

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

2007 and 2008 Dues are Payable:  The OAS registration desk will accept dues payments.  
Professional - $25.00; Graduate/Undergraduate Student - $15.00;  
Family - $30.00; Life - $500.00

Guidelines for Paper Publication:  Papers may be published in the *Proceedings of the Oklahoma Academy of Science*, subject to the editorial policies as stated in *POAS*, Volume 82 and review of the Editorial Board. OAS members are charged $30-$35 per page and non-members are charged $90-$105 per page.

Executive Secretary-Treasurer:  Inquiries concerning upcoming OAS activities and membership may be directed to Dr. David Bass, OAS Executive Secretary-Treasurer, Campus Box 90, University of Central Oklahoma, Edmond OK 73034, 405-974-5772, dbass@ucok.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.

Refreshments:  Food and drink will be available in the south atrium of the Science and Mathematics Center during registration and breaks.

Assistance or Information:  Look for individuals with OAS badges or host ribbons. These are faculty and staff assigned to assist you.

Buildings:  
Bldg. #6  Studio Theater  
Bldg. #8  Science and Mathematics Center  
Bldg. #9  Student Union
John K. Johnson received his bachelor of science in medical technology with an emphasis in microbiology and a Masters degree in electrical engineering, focusing in BioMedical Engineering. His Ph.D. is actually a dual degree in electrical engineering and computer engineering from the University of Missouri – Columbia. Following graduation, Dr. Johnson worked for NASA at the Johnson Space Center in Houston in the Mission Manager's Office for integration of Spacelab in the space shuttle. He has taught at USAO in Chickasha since 1984 and currently serves as a Professor of Computer Science. His latest project involved developing a robotic-driven vehicle with a group of USAO students.

Special thanks are extended to the site coordinator Dr. Joe Parli, Associate Dean of the Science and Mathematics Division at Tulsa Community College – Southeast Campus, who coordinated all aspects of the meeting, including room arrangements, projectors, luncheon, and symposium.

Upcoming Meetings:
2008 Oklahoma Junior Academy of Science, East Central University, March 27-29
2008 Spring Field Meeting, Beavers Bend State Park, April 18-20
Heterogeneous Selection on Trichome Production in Alaskan *Arabidopsis lyrata subsp. kamchatica*. Janette A. Steets, Naoki Takebayashi, Diana E. Wolf, Oklahoma State University, Institute of Arctic Biology, University of Alaska.


Update on *Xanthoparmelia* and Other Lichens of the Wichita Mountains Wildlife Refuge. Sheila Strawn, University of Central Oklahoma.


Initial Results of a Study of the Toxicity of *Tephrosia virginiana* “Devil’s Shoestring” (Fabaceae). Mary E. Gard, R.J. Tyrl, Oklahoma State University.

Germination Dynamics of Four Heterocarpic Gumweeds. Phil Gibson, University of Oklahoma.


Biomass for Biofuels: Unraveling the Genetics of Branching in Panicoid Prairie Grasses. Andrew Doust, Oklahoma State University.

*Mushrooms of San Gerardo de Dota.* R.A. Schaefer, Southern Nazarene University.

Section A Business Meeting, Room 8167

Academy Business Meeting, Room 8167

Academy Luncheon, Studio Theater

* Undergraduate Competition
2:00 Flora of Oklahoma Board Meeting

Poster

SECTION A: BIOLOGICAL SCIENCES – ZOOLOGY
Room 8169

Moderator: Greg Wilson
University of Central Oklahoma

9:30  Comparison of Biodiversity of Night-Flying Insects in Primary and Secondary Cloud Forests. Sharon C. Young, Southern Nazarene University.

9:45  *Tick Ecology in Urban Environments. Mary Henry, Kristen Baum, Oklahoma State University.

10:00 ++Invasive House Sparrows as Alternative Vertebrate Hosts for Buggy Creek Virus. Valerie A. O’Brien, Charles R. Brown, University of Tulsa.

10:15  Spatial Learning in Two Species of Lizard. Mark A. Paulissen, Northeastern State University.


11:00  Section A Business Meeting, Room 8167

11:30  Academy Business Meeting, Room 8167

12:00  Academy Luncheon, Studio Theater

Poster

Comparative Phylogeography of Two Species of Peryomyscus in Oklahoma and Adjacent States. Kimberly Koppari, Amy Cluck, Chris Dunn, Emily Bowles, Miranda Hintergardt, Sarah Smith, Tiffany Cloud, Vagan Mushegyan, Gregory M. Wilson, NSF SURE-STEP Summer Bridge, University of Central Oklahoma.

* Undergraduate Competition
++Graduate Competition
No presentations or business meeting.

Section Chair will remain the same.

Vice-Chair still needed.
SECTION C: PHYSICAL SCIENCES
(Meeting jointly with Engineering Sciences Section I)
Room 8279

Moderator: Karen Williams
East Central University

10:00  The Utilization of Ultrasonic Waves to Measure Properties of Light and Matter. K.A. Williams, East Central University.

10:15  Field Energy in Gravitomagnetic Field Theory. W. J. Wilson, University of Central Oklahoma.

10:30  C++ and Graphical User Interface Program to Estimate Monopolar and Bipolar Current Spreads in Cochlear Implant. Saroj Sigdel, Mohamed Bingabr, University of Central Oklahoma.


11:00  Sections C & I Joint Business Meeting, Room 8279

11:30  Academy Business Meeting, Room 8167

12:00  Academy Luncheon, Studio Theater

Poster

*The Role of Designing Robots to Promote the Interest of Incoming College Freshman Students to Major in Engineering and Computer Science Fields. Nathan Steel, Matthew Mounce, Wei Pee, Baja Jassemnejad, University of Central Oklahoma.

* Undergraduate Competition
No presentations or meeting.

Section Chair will remain the same.

Vice-Chair is still needed.
SECTION E: SCIENCE EDUCATION
Room 8254

Moderator: Erica Corbett
Southeastern Oklahoma State University

9:00  Development of a Freshman Biomedical Learning Community Through Course Clustering. Anne L. Ewing, University of Central Oklahoma.

9:15  Exploring Bioinformatics in the Genetics Laboratory. K. A. McDowell, Northeastern State University.

9:30  Designing and Conducting a Field Trip Course. D. R. Wood, Southeastern Oklahoma State University.


10:00 Teaching Teachers to Teach Science Safety. Kurtis J. Koll, Cameron University.

11:00 Section E Business Meeting, Room 8254
11:30 Academy Business Meeting, Room 8167
12:00 Academy Luncheon, Studio Theater
No presentations or meeting.
Section Chair and Vice-Chair will remain the same.
SECTION G: FISH AND WILDLIFE CONSERVATION  
Room 8258  

Morning Session – Moderator: Dan Shoup  
Oklahoma State University  


9:45  Fifty Years of Sedimentation in Lake Texoma: What Happens as it Fills? Angela T.M. Patton, Southeastern Oklahoma State University.  

10:00  Forest Succession on Depositional Lands Associated with an Aging Reservoir: A Case Study on Lake Texoma. T.M. Patton, J.A. Tucker, Southeastern Oklahoma State University, The Nature Conservancy.  

10:15  Recovery of a Fish Community Following a Golden Algae Kill in Lebanon Pool, Lake Texoma. J.R. Morel, T.M. Patton, C.W. Hargrave, Southeastern Oklahoma State University, Sam Houston State University.  

10:30  *Interactions of Species in the Savegre River through Rainbow Trout Stomach Comparisons. Ashley Koskiniemi, Southern Nazarene University.  

11:00  Section G Business Meeting, Room 8258  
11:30  Academy Business Meeting, Room 8167  
12:00  Academy Luncheon, Studio Theater  

* Undergraduate Competition  
++ Graduate Competition
9:00  Predominant Fungal Genera Found in Homes with Suspected Health Risk. C.L. Biles, East Central University.

9:15  Characterization of an Osmoprotective Locus in *Pseudomonas aeruginosa*. Arden Aspedon, Southwestern Oklahoma State University.

9:30  *Characterization of G Protein MAP Kinase Interactions Using a Yeast Two-Hybrid Screen.* Ruth Weidman, Jeff Hadwiger, Brent Raisley, Oklahoma State University.


10:00 Diversity and Quantification of Candidate Division SR1 in Various Anaerobic Environments. James P. Davis, Mostafa Elshahed, Oklahoma State University.

10:15  *Microbes Tan Naked.* B. Brooks, R.V. Miller, Oklahoma State University.

11:00  Sections H Business Meeting, Room 8277
11:30  Academy Business Meeting, Room 8167
12:00  Academy Luncheon, Studio Theater

Posters

*Lysine as Alternative Therapy in Herpes Simplex Virus Infection: A Review of Research.* E.L. Blewett, J.L. Kisamore, Oklahoma State University Center for Health Sciences, University of Oklahoma.

*Fusion Protein Cleavage is Not Necessary for Virus Infectivity of Bovine Herpesvirus 1 (BHV-1).* E.L. Blewett, Oklahoma State University Center for Health Sciences.

* Undergraduate Competition
SECTION I: ENGINEERING SCIENCES
(Meeting jointly with Physical Sciences Section C)
Room 8279

Moderator: Karen Williams
East Central University

10:00  The Utilization of Ultrasonic Waves to Measure Properties of Light and Matter.
       K.A. Williams, East Central University.

10:15  Field Energy in Gravitomagnetic Field Theory.  W. J. Wilson, University of Central Oklahoma.

10:30  C++ and Graphical User Interface Program to Estimate Monopolar and Bipolar
       Current Spreads in Cochlear Implant.  Saroj Sigdel, Mohamed Bingabr,
       University of Central Oklahoma.

10:45  Characterization of Detector Scintillator Effect on Interventional Device
       Visualization in X-Ray Fluoroscopy.  Yuhao Jiang, University of Central
       Oklahoma.

11:00  Sections C & I Joint Business Meeting, Room 8279

11:30  Academy Business Meeting, Room 8167

12:00  Academy Luncheon, Studio Theater

Poster

*The Role of Designing Robots to Promote the Interest of Incoming College
Freshman Students to Major in Engineering and Computer Science Fields.
Nathan Steel, Matthew Mounce, Wei Pee, Baja Jassemnejad, University of Central
Oklahoma.

* Undergraduate Competition
SECTION J: BIOCHEMISTRY & BIOPHYSICS
Room 8252

Moderator: Michael Massiah
Oklahoma State University


8:45  *Expression, Purification and Characterization of a Protein from the Insect Lipid Droplets, LSD1. Laticia Rivera, Jose L. Soulages, Estela L. Arrese, Oklahoma State University.

9:00  *Purification and Characterization of CcmR, CmpR & Ycf30, LysR-Type Transcriptional Regulators Found in Synechocystis sp. PCC6803. Marla Carrick, Oklahoma State University.

9:15  *Bioinformatic Analysis of Photosystem II of the Water Oxidation Site. Curtis Neveu, Oklahoma State University.


9:45  Break

10:00  ++Paralogous Evolution of LysR-Type Transcriptional Regulator’s (LTTR) Found in Synechocystis sp. PCC6803. Shawn Daley, Oklahoma State University.

10:15  ++ In vitro Study of the Photoassembly of the Water Oxidation Complex of Photosystem II. Aparna Nagarajan, Oklahoma State University.

10:30  Photoassembly of the Mn4-Ca Cluster of the H2O-Oxidation Complex Alters the Coupling of the Reaction Center with the Light-Harvesting Phycobilisome. Hong Jin Hwang, Oklahoma State University.


11:00  Section J Business Meeting, Room 8252

11:30  Academy Business Meeting, Room 8167

12:00  Academy Luncheon, Studio Theater

* Undergraduate Competition
++ Graduate Competition
Posters

*Metagenomics for the Identification of Plants in the Tallgrass Prairie Preserve. Tim Lee, Vijay Muthukumar, Tao Ding, Marlee Pierce, Ulrich Melcher, Graham Wiley, Bruce Roe, Oklahoma State University, University of Oklahoma.

Expression Profiling of Healing Response in Nanofiber-Impaled Chinese Hamster Ovary Cells. P. R. Hoyt, A. Melechko, B. Sumner, R. Conners, T.E. McKnight, Oklahoma State University, Oak Ridge National Laboratory.

* Undergraduate Competition
SECTION K: MICROSCOPY
Room 8296

Morning Session – Moderator: Dean Phillips
ConocoPhillips

9:00  
**Keynote Address:** Microbial Ecology in Extreme Environments: Automobile Air Conditioning Systems, Dr. Robert Simmons, Georgia State University.

10:15  
Break

10:30  

10:45  
†Ultrastructural Features of a Human Placenta with Acute Chorioamnionitis. M. Collins, S. Hyde, B. Meek, O. McClain. St. Francis Pathology Department, Anatomy and Cell Biology Department, Oklahoma State University College of Osteopathic Medicine.

11:00  
*Parvalbumin-Containing Amacrine Cells of the Monkey Retina.* Kathryn Klump, David W. Marshak, Oral Roberts University, University of Texas Medical School at Houston.

11:15  
OMS Business Meeting

11:45  
Ugly Bug Contest Judging and Lunch

* Undergraduate Competition
† OMS Timpano Competition
SECTION K: MICROSCOPY
Room 8296

Afternoon Session – Moderator: Preston Larson
University of Oklahoma

2:00  **Stalking the Silicon Dumbbell.** Gregory W. Strout, Eddie Vaughn, S. Mishina, Tetsuya Mashima, Matthew Johnson, Mark Curtis, Preston R. Larson, Joel Key, Scott Russell, University of Oklahoma, JEOL.

2:15  **Virtual Microscopy in the Medical Histology Course at OSU-College of Osteopathic Medicine.** B. Meek, J. McCosh, Anatomy and Cell Biology Department, Oklahoma State University College of Osteopathic Medicine.

2:30  **A Tour of Ecuador and the Galapagos Islands.** Terry Colberg, Oklahoma State University.

**Posters:**


* Undergraduate Competition
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter/Institution</th>
</tr>
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<tbody>
<tr>
<td>8:30</td>
<td>How Do We Define Artificial Intelligence?</td>
<td>Molissa Derk, Oklahoma City University.</td>
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<tr>
<td>8:45</td>
<td>Data Thinning: New Technology or Just a New Name.</td>
<td>Clay B. Carley III, East Central University.</td>
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<td>9:00</td>
<td>Component-Oriented Programming.</td>
<td>Hieu Vu, Murray State College.</td>
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<td>9:30</td>
<td>Introduction to RSA – A Tutorial.</td>
<td>Mary Kay Tarver, East Central University.</td>
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<tr>
<td>9:45</td>
<td>*Forecasting Box Office Success with Neural Networks and Text Mining.</td>
<td>Michael Henry, Ramesh Sharda, Dursen Delen, Oklahoma State University.</td>
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<tr>
<td>10:00</td>
<td>*Directional Relation Extraction from Biomedical Text.</td>
<td>Cory Giles, Oklahoma Christian University.</td>
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</table>

11:00  Section L Business Meeting, Room 8177  
11:30  Academy Business Meeting, Room 8167  
12:00  Academy Luncheon, Studio Theater

* Undergraduate Competition
SECTION M: ENVIRONMENTAL SCIENCES & PLANNING  
Room 8244

Moderator:  Bill Walker  
East Central University

8:30  *Raymond Jungle: Cutting Edge Landscape Architect.  Michelle Bryant, Oklahoma State University.

8:45  *Pamela Burton & Company: Preeminent Landscape Architecture Office.  Jill Baumgartner, Oklahoma State University.

9:00  *Reed Hilderbrand: Award Winning Landscape Architect.  James Elam, Oklahoma State University.

9:15  Contrast of Russia’s Greatest Squares in Moscow and St. Petersburg.  Charles Leider, Oklahoma State University.


9:45  Break

10:00  *Water Chemistry Dynamics of the Rio Sevegre.  Clinton Ingersol, Southern Nazarene University.


11:00  Section M Business Meeting, Room 8244
11:30  Academy Business Meeting, Room 8167
12:00  Academy Luncheon, Studio Theater

Poster:

*An Assessment of the Water Quality of Fred Creek in Tulsa, OK.  Esther Kisseih, John Korstad, Hal Reed, Oral Roberts University.

* Undergraduate Competition
SECTION N: BIOMEDICAL SCIENCES
Room 8256
Moderator: Melville Vaughan
University of Central Oklahoma

8:30 *Carvacrol-Induced Apoptosis of Human Carcinoma Cells in vitro. Kathryn E. Klump, Joel S. Gaikwad, Oral Roberts University.

8:45 *Levels of Phosphorylated CaMKII in the Rat Hippocampus following Traumatic Brain Injury. L.L. Addington, Oklahoma Christian University.

9:00 *Silver Dihydrogen Citrate: Maximum Tolerated Dose and Silver Analysis in Mice. Crystal Stone, Oklahoma Christian University.


9:30 *Pre-Clinical Evaluation of Silver Dihydrogen Citrate through the Ames and Micronucleus Tests. Sarah Manley, Oklahoma Christian University.


11:00 Section N Business Meeting, Room 8256
11:30 Academy Business Meeting, Room 8167
12:00 Academy Luncheon, Studio Theater

* Undergraduate Competition
<table>
<thead>
<tr>
<th>Year</th>
<th>President</th>
<th>University</th>
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<tbody>
<tr>
<td>1910</td>
<td>H. L. Lane, OU</td>
<td>1955 R. E. Olson, OU</td>
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<tr>
<td>1911</td>
<td>D. W. Othern, Oklahoma City</td>
<td>1956 A. M. Stebler, OAMC</td>
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<td>1912</td>
<td>S. W. Reaves, OU</td>
<td>1957 D. E. Howell, OAMC</td>
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<td>1913</td>
<td>C. W. Shannon, OU</td>
<td>1958 G. J. Goodman, OU</td>
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<tr>
<td>1914</td>
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<td>1959 E. Lucas, OU</td>
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<td>1915</td>
<td>C. W. Shannon, OU</td>
<td>1960 P. E. Smith, OUMS</td>
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<td>1916</td>
<td>C. N. Gould, OU</td>
<td>1961 E. M. Hodnett, OSU</td>
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<td>1917</td>
<td>L. C. Raiford, ISU</td>
<td>1962 H. G. Barclay, TU</td>
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<td>1918</td>
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<td>1963 G. A. Moore, OSU</td>
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<td>1919</td>
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<td>1964 A. D. Buck, NOJC</td>
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<td>1920</td>
<td>M. M. Wickham, Norman</td>
<td>1965 J. E. Webster, OSU</td>
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<td>1921</td>
<td>A. F. Reiter, PU</td>
<td>1966 C. R. Williams, PU</td>
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<td>1922</td>
<td>J. B. Thoburn, Oklahoma City</td>
<td>1967 C. D. Rigs, OU</td>
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<td>1923</td>
<td>R. O. Whitenton, OAMC</td>
<td>1968 E. A. Reynolds, SWSC</td>
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<td>1924</td>
<td>S. Weidman, OU</td>
<td>1969 L. V. Scott, OUHSC</td>
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<td>1925</td>
<td>(spring) C. E. Sanborn</td>
<td>1970 C. C. Carpenter, OU</td>
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<td>1925</td>
<td>(fall) H. L. Dodge, OU</td>
<td>1971 P. Buck, TU</td>
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<td>1927</td>
<td>C. N. Gould, OU</td>
<td>1973 C. J. Mankin, OU</td>
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<td>O. M. Smith, OAMC</td>
<td>1974 N. N. Durham, OSU</td>
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<td>A. Richards, OU</td>
<td>1975 B. Shirley, TU</td>
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<td>1930</td>
<td>L. Long, Ok. City</td>
<td>1976 G. W. Todd, OSU</td>
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<td>1931</td>
<td>A. O. Weese, OU</td>
<td>1977 D. E. Kizer, Noble Foundation</td>
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<td>1932</td>
<td>H. Patterson, OAMC</td>
<td>1978 G. Odell, OSU</td>
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<td>1933</td>
<td>J. E. Knowles, PU</td>
<td>1979 R. Couch, ORU</td>
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<td>1934</td>
<td>F. G. Brooks, OCU</td>
<td>1980 G. Wolgamott, SWSU</td>
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<td>1935</td>
<td>C. E. Decker, OU</td>
<td>1981 E. Rice, OU</td>
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<td>1936</td>
<td>H. J. Harper, OAMC</td>
<td>1982 E. Grigsby, NSU</td>
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<td>1937</td>
<td>B. D. Barclay, TU</td>
<td>1983 J. Sokatch, OUHSC</td>
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<td>1938</td>
<td>C. M. Perry, OU</td>
<td>1984 M. Whitmore, OU</td>
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<td>1939</td>
<td>H. D. Chase, TU</td>
<td>1985 J. Black, OBU</td>
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<td>G. L. Cross, OU</td>
<td>1986 J. Wilhm, OSU</td>
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<td>R. W. Jones, OAMC</td>
<td>1987 M. K. Patterson, Noble Foundation</td>
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<td>H. I. Featherly, OAMC</td>
<td>1988 M. P. Carpenter, OU</td>
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<td>O. F. Evans, OU</td>
<td>1989-1990 K. E. Conway, OSU</td>
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<td>J. R. Nielsen, OU</td>
<td>1993 J. R. Estes, OU</td>
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<td>1946</td>
<td>O. C. Dermer, OAMC</td>
<td>1994-1995 J. D. Tyler, CU</td>
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<td>1951</td>
<td>H. W. Larsh, OU</td>
<td>2004-2005 S. Young, SNU</td>
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<td>1952</td>
<td>V. B. Monnett, OAMC</td>
<td>2006-2007 S. Barber, OCU</td>
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<td>S. P. Massie, LU</td>
<td>2006-2007 S. Barber, OCU</td>
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<td>1954</td>
<td>A. N. Murray, TU</td>
<td>2006-2007 S. Barber, OCU</td>
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