# KAS BULLETIN

**NEWSLETTER OF THE KANSAS ACADEMY OF SCIENCE**


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VOL. 34 NO 1 www.KansasAcademyScience.org/ February, 2009

## 141th ANNUAL MEETING OF THE KANSAS ACADEMY OF SCIENCE

March 27 and 28, 2009
(FRIDAY AND SATURDAY)
Washburn University
Memorial Student Union and Stoffer Science Hall
Topeka, Kansas

## MEETING ANNOUNCEMENT

The 141st Annual Meeting of the Kansas Academy of Science is scheduled for March 27 and 28, 2009, at Washburn University. The meeting includes the **10th Annual Kansas Academy of Science Paleontology Symposium**.

This year's **keynote speaker is Dr. Johannes Feddema, Professor of Geography** at the University of Kansas. Dr. Feddema's research focus is understanding human impact on the earth, especially climate change. More on Dr. Feddema at http://www2.ku.edu/~geography/peoplepages/Feddema_J.shtml

Check the KAS website for all details regarding the conference, including late breaking events listings, abstracts, and presentation schedules.

Ever wanted to catch a behind the scenes glimpse of the National Weather Service? This year's special events include a tour of the Topeka office of the National Weather Service, a local geology field trip featuring rocks and fossils of Shawnee County, and an open house at the Crane Observatory.

**Participants presenting papers** must register by mail in advance. Abstracts and registration forms must be submitted at same time. See registration form later in the newsletter or download at: http://www.kansasacademyscience.org/meeting2009/meeting2009_reg_form.pdf

To submit an abstract, please download and complete the MS Word submission form. Send the completed form as an e-mail attachment to KAS2009@lists.washburn.edu with "Abstract Submission" in the e-mail subject line by **February 14, 2009**. Submission Form Link: http://www.kansasacademyscience.org/meeting2009/KAS_Abstract_Form.doc

**For participants not presenting papers, t**he deadline for on-time registration is **March 2, 2009**. This year all registrations are to be submitted by mail. **Late registration begins March 3, 2009**. No meals can be purchased after March 13th.

This year's T-Shirt design.

**WE LOOK FORWARD TO SEEING YOU IN TOPEKA!**

# THE KANSAS OZARKS

by Hank Guarisco

Although many out-of-staters would be surprised to find anything but hundreds of miles of rolling plains with few trees as they traverse Kansas with distant goals in mind, a glance at a physiographic map of the state reveals the presence of a wide spectrum of habitats. The Short-Grass Prairie of the High Plains in western Kansas, grades into Mixed Prairie in the Smoky Hills, then Tall-Grass Prairie in the Flint Hills. As we travel further eastward, we encounter extensive forests which cover much of the eastern third of the state. Most of these wooded regions represent the western edge of the Eastern Deciduous Forest which extends to the Atlantic Ocean and Gulf of Mexico. However, two areas in southeastern Kansas are unique enough to merit separate consideration. The first is the Chautauqua Hills, which is actually a northern extension of the Cross Timbers of eastern Texas, and is forested with Black Jack Oak, Black Oak, and Chinquapin Oak. The second unique region is the Ozark Plateau in the extreme southeastern corner of the state. That's right, the Kansas Ozarks, complete with limestone caves, clear-flowing streams, sassafras trees, and an annual rainfall over 41 inches.

The best place to enjoy the Kansas Ozarks is in beautiful Shermerhorn Park, just south of Galena. This 65-acre city park has a unique and fascinating history. Edgar B. Schermerhorn, a local clerk and miner who managed to become wealthy, donated 22 acres of land adjoining Spring River to the city of Galena as a park in 1922. In the early 1930s, townspeople employed by the Works Progress Administration (WPA) built the extensive stone walls and terraces that still lead visitors up the wooded hillsides and to Schermerhorn Cave. During the past seven years, the Kansas Department of Wildlife and Parks purchased an additional 43 acres of adjoining land. Last spring, the Southeast Kansas Nature Center was built on the site with the help of local businesses and volunteers.

Visitors can enjoy hiking up hillsides covered by a tall oak-hickory forest and a prairie remnant. They can eat lunch at picnic shelters next to beautiful Shoal Creek, which runs through the park. Last autumn, I spent an afternoon looking for mushrooms with Sherry Kay, an experienced mushroom naturalist. We discovered approximately eighty species, including several that had not previously been seen in Kansas. On other occasions, I have been fortunate to discover several spider species in Schermerhorn Park that were new to Kansas. The cave habitat is the home of several species of bats, including the gray myotis, eastern pipistrel, big brown, and red bats. In the "Ampibians and Reptiles in Kansas," Joseph T. Collins notes: "Four of the eight species of salamanders known in Kansas and one frog make up a distinctive Ozarkian assemblage…These are the grotto salamander, graybelly salamander, dark-sided salamander, cave salamander, and the eastern narrowmouth toad."

Although over-night camping is not allowed in the park, one can camp along the Spring River which forms its southern boundary. The Kansas Ozarks possesses the greatest diversity of fish, as well as other aquatic life, in the state. Several species warrant official protection since they occur only in Shoal Creek or the Spring River. They include: the Ozark minnow, redspot chub, striped shiner, black redhorse, banded sculpin, several species of darters, freshwater mussels, and the Neosho Midget crayfish.

After exploring the park, a visit to The Southeast Kansas Nature Center is a perfect way to finish your trip. There is a great discovery room, with some of the live animals present in the park on exhibit. I was happy to see a specimen of the largest Kansas centipede, on exhibit. The natural wood construction and large picture windows add to the overall experience. There are extensive collections of plants and animals, arrowheads, as well as field guides, and the helpful volunteer staff who happily answer questions. This is a great destination for a nature-oriented family weekend or daytrip. For more information on the park, the nature center, or membership in the not-for-profit foundation which funds the nature center, call 620-783-5207.

References

1. Haslouer, L. et al. 2005. Current status of native fish species in Kansas. Transactions of the Kansas Academy of Science 108(1/2):32-46.
2. Anonymous. 2004. Preserved for all time. Southeast Kansas Living 2(2):23-25.

# SCHERMERHORN PARK

**Schermerhorn Cave Trail**

**Schermerhorn Cave**

**Shoal Creek**

ROOSA
TRAIL

**Picnic Area**

**Sherry Kay at Southeast Kansas Nature Center Entrance**

**Nature Center**

**Live Exhibits**

**Arrowhead Display**

**Butterfly Display**

# DRIVING DIRECTIONS

## Driving Directions to Washburn University from the Topeka Vicinity

**From the North:** Take U.S. Highway 75 south to the Gage Boulevard Exit/I-70 East turnoff (Exit 358), taking the Gage Boulevard exit. Turn right on Gage and proceed south to 17th Street. Turn left (east) and follow 17th Street to MacVicar Avenue. Washburn sits on 160 acres to the southeast.

**From the South:** Take U.S. Highway 75 north the 42nd Street/ Burlingame Road exit. Turn left and drive to yield sign. Turn right on Burlingame Road (north) and follow Burlingame (which changes into Washburn Road) to 21st Street (approx. 20 blocks). Washburn sits on 160 acres to the northwest.

**From the Southwest (I-335):** Take I-335 north (Kansas Turnpike) to the South Topeka Exit (Exit 177). After leaving the toll area, continue straight. The highway will veer to the left and become I-470 west. Take the Burlingame Road exit (the first exit, Exit 5). Turn right (north) and follow Burlingame Road to 21st Street (approx. 20 blocks). Washburn sits on 160 acres to the northwest.

**From the East:** Take I-70/I-470 (Kansas Turnpike) to the South Topeka exit (Exit 177). After exiting the toll area, continue straight. The highway will veer to the left and become I-470 west. Take the Burlingame Road exit (the first exit, Exit 5). Turn right (north) and follow Burlingame Road to 21st Street (approx. 20 blocks). Washburn sits on 160 acres to the northwest.

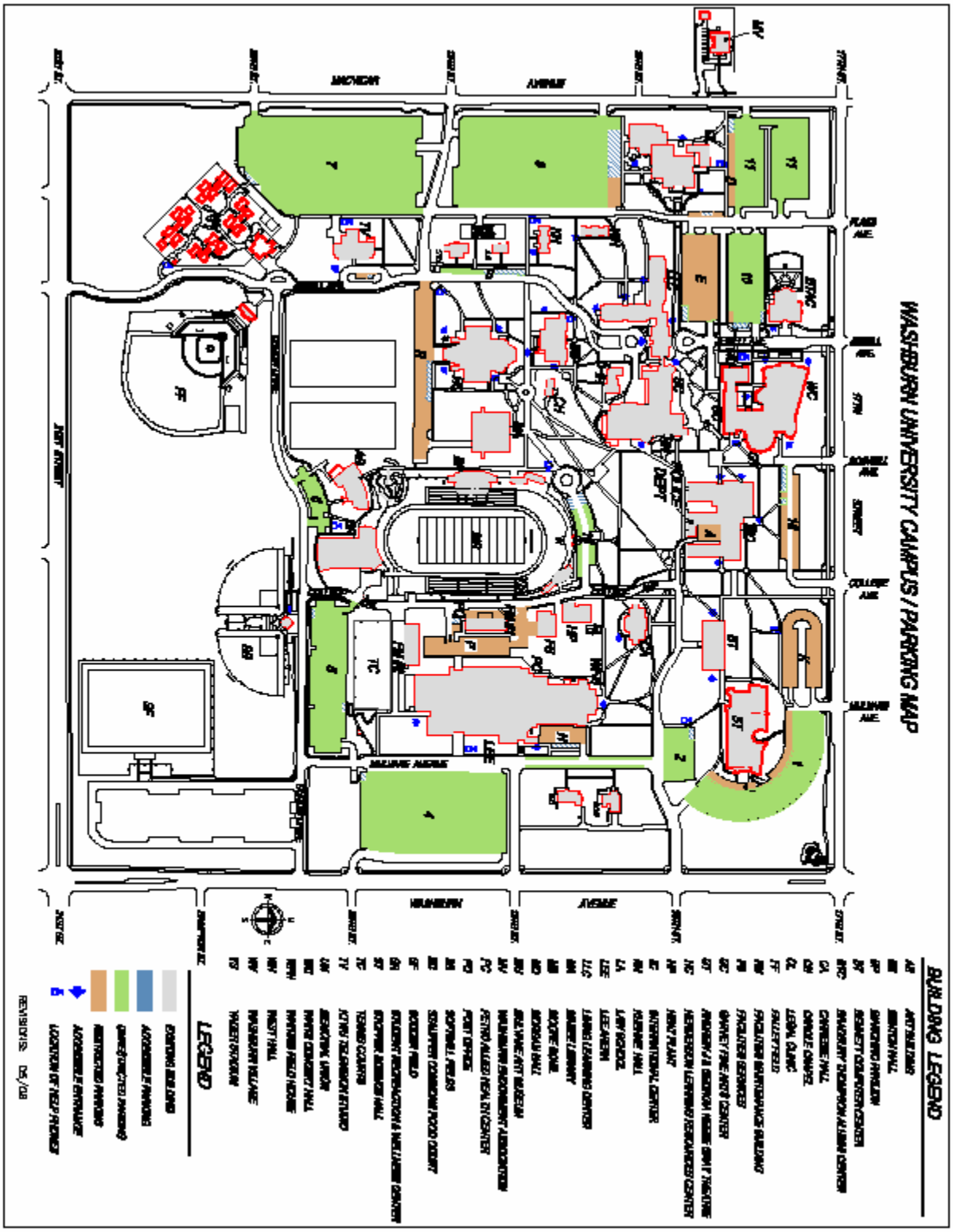
**From the West:** Take I-70 to I-470 East. Take I-470 to the 21st Street exit. Turn left (east) and follow 21st Street to MacVicar Avenue (approx. 30 blocks). Washburn sits on 160 acres to the northeast.

# LODGING INFORMATION

To obtain the KAS meeting rate, call the motel's local number and mention the Kansas Academy of Science Conference at Washburn University when registering. KAS rates below do not include tax.

| | |
|---|---|
| **Best Western Topeka Inn & Suites** 785-228-2233<br>700 SW Fairlawn Road, Topeka, KS 66606<br>Double $69.99, Single $59.99 | **Candlelight Inn Hotel** 785-272-9550<br>2831 SW Fairlawn Road, Topeka, KS 66614<br>Double Full Size $68.95 |
| **Club House Inn & Suites** 785-273-8888<br>924 SW Henderson, Topeka, KS 66615<br>Double Queens $82 (Includes Deluxe Hot Breakfast) | **Days Inn** 800-329-7466<br>1510 SW Wanamaker Road, Topeka, KS 66604<br>Double Queens or Double Kings $79.99 |
| **Holiday Inn Holidome** 785-272-8040<br>605 Fairlawn Road, Topeka, KS 66606<br>$71 | **Hyatt Place** 785-273-0066<br>6021 SW 6th Ave., Topeka, KS 66615<br>$109 |
| **Motel 6** 785-272-8283<br>709 SW Fairlawn, Topeka, KS 66604<br>Double or Single $45.99 | **Motel 6 – West** 785-273-9888<br>1224 SW Wanamaker Road, Topeka, KS 66604<br>Double Occupancy $45.99 |
| **Plaza Inn & Suites** 785-266-8880<br>3810 SW Topeka Blvd., Topeka, KS 66609<br>$52 | **Ramada** 785-234-5400<br>420 SE 6th Ave., Topeka, KS 66607<br>$81 (Includes Hot Breakfast Buffet) |
| **Senate Luxury Suites Hotel** 785-233-5050<br>900 SW Tyler, Topeka, KS 66612<br>Suite - $85 (Includes Kitchenette & Continental breakfast) | **Sleep Inn & Suites** 785-228-2500<br>1024 SW Wanamaker Road, Topeka, KS 66604<br>Queen $89.99, Single $79.99 (Includes Deluxe Breakfast) |
| **Super 8 Motel** 785-273-5100<br>5968 SW 10th Ave., Topeka, KS 66604<br>Queen $89.99 | **Super 8 Motel at Forbes Landing** 785-862-2222<br>5922 SW Topeka Blvd., Topeka, KS 66619<br>2 Double Queens $ 74.99, Singles $71.99 |
| **Travelers Inn** 785-267-1222<br>3846 SW Topeka Blvd., Topeka, KS 66609<br>Singles $40, Doubles $60 | |

Free parking is available in the lot north and east of Stoffer Science Hall (Parking Lot 1 on the campus map).



# KAS CANDIDATE BIOGRAPHIES

It's KAS election time. Below is a list of candidates and their bios. Please mail your votes on the enclosed ballot by March 1st, 2009.

**Shaun Schmidt** is an Associate Professor in Inorganic Chemistry at Washburn University. His Ph.D. is from the University of South Florida which was under the direction of Jay H. Worrell and Kyung Woon Jung. Service to the Kansas Academy of Science includes Council Member at Large and Student Research Grant Coordinator for the past three years, and Organizing Committee Chair for the 141st Annual Meeting to be held at Washburn University.

**Hank Guarisco** has a long-standing interest in biology and natural history, received a BS in Biology from Manhattan College in 1969, an MA in Systematics & Ecology from the University of Kansas in 1973, and pursued graduate studies in Radiation Biophysics at KU from 1975 to 1979. He has specialized in spiders, and has over 3 dozen scientific publications. He has done field work for various governmental entities on the status of the federally endangered American Burying Beetle. He also gives occasional lectures and workshops to teachers, students, and the general public.

**Lynnette Sievert** received her Ph.D. in zoology from the University of Oklahoma and did a post-doc in biochemistry at Auburn University veterinary school. She is currently Professor of Biological Sciences at Emporia State University. Her research interests address the energetics and digestive physiology of amphibians and reptiles. She has served as a mentor for undergraduate research through the K-INBRE program. Lynnette and her husband Greg Sievert co-authored *A Field Guide to Oklahoma's Amphibians and Reptiles* published by the Oklahoma Department of Wildlife Conservation.

**William Miller** teaches biology, botany, and evolution at Baker University in Baldwin City, Kansas. He received his bachelors and masters degrees from the University of Montana, in 1967 and 1975. His doctorate was earned in 1996 for his study on the Tardigrades of the Australian Antarctic at the University of New England, Armidale, Australia. Dr. Miller has taught at Southwestern College in Winfield, KS, Cowley County Community College in Arkansas City, KS, and Chestnut Hill College in Philadelphia. Dr. Miller is an invertebrate ecologist with interests in the taxonomy, DNA, diversity, and distribution of the animals of the phylum Tardigrada. He also has research interests in environmental remote sensing, GIS, GPS, ROV (Remotely Operated Vehicles), and invertebrates in the canopy. Dr. Miller has described half a dozen new species, published more than 40 professional papers and book chapters, and is the Principle Investigator on two National Science Foundation research grants totaling more than a million dollars. He is a Research Associate at the Academy of Natural Sciences, Philadelphia.

**Dixie Smith** is an Associate Professor of Biology at Pittsburg State University, Pittsburg, Kansas. She received her doctorate in Biology from Kansas State University in 2001. Dr. Smith's research interests are in plant and soil ecology. She supervises both undergraduate and master's level students in research projects, primarily involving soil nitrogen and carbon, but also plant community studies. She is currently a collaborator in several regional watershed rehabilitation and protection strategy (WRAPS) groups, and is currently studying in the field of GIS with the goal of increasing the use of GIS in ecology students' projects at PSU. She maintains professional memberships in the Ecological??? Society of America, the Soil Ecology Society of America, the National Science Teachers Association, the Kansas Association of Teachers of Science, and the Kansas Earth and Space Science Teachers Association. Dr. Smith has collaborated with and participated in several College of Education grants and projects, including a technology project (2002-2003) and No Child Left Behind Grants (2004 & 2008), among others. She also serves as science content advisor for BSE students each semester, both on campus and during their professional semesters off campus. Consequently, she maintains contact with many regional educators as they enter the teaching profession and beyond.

**Richard Schoeder**, a native of Topeka, Kansas, received hia BS in Biology from Washburn University. After college, he joined the U.S. Army spending 3.5 years in active duty and 23 years in the reserves. After his active duty years in the Army, he attended Ft. Hays State University and was awarded an MS in Biology. After graduate school, he moved to the Kansas City area and has lived there ever since. He currently resides in Lenexa, Kansas. While living in the Kansas City area, he has worked in a variety of medical research positions, and in 1991, was granted an ASN at Johnson County Community College. He is currently working as the Career Program Facilitator and as an instructor in the Health Occupations Department at Johnson County Community College. He has his own business, R & P Legal Nurse Consulting, which assists disabled individuals with Social Security claims.

**Matt Arterburn** is an assistant professor of Biology at Washburn University.

# Kansas Academy of Science
# 2009 Election Ballot

Please return ballots by March 1, 2009 to:
Pieter Berendsen, Kansas Geological Survey, 1930 Constant Ave. Lawrence, KS 66047

## For 2009 President-Elect (vote for one)

____William R. "Randy" Miller, Baker University

## For Council at Large

### Class of 2009 (vote for two)

____Matt Arterburn, Washburn University
____Dixie Smith, Pittsburg State University

### Class of 2010 (vote for two)

____Shaun Schmidt, Washburn University
____Hank Guarisco, Sternberg Museum of Natural History

### Class of 2011 (vote for two)

____Lynette Sievert, Emporia State University
____Richard Schroeder, Johnson County Community College

### Class of 2012

_____ Nomination for Council Member
_____ Nomination for Council Member
_____ Nomination for Vice President
_____ Nomination for President-Elect

Please note that KAS is also seeking an institution to host the 2010 annual meeting.

# 141st ANNUAL MEETING OF THE KANSAS ACADEMY OF SCIENCE

March 27 and 28, 2009
Memorial Student Union, Stoffer Science Hall
Washburn University
1700 SW College Ave.
Topeka, KS 66621

## REGISTRATION FORM

**EXTENDED Deadline for Abstract: February 23, 2009**

**Deadline for On-Time Registration: March 2, 2009**
**Late Registration: Begins March 3, 2009**
(NO MEALS MAY BE PURCHASED AFTER MARCH 13)

***CONTACT INFORMATION (PLEASE REGISTER FOR ONE PERSON ONLY PER FORM)***

| LAST NAME | FIRST NAME | INITIAL |
|---|---|---|
| | | |

| MAILING ADDRESS (INCLUDE SUITE OR APT NUMBER) | AFFILIATION (WILL APPEAR ON NAME TAG) |
|---|---|
| | |

| MAILING ADDRESS (CONTINUED) | PO BOX (IF APPLICABLE) | CITY, STATE | ZIP CODE |
|---|---|---|---|
| | | | |

| E-MAIL ADDRESS | HOME PHONE | WORK PHONE | FAX NUMBER |
|---|---|---|---|
| | | | |

☐ ***I CAN JUDGE STUDENT PAPERS SATURDAY MORNING*** *(PLEASE CHECK BOX IF AVAILABLE)*
☐ ***I AM WILLING TO BE A CO-MODERATOR*** *(PLEASE CHECK BOX IF AVAILABLE)*

***REGISTRATION (CHECK ONLY ONE BOX AND LIST TOTAL)***

☐ ***KAS MEMBER $40*** ☐ ***LATE REGISTRATION $60***
☐ ***NON-MEMBER $65*** ☐ ***LATE REGISTRATION $85***
(INCLUDES ONE-YEAR KAS MEMBERSHIP PLUS NEWSLETTER AND TRANSACTIONS)

EXTENDED DEADLINE FOR ABSTRACTS: Feb. 23, 2009

☐ ***KAS STUDENT PRESENTER $10*** ☐ ***LATE REGISTRATION $30***
☐ ***KAS STUDENT NON-PRESENTER $15*** ☐ ***LATE REGISTRATION $35***
☐ ***STUDENT NON-MEMBER $20*** ☐ ***LATE REGISTRATION $40***

*CHECK ONLY ONE BOX*

***REGISTRATION TOTAL $_____***

***MEALS (CHECK DESIRED MEALS AND LIST TOTAL)***

☐ *FRIDAY EVENING BANQUET $14 (PLEASE MARK ONE OF THE CHOICES)*
☐ *NON-VEGETARIAN (GRILLED MARINATED BREAST OF CHICKEN)*
☐ *VEGETARIAN (PENNE PASTA WITH GRILLED VEGETABLES)*

***NO MEALS MAY BE PURCHASED AFTER MARCH 13***

*SATURDAY LUNCH $11 - DELUXE DELI SANDWICHES*
☐ *WITH MEDITERRANEAN VEGETABLES*

***MEAL TOTAL $_____***

***SPECIAL EVENTS (CHECK BOX IF INTERESTED)***

☐ TOUR OF THE NATIONAL WEATHER SERVICE, TOPEKA OFFICE - FRIDAY 2:30-3:30 P.M. - FREE
☐ *LOCAL GEOLOGY FIELD TRIP FEATURING ROCKS AND FOSSILS OF SHAWNEE COUNTY - FRIDAY 1:00-3:00 P.M. - FREE*
☐ *CRANE OBSERVATORY OPEN HOUSE - STOFFER 4™ FLOOR - WASHBURN CAMPUS - FRIDAY 8:00-9:30 P.M. - FREE*

*T-SHIRT - Please indicate the number, size and sleeve length you wish to order. Check appropriate boxes:*

| *T-Shirt Size* | *$10 Short Sleeve* | *$15 Long Sleeve* | *Number Ordered* |
|---|---|---|---|
| ***Small*** | | | |
| ***Medium*** | | | |
| ***Large*** | | | |
| ***1 X*** | | | |
| ***2 X*** | | | |

***T-SHIRT TOTAL $_____***

***METHOD OF PAYMENT (CHECK ONE BOX)***

☐ CHECK ☐ PURCHASE ORDER

MAKE CHECKS PAYABLE TO WASHBURN UNIVERSITY

**TOTAL SUBMITTED $_____**

MAIL PAYMENT TO: KAS 2009
Chemistry Department, Washburn University
1700 SW College Ave., Topeka, KS 66621

Telephone: 785-670-2270 Fax Number: 785-670-1077 E-mail: KAS2009@lists.washburn.edu
http://www.KansasAcademyScience.org

**Cancellations and Refunds:** All cancellations and refunds must be made in writing to the address or e-mail address above. There will be no refunds after March 9, 2009.
**Notice of Accessibility:** The Kansas Academy of Science is committed to making programs accessible to people with disabilities. If you wish to volunteer information regarding any special assistance you may need, please contact the Chemistry Office at (785-670-2270)/
**Notice of Non-Discrimination:** Washburn University does not discriminate in its programs and activities on the basis of race, religion, color, sexual orientation, national origin, gender, age, or disability. The following person has been designated to handle inquiries regarding nondiscrimination policies: Director, Office of Equal Employment Opportunity, Washburn **University, 1700 SW College Ave., Topeka, KS 66621.**

KANSAS ACADEMY OF SCIENCE
ATTN: Pieter Berendsen
Kansas Geological Survey,
University of Kansas,
Lawrence, KS 66047

# ABSTRACT SUBMISSION

To submit an abstract, please download and complete the MS Word submission form. Send the completed form as an e-mail attachment to KAS2009@lists.washburn.edu with "Abstract Submission" in the e-mail subject line by **February 14, 2009**. Submission Form Link:
http://www.kansasacademyscience.org/meeting2009/KAS_Abstract_Form.doc

Abstracts can be no more than 250 words (excluding title, authors, departments, and affiliation) single-spaced. Indicate the presenter with an asterisk (*). Do not abbreviate department or institution names. Do not give the city, state, or zip code. Punctuate as shown in the example below. The title in ALL CAPITALS, with no abbreviations, should begin two spaces after the institution name.

> Abstract Example:
> *****Cook, N.H., E. Blackwell, A.D. Gasking, Department of Natural Sciences and Mathematics. Lincoln University. IN VITRO EFFECTS OF METHOXYETHYL CARBAMATE ON CHINESE HAMSTER FIBROBLASTS. Our previous studies have reveals the mutagenic potential of methoxyethyl carbamate.....

If the presenter is a student and is competing for an award, please include a number corresponding to the competition level after the student's name in the abstract:
(1) = B.S., (2) = M.S., (3) = Ph.D.
You may present a poster or oral paper. Posters are limited to 4'x 4'. Oral presentations are limited to 15-20 minutes. Indicate your need of a computer/PowerPoint, overhead projector, or neither. For PowerPoint users, bring your presentation on a CD or USB flash drive.

**Checklist of the Mushrooms of Schermerhorn Park, Cherokee County, Kansas**

**by**

**Hank Guarisco and Sherry Kay**

This preliminary checklist is the first contribution to an understanding of the diversity and extent of the mushroom flora of Schermerhorn Park, located adjacent to the city of Galena in Cherokee County, Kansas. The region in the extreme southeastern corner of the state is part of the Ozark Plateau and has a distinct flora and fauna, most of which occurs nowhere else in Kansas. Therefore, the authors decided to explore Schermerhorn Park for mushrooms which may not have previously been recorded from the state.

We arrived at the park on September 14, 2008, took notes and photographs of the mushrooms we encountered, then gathered representative specimens to obtain spore prints. The color of the spore print and examining the microscopic details of the spores under a microscope is often essential in making species determinations. The mushrooms were identified by the second author, who has been documenting the occurrence of mushrooms in Kansas for the past 25 years, and has identified mushrooms for the poison control center when people inadvertently consume poisonous mushrooms. Anyone interested in Kansas mushrooms should consult a copy of, "A Guide to Kansas Mushrooms," by Bruce Horn, Richard Kay and Dean Abel, which is available at University Press of Kansas.

A total of 81 species of mushrooms were found in Schermerhorn Park, four of which are new to Kansas. *Boletus curtisii*, a brilliant yellow mushroom with pores instead of gills, may reach its western extent in southeastern Kansas. It is much more commonly encountered in Missouri. The second new state record, *Clavulinopsis corniculata*, is a small, white, "coral" fungus – a group whose members resemble coral. We were delighted to find groups of brilliant purple mushrooms under sassafras trees. These were later identified as *Cortinarius iodioides*, also found in Kansas for the first time. The fourth new state record encountered that afternoon was *Lactarius atroviridis*, a somewhat stocky, gilled mushroom with a dark, dirty green-colored cap. Members of the genus *Lactarius* can be readily identified in the field by presence of milk sap which issues from the gills when they are bruised.

The following is a checklist of all the mushrooms we encountered in Schermerhorn Park on September 14, 2008. An asterisk indicates a new state record and a question mark indicates the identification lacks certainty.

1. Agaricus xanthodermus
2. Amanita flavoconia
3. Armillaria tabescens
4. Auricularia auricula
5. Boletus auriporus ?
6. Boletus curtisii*
7. Boletus subvelutipes ?
8. Boletus pallidosa
9. Calvatia craniformis
10. Calvatia cyathiformis
11. Calvatia rubro-flava
12. Cantharellus cibarius
13. Cantharellus lateritius
14. Clavulinopsis corniculata*
15. Clitocybe gibba
16. Clitocybe nuda
17. Clitocybe odora
18. Clitocybe tarda ?
19. Conocybe sp. ?
20. Coprinus sp.
21. Cortinarius iodioides
22. Cortinarius coloratus ?
41. Lactarius atroviridis*
42. Lactarius glaucenscens
43. Lactarius argillaceifolius
44. Lactarius volemus
45. Lactarius westii
46. Laetiporus cincinnatus
47. Leccinum griseum ?
48. Lepiota americana
49. Lepiota clypeolaria
50. Lepiota cristata
51. Lepiota rubrotincta
52. Lepiota seminuda
53. Lycoperdon echinatum
54. Lycoperdon perlatum
55. Lycoperdon umbrinum ?
56. Marasmius delectans
57. Marasmius siccus
58. Mutinus elegans
59. Mycena inclinata
60. Panus stipticus
61. Phlebia incarnata
62. Phellinus gilvus

23. Craterellus cornucopioides
24. Crepidotus mollis
25. Cyathus stercoreus
26. Cyathus strictus
27. Dacropinax spathularia
28. Dacromyces deliquescens
29. Entoloma sinuatum ?
30. Exidia glandulosa
31. Gloeoporus dichrous
32. Gymnopus luxurians
33. Gymnopus purpurinus
34. Hohenbuehelia petaloides ?
35. Hydnochaete olivaceus
36. Hydnum repandum
37. Hygrocybe punicea ?
38. Inocybe sp.
39. Inonotus dryadeus
40. Laccaria sp.
63. Pholiota polychroa
64. Pluteus longistriatus
65. Psathyrella sp.
66. Pycnoporus cinnibarinus
67. Rickenella fibula
68. Russula albonigra
69. Russula decolorans ?
70. Russula virescens
71. Russula sp.
72. Schizophyllum commune
73. Stereum complicatum
74. Stereum ostrea
75. Spongipellis pachydon
76. Thelepora palmata
77. Tremetes elegans
78. Tremetes versicolor
79. Tremella mesenterica
80. Trichaptum biformis
81. Vascellum pratense

**SCHERMERHORN PARK MUSHROOMS**

**New Kansas Record – Cortinarius iodioides**

**New Kansas Record – Boletus curtisii**

**Edible mushroom – Cantharellus cibarius**

**Spongipellis pachydon**

**Phlebia incarnata**

**Armillaria tabescens**

**Phellinus gilvus**

**Laetiporus cincinnatus**

**Stereum complicatum**

**Stinkhorn Mushroom - Mutinus elegans**

**Gymnopus luxurians**

**Lepiota cristata**

SCHERMERHORN CAVE
AND NATIVE
GRASSLAND TRAILS