



**Tilghman Hall**  
 Bayer Corporation  
 17745 South Metcalf  
 Stillwell, KS, 66085-9104

**Ozark-Prairie SETAC**  
**2000 Annual Meeting**

# Ozark-Prairie SETAC Newsletter

**Included in this  
 newsletter:**

**2000 Election Ballot  
 for Board of Directors**

**2000 & 2001 Regional  
 Meeting Information**

The Ozark-Prairie Regional Chapter of the Society of Environmental Toxicology and Chemistry (OP-SETAC) provides a forum for

scientists and students in the broad fields of Environmental Toxicology and Environmental Chemistry to exchange information pertinent to the Ozark-Prairie region, and offers assistance and support to students entering these professions.

Society of Environmental Toxicology  
 and Chemistry  
 Ozark-Prairie Chapter  
[http://www.waux.cerc.cr.usgs.gov/  
 opsetac/](http://www.waux.cerc.cr.usgs.gov/opsetac/)



## **ELECTION TIME:**

This newsletter contains a ballot for the election of new OP-SETAC board members. Please mark your ballot and return it to Tilghman Hall (her address is on the ballot). The ballot should be post-marked no later than January 10, 2001. You may also email your vote to her at: [tilghman.hall.b@bayer.com](mailto:tilghman.hall.b@bayer.com)



**Ozark-Prairie and South-Central SETAC  
 Come Together Again in 2001!**

Joint Meeting

Proposed Dates: May 17 - 19, 2001

Where: Stillwater, Oklahoma

More Information to be Provided In the Near Future



## **Current Board of Directors:**

President (2000): **Tilghman Hall** (Term: 1999-2001) Bayer Corp., Stillwell, KS, [tilghman.hall.b@bayer.com](mailto:tilghman.hall.b@bayer.com)

Vice President (President-elect, 2001): **David Janz** (Term: 2000-2002) Oklahoma State University, [djanz@okway.okstate.edu](mailto:djanz@okway.okstate.edu)

Ex Officio (past-President): **John Besser\*** (Term: 1997-2000) USGS Biological Resources Division, Columbia, MO, [john\\_besser@usgs.gov](mailto:john_besser@usgs.gov)

Treasurer: **Steve Hicks** (Term: 1999-2001) ABC Laboratories, Columbia, MO, [hickss@mo.abc-labs.com](mailto:hickss@mo.abc-labs.com)

Secretary: **Ellen L. Arthur\*** (Term: 1998-2000) Bayer Corporation, Stillwell, KS, [ellen.arthur.b@bayer.com](mailto:ellen.arthur.b@bayer.com)

## **At-large Members:**

**Jennifer Anhalt** (Term: 2000-2002) National Swine Research and Information Center, USDA-ARS, Ames, IA, [anhalt@nsric.ars.usda.gov](mailto:anhalt@nsric.ars.usda.gov)

**Robert Bringolf** (Student Representative) (Term: 2000-2002) Iowa State University, Ames, IA, [rbringo@iastate.edu](mailto:rbringo@iastate.edu)

**Shelley Gray\*\*** (Student Representative) (Term: 1999-2001) Southern Illinois University, Carbondale, IL,

**Alan Kolok** (Term: 2000-2002) University of Nebraska-Omaha, [alan\\_kolok@unomaha.edu](mailto:alan_kolok@unomaha.edu)

**Marcia K. Nelson\*** (Term: 1998-2000) USGS Biological Resources Division, Columbia, MO, [mnelson@ecrc.cr.usgs.gov](mailto:mnelson@ecrc.cr.usgs.gov)

\* Term expires 12/31/2000

\*\*Moved out of region

## **Board of Directors:**

Board members are nominated and elected by the general membership and serve three-year terms. Chapter officers are elected by the Board. Student members are encouraged to run for the Board. The Board meets three times a year: spring (chapter meeting), fall (national SETAC meeting), and winter.

## Regional OP-SETAC Meeting 2000 — Leavenworth, KS

The 2000 regional meeting was held at Leavenworth, KS, with great success. Much credit and thanks are due the folks at Saint Mary College, especially Dr. Jean Emerson, for helping to make everything run so smoothly and for providing such a great site and excellent facilities to hold our meeting.

The meeting began on Thursday, May 18, with an afternoon tour of the research facilities of Bayer Corporation in Stilwell, KS. In the evening, the activities at Saint Mary College began with a reception that included registration and poster setup. Poster and platform presentations took place on Friday morning. Congratulations to all contributors for the excellent work that they presented. Afternoon activities on Friday included a stop at Benedictine College, with a presentation to our group by Dr. Martin Simon on Benedictine Bottoms Missouri River Biodiversity Assessment Program. We were also able to view posters from research carried on a range of topics related to the Benedictine Bottoms. Dr. Daniel Bowen gave us a tour of the Benedictine Bottoms, and told us of mitigation efforts that were taking place. Benedictine Bottoms, previously an agricultural area, is part of the Missouri River Fish and Wildlife Mitigation Project aiming to restore riverine habitat. We are very appreciative of the efforts made by Dr. Bowen, Dr. Martin, and others at Benedictine College for their time and effort in contributing to our meeting. Following this stop, we proceeded to Fort Leavenworth to look at contrasting undisturbed river bottom habitat, with a tour by Dr. Jean Emerson. The traditional cook-out and volleyball game were held on Friday evening at the Oak Kiln on Saint Mary College campus. The culmination of the meeting was on Saturday morning with a plenary session and announcement of the winners of the student platform and poster presentation competitions. The Plenary session began with an update on National SETAC by Marcia Nelson, followed by a series of excellent presentations on Missouri River topics, riparian buffers, and ecological risk assessment topics. Many thanks to Robert Jacobson, Larry Shepard, Pete Coody, Bud Davis, and Robert Schulz for their fine presentations.

## CONGRATULATIONS TO POSTER COMPETITION WINNERS!

**First Place: Mozghan Savabieasfahani** for her poster on: Effects of Apoptogenic and Survival Factors on Ovarian Cell Apoptosis, HSP70 Expression, and Steroidogenesis in Cultured Fathead Minnow (*Pimephales promelas*) Follicles. Savabieasfahani, M., Janz, D. M., Oklahoma State University, Stillwater, OK



**Second Place: Sandra Brasfield** for her poster on Time course and dose-response relationships for vitellogenin induction in male Western Fence lizards (*Sceloporus occidentalis*) Exposed to Ethinylestradiol. Brasfield, S. M., Weber, L. P., Talent L. G., and Janz, D. M., Oklahoma State University, Stillwater, OK

**Third Place: Jennifer Anhalt** for her poster on Biodegradation of imidacloprid by a soil microorganism. J. C. Anhalt<sup>1</sup> and T. B. Moorman<sup>2</sup>. <sup>1</sup>Iowa State University, Department of Microbiology and <sup>2</sup>National Soil Tilth Laboratory, USDA-ARS, Ames, IA

## OP-SETAC T-Shirts

If you are interested in buying a T-shirt from the 2000 regional meeting, please send a check for \$6.00 (includes shipping and handling) to Tilghman Hall, Bayer Corporation, 17745 South Metcalf, Stilwell, KS 66085. Sizes available are: M, L, & XL. Colors: beige with green print or gray with blue print.

### T-Shirt Design:



## CONGRATULATIONS TO PLATFORM COMPETITION WINNERS!

**First Place: Leslie Johnson** for her presentation on: Tissue Specific Expression of HSP70 in Two Fish Species Inhabiting a Metal Contaminated Creek. Johnson, J. L., and Janz, D. M., Oklahoma State University, Department of Zoology, Stillwater, OK



**Second Place: Nate Davis** for his presentation on: Evaluating the Effects of Best Management Practices on Surface Water Quality at an Urban Golf Course. Davis, N. D., Lydy, M. J. Department of Biological Sciences, Wichita State University, Wichita, KS

**Third Place: Shaohan Zhao** for his presentation on: The influence of aging atrazine-treated soil on bioavailability of atrazine and survival of *Agrobacterium radiobacter* strain J14a. S. Zhao<sup>1</sup>, E. L. Arthur<sup>2</sup>, T. B. Moorman<sup>3</sup>, and J. R. Coats<sup>1</sup>. <sup>1</sup>Iowa State University, Ames, IA, <sup>2</sup>Bayer Corporation, Stilwell, KS, and <sup>3</sup>National Soil Tilth Laboratory, USDA-ARS, Ames, IA

First place poster & platform winners received support for travel to the national meeting in Nashville, TN, in November 2000.

## Thanks to Departing Board Members

**Shelley Gray**, a student member of the OP SETAC Board of Directors from Southern Illinois University, resigned this year as she moved on to new job in North Carolina. We say good-bye to Shelley and a farewell of sorts to three members of the board whose terms are coming to an end. We thank these Board members for their years of service and look forward to their continued active membership with the group.

**Ellen Arthur** (Bayer Corp.): Secretary & Newsletter 2000  
**John Besser** (USGS Columbia Environmental Research Center): Treasurer 1997, Vice President 1998, President 1999  
**Marcia Nelson** (USGS Columbia Environmental Research Center): Newsletter 1999 and years past

**Nominees for the OP-SETAC Board of Directors  
Election 2000**

**Tim Madsen**

Tim attended Central Methodist College in Fayette, Missouri, and graduated in May 1989 with a BA in Biology. Immediately after graduation, he joined ABC Laboratories, Inc., in Columbia, Missouri, and celebrated his eleven year anniversary this last May. He is currently working in the Ecotoxicology Services Division as a Research Scientist/Program Manager. He and his wife, Trana, along with their two daughters, Taylor and Allensen, enjoy the great outdoors (i.e., camping, hunting, fishing, hiking, etc.). In addition to his employment with ABC Laboratories, Inc., Tim has worked with Missouri Department of Conservation on ruffed grouse and whitetail deer projects this year. He is also a member North American Hunting Club and the Columbia Chapter of the National Audobon Society.

**Jeannie Roper Hayward**

Jeannie received BS and MS degrees in Biology from Virginia Tech, worked for 4 years as a Research Toxicologist with the US Army Engineer Corps at the Waterways Experiment Station in Vicksburg, MS, and is currently working in Columbia, MO, at the Columbia Environmental Research Center. Jeannie is a Ph.D candidate at the University of Missouri, School of Fisheries and Wildlife Sciences.

**Steven Levine**

Steve has been actively working as an aquatic toxicologist for more than ten years. The majority of Steve's research has focused on the biochemical regulation of xenobiotic metabolism, the influence of environmental and physiological factors on biotransformation, and pesticide-pesticide interactions. Recently, he has been involved in ecological risk assessments, with a focus on linking mechanisms of toxicity with ecologically relevant endpoints. Steve received his B.S. degrees in Conservation and Biology at the University of Wisconsin-Milwaukee and gained his initial experience in aquatic toxicology at the Center for Great Lakes Research. After graduation, he worked in the NIEHS Freshwater Biomedical Center, housed within the Center for Great Lakes Research, as a technical person. Steve left Milwaukee to gain M.S. and Ph.D. degrees in Zoology with Jim Oris at Miami University. Steve's last two years of research at Miami were supported with an EPA Doctoral Fellowship. After leaving Miami, Steve was a Postdoc in Gary Perdew's lab at Penn State's Center for Molecular Toxicology where he supported his research with NIEHS funding. Recently, Steve began working at the Monsanto Company in St. Louis as an Ecotoxicologist as well joining the OP-regional chapter. If elected, Steve is committed to playing an active role in the OP-regional SETAC Chapter as a member of the Board of Directors.

**Moira McKernan**

Moira is interested in being a student representative on the OPSETAC board. After receiving his BA in biology with a minor in chemistry in May 1999, he worked as a field tech for APHIS/Wildlife Services. In April of 2000 he was accepted to Southern Illinois University as a Masters degree of Dr. Richard Halbrook's. Moira is currently analyzing PCB and heavy metal contamination as well as biomarker responses in European Starling chicks at the Paducah Gaseous Diffusion Plant in Paducah, Kentucky.

**Dr. Tilghman Hall  
Bayer Corporation  
17745 South Metcalf  
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**BALLOT**

**OP-SETAC Board of Directors**

**(Vote for 4)**

**Voting Deadline: Postmarked Jan 10, 2001**

**Jeannie Roper Hayward**

**Steven Levine**

**Tim Madsen**

**Moira McKernan**

**Write-In Candidate**



**Trifold Ballot and mail to Tilghman Hall.  
If preferred, votes can be emailed to:  
tilghman.hall.b@bayer.com**

**Place  
Stamp  
Here**