

**Kansas Association  
of  
Biology Teachers**

Volume 39 Number 3 - September 1998

**Calendar & Activities**

Please mail, e-mail or phone meeting dates and other items of interest to biology teachers to John Wachholz, 2311 Applewood Lane, Salina, Kansas 67401-

**Date**

**Event**

September 19, 1998.....	KABT Fall Meeting – “Celebrate Citizen Science” Olathe East High School
October 9-11, 1998 .....	KOS Fall Meeting (50th Anniversary Meeting) - Lawrence.
November 4-7, 1998.....	NABT National Convention - Reno, Nevada
May 15, 1999.....	Spring Field Trip - Canoe Trip on KS River or Stream
September 18, 1999.....	Fall Meeting – Great Plains Nature Center, Wichita
October 27-30, 1999.....	NABT National Convention - Fort Worth, Texas
March 25–28, 1999 .....	NSTA National Convention - Boston
September 16, 2000.....	Sternberg Museum and Wildcat Canyon – Hays
May 13, 2000.....	Morton County Field Trip
Spring 2001 .....	Northeast KS Field Trip



Your membership **expiration date** can be found on your mailing label. All dues are now payable on September 1st of each year. If an envelope was enclosed with your newsletter your membership has expired. Please use the envelope to mail your dues and the other information requested. The membership list was last updated on **9/8/1998**. If you sent dues in after that date they had not been recorded before the list for mailing was printed.

Check Out The  
KABT Web Site  
<http://www.midkan.com/kabt>  
Send comments to:  
[jwachholz@midkan.com](mailto:jwachholz@midkan.com)  
NABT Web Site  
<http://www.nabt.org>



## Calling For Articles?

This has been a busy year for your editor and publisher. Looking over my computer files it seems that I have exhausted most of the material I have for a newsletter. What is really needed is more materials for publication from our membership. If you have any article or information for our newsletter please send it to me. Thanks in advance.

## Publishing Dates For Newsletter

The newsletter is published during the months of September, November, February and April. Manuscripts must reach the editor by the 15th day of the previous month. The KABT Newsletter includes abbreviated minutes of the official meetings, announcements of future activities, brief news notes, and other brief items of interest to biology teachers. Send your contributions to John Wachholz, Editor, 2311 Applewood Lane, Salina, KS 67401 (913) 825-7742. You may send you information for the newsletter to [jwachholz@midkan.com](mailto:jwachholz@midkan.com).

## Newsletter & Journal Information Needed

Articles are needed for the newsletter. Please help with the newsletter. The most helpful occurrence would be for all individuals to send information to the newsletter. Send it via internet to [jwachholz@midkan.com](mailto:jwachholz@midkan.com) or on a disk. If you send it on a disk, any format is acceptable. Your help is appreciated. (PC, Mac, Apple - just send it!) Articles for the Kansas Biology Teacher should be sent to John Richard Schrock, editor KBT, Division of Biology, Box 50, Emporia State University, Emporia, KS 66801-5087. Keep your dues up to date so you will continue to receive the Kansas Biology Teacher.

## Outstanding Biology Student Certificates

These are available for students who you feel have completed a biology course under you and have shown outstanding achievement. We have just updated our supply. Send your name and address to KABT Student Certificates, 2311 Applewood Lane, Salina, KS 67401-3707.

Please use these certificates as valuable awards for outstanding students.

## NABT Contact Information

**Address:** ..... 11250 Roger Bacon Drive #19  
Reston, VA 22090-5202

**Web Site:**..... <http://www.nabt.org>

**Phones:** ..... 703-471-1134; 800-406-0775

**Fax:** ..... 703-435-5582

**E-mail:** ..... [NABTer@aol.com](mailto:NABTer@aol.com)

## JOHN HARCLERODE NAMED 1998 KANSAS

### KABT Web Site

[http://www.midkan.com/  
kabt](http://www.midkan.com/kabt)

John Wachholz, Web Master

## OUTSTANDING BIOLOGY TEACHER

The National Association of Biology Teachers, in conjunction with Prentice Hall is pleased to present John Harclerode with the 1998 Outstanding Biology Teacher Award. This honor, given annually since 1961, identifies a teacher from each of the fifty states, its possessions, Puerto Rico, and Canada who have made valuable contributions to the profession and their students. Criteria for the award include teaching ability, experience, inventiveness, initiative, inherent teaching strengths, and cooperativeness in the school and community. John will be recognized at the NABT National Convention in Reno, Nevada, November 4-7.

John Harclerode is a biology teacher at Emporia High School in Emporia, Kansas. Harclerode received both his B.S. and M.S. from Emporia State University. He has been teaching in Emporia, Kansas for the past 24 years. John has continued his education through course-work at Emporia State University.

John is committed to providing a quality education for his students. Harclerode says "As educators, we have a huge responsibility not only to our students, but also to their parents. We must demonstrate the highest standards when it comes to our actions and words." He is committed to believe that the students must investigate new areas that will help prepare them to live in an ever changing, technological society. Harclerode continues "I'm there to guide the students through the material being studied and to help them understand that what they are learning does not stand alone."

John offers a wide variety of experiences to encourage development of left brain/right brain. Students are encouraged to develop their study, listening, questioning, and testing skills.

Harclerode has initiated and developed a small animal lending program for elementary schools. Teachers request animals to keep in their classrooms for an established period of time. This helps teachers that did not or could not keep the animals for long term study. John also gives talks on subjects relating to the topic being studied.

John developed a very successful summer biology program that involves students in a two-week extensive field trip to other areas of ecological importance. "The integrated curriculum combines history, biology, geology, astronomy, fitness, writing, environmental studies, orienteering and camping. A colleague said, "John has a great love for science and the natural world, and a gift for conveying knowledge and wonder. John Harclerode truly deserves the appellation Outstanding Biology Teacher."

### KABT Fall Meeting, Sept. 19, 1998

Olathe East High School, 14545 W. 127th St.,  
Olathe, KS 66062

## Biology As An Avocation Celebrating Citizen Science

This conference introduces teachers and students to local citizen scientists-- people who generally make a living at something else but do biology as an avocation. These folks all share a passion for biology and can pro-

vide inspiration for teacher and students as they share their enthusiasm for science.

Increasingly, modern conservation biology and systematics must rely on the skills and efforts of citizen (amateur) science. With a little skill, a lot of sweat and the discipline to do the job right, teachers and students can be valuable contributors in a number fields of biology. This conference, hopefully, will inspire many to take up biology for an avocation.

The conference will begin with a keynote address by Chip Taylor, co-founder of the Monarch Watch. This will be followed by 5 concurrent sessions of approximately 45 minutes.

### Schedule

8:30-9:30 Welcome, Introductions and General Session: Chip Taylor

9:45-10:30 First concurrent session (3 sessions)

TBA, Birds, Tardigrades

10:45-11:30 Second concurrent session (3 sessions)

Leps, Odonata, Fossils

11:45-12:30 Third concurrent session (3 sessions)

TBA, Odonata, Mussels

12:30-1:45 Lunch

1:45-2:30 Fourth concurrent session (3 sessions)

TBA, Fossils, Tardigrades

2:45-3:30 Fifth concurrent session (3 sessions)

Leps, TBA, Mussels

If you have questions contact:

Brad Williamson  
Olathe East High School  
14545 W. 127th  
Olathe, KS 66061  
bwilliam@sound.net  
913-780-7120

### Registration

We ask that you pre-register. Each session will be presented twice (except for Ornithology). Please rank your top three choices from the following session topics:

Odonata Study  
Amateur Paleontology  
Amateur Ornithology  
Lepidoptera Study  
Freshwater Mussels  
Tardigrades

Each teacher is encouraged to bring two students. We ask that each teacher accompany their students.

### Presenters

Roy Beckemeyer.

Roy studies Odonata, dragonflies and damselflies, and has co-authored two Ks School Naturalists. He is also currently serving as president of KOS. Roy is from Wichita.

Karen Couch.

Karen is a local artist and has a passion for freshwater mussels. She is the author of "Uniod Mussels in Kansas." Karen is from Olathe.

Mike Everhart.

Like the Sternbergs, Mike enjoys the pursuit of fossils in the Cretaceous beds of western KS. He's authored a publication on KS Fossils. Mike is from Derby.

Ron and Cathy Huber.

Ron and Cathy are members of the local lepidopterist group, The Idalia Society. They are currently compiling the butterflies of the Konza prairie and also share a passion for tiger beetles. They are from Shawnee Mission.

Randy Miller.

Randy has made a number of presentations to KanCRN about his passion, Tardigrades. He's looking for student collaboration. He recently discovered a new species of Tardigrade and is waiting for a student to discover it so they can co-author a paper. He is from Arkansas City.

John Schukman.

John is a former teacher who has a passion for birds. From Leavenworth, he has been surveying and censussing the Leavenworth Bottoms for a number of years documenting Cerulean warbler nesting.

Orley Taylor.

Chip is our keynote speaker and co-founder of the Monarch Watch. Chip is dedicated to providing opportunities and mentoring for prospective, young scientists. He has several research challenges for teachers and students.

Registration fees: \$10.00 teacher  
\$5.00 student

Send Registration by Sept. 15 to:

John Wachholz, KABT Treasurer  
2311 Applewood Lane  
Salina, KS 67401-3707

**Registration Form is on the next page.**

Registration – KABT Fall Conference

## Biology As An Avocation - Celebrating Citizen Science

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

First session choice: \_\_\_\_\_

Second session choice: \_\_\_\_\_

Third session choice: \_\_\_\_\_

### USFWS ECONOMIC STUDY SHOWS WILDLIFE WATCHING IS BIG BUSINESS

6/10/98

Wildlife watching has flown out of the backyard bird feeder and into the Fortune 500 arena, according to a new report by the U.S. Fish and Wildlife Service.

Americans spent \$29.2 billion to observe, feed, and photograph wildlife in the United States, according to the report, "1996 National and State Economic Impacts of Wildlife Watching." If wildlife-watching were a Fortune 500 company in 1996, it would have ranked 23rd.

"Sales of seemingly small items such as binoculars and bird seed are becoming a major force in the Nation's economy as people take a greater interest in watching wildlife," said Service Director Jamie Rappaport Clark. "The total industry output for wildlife watching--the overall economic 'ripple effect' of the \$29.2 billion Americans spent in 1996--is an impressive \$85.4 billion." For many local communities, the economic potential of their wildlife-watching opportunities still may be unrealized. This report shows that nationally and locally, investments in wildlife and wild places are investments in this country's natural resource legacy, and in its economic future.

According to the report, wildlife watching creates more than 1 million jobs, contributes \$24.2 billion in employment income, and generates \$323.5 million in state income tax and \$3.8 billion in Federal income tax. Wildlife watching also produces \$1.04 billion in state sales tax. In addition, spending by wildlife watchers increased by 21 percent since 1991, when the figures are adjusted for inflation.

Three types of expenditures are detailed in the report. Expenditures for equipment and related items, such as binoculars, cameras, wild bird food, membership in wildlife organizations, camping equipment, and motor homes, accounts for 57 percent of total spending. Trip-related expenditures, such as for food, lodging, and transportation, constitute 32 percent of total spending by wildlife watchers. Other items, such as books, magazines, contributions, and

land-leasing, make up 11 percent of wildlife watchers' spending. Wildlife watchers are identified in the report as people whose principal motivation for spending or traveling is wildlife watching

Nearly 63 million people age 16 and older--31 percent of the U.S. population--were wildlife watchers in 1996, according to the report. The report is based on the Service's "1996 National Survey of Fishing, Hunting and Wildlife-Associated Recreation," which is conducted every 5 years by the U.S. Census Bureau. The survey, based on more than 34,000 interviews with anglers, hunters, and wildlife watchers, is the most comprehensive survey of wildlife-related recreation in the United States.

Copies of the report, "1996 National and State Economic Impacts of Wildlife Watching," and the "1996 National Survey of Fishing, Hunting and Wildlife-Associated Recreation" are available by calling the U.S. Fish and Wildlife Service's publications unit at 304-876-7203.

The U.S. Fish and Wildlife Service is the principal Federal agency responsible for conserving, protecting, and enhancing fish and wildlife and their habitats for the continuing benefit of the American people. The Service's almost 93 million acres include 514 national wildlife refuges, 78 ecological services field stations, 65 national fish hatcheries, 50 wildlife coordination areas, and 38 wetland management districts with waterfowl production areas.

The agency enforces Federal wildlife laws, manages migratory bird populations, restores nationally significant fisheries, conserves and restores wildlife habitat such as wetlands, administers the Endangered Species Act, and helps foreign governments with their conservation efforts. It also oversees the Federal Aid program that distributes Federal excise taxes on fishing and hunting equipment to state wildlife agencies. This program is a cornerstone of the Nation's wildlife management efforts, funding fish and wildlife restoration, boating access, hunter education, shooting ranges, and related projects across America.

-FWS-

# The Kansas Association of Biology Teachers Officers - Representatives - Board Members

## President

Terry Callender  
15960 Snodgrass  
Wamego, KS 66547  
(785) 456-7924  
Wamego High School  
801 Lincoln  
Wamego, KS 66547  
(785) 456-2214 Ext. 123  
FAX (785) 456-8125

## President Elect

Lisa Volland  
2609 SW Morningside Dr  
Topeka, KS 66614  
(785) 273-1810  
Topeka West High School  
2001 SW Fairlawn  
Topeka, KS 66604  
(785) 271-3529

## Vice-President

Justin Wood  
2728 Bluestem Ct  
Lawrence, KS 66047  
(785) 838-9606  
Southwest Junior High School  
2500 Inverness Dr.  
Lawrence, KS 66047  
(785) 832-5550

## Past President

Steven B. Case  
University of Kansas  
SC-RETC  
2021 Dole Center  
Lawrence, KS 66045  
(785) 864-4471  
FAX (785) 864-0704  
(785) 832-1629 Home  
scase@busboy.sped.ukans.edu

## Treasurer and Newsletter Editor

John Wachholz  
2311 Applewood Lane  
Salina, KS 67401-3707  
(785) 825-7742  
Salina High School Central  
650 E. Crawford Street  
Salina, KS 67401-5119  
(785) 826-4751  
FAX (785) 826-4740  
jwachholz@midkan.com

## Secretary

Harry McDonald

11917 W 143<sup>rd</sup>  
Olathe, KS 66062  
(913) 897-9630  
Blue Valley High School  
6001 W. 159th Street  
Stilwell, KS 66085  
(913) 681-4200

## Region 1 Representative

Ernie L. Brown  
825 Main  
WaKeeney, KS 67672  
(785) 743-2972  
Trego Community High School  
1200 Russell Avenue  
WaKeeney, KS 67672  
(785) 743-2061  
FAX (785) 743-2449  
ebrown@ruraltel.net

## Region 2 Representative

Pat Lamb  
3014 Sunnyside  
Manhattan, KS 66502  
(785) 776-1438  
Manhattan High School  
2100 Poyntz  
Manhattan, KS 66502  
(785) 587-2100 Ext. 802

## Region 3 Representative

John Tollefsen  
24015 Loring Road  
Lawrence, KS 66044  
(785) 749-3280  
Highland Park High School  
2424 California Avenue  
Topeka, KS 66605  
(785) 266-7616  
jtollfsn@falcon.cc.ukans.edu

## Region 4 Representative

Todd Carter  
Box 346  
Forgan, OK 73938  
(405) 487-3547  
Seward County Community Col-  
lege  
Box 1137  
Liberal, KS 67905-1137  
(316) 629-2643  
FAX (316) 629-2725  
tcarter@sccc.sccc.cc.ks.us

## Region 5 Representative

Tyson Yager  
1116 Prairie Park  
Wichita, KS 67218-3520

(316) 652-0398  
Wichita East High School  
2301 E. Douglas  
Wichita, KS 67211  
(316) 833-7012

## Region 6 Representative

John Culvahouse  
1707 S. Eddy  
Fort Scott, Ks 66701  
(316) 223-0837  
Fort Scott High School  
1005 South Main  
Fort Scott, KS 66701  
(316) 223-0600

## Representative At Large Vacant

## Representative At Large Vacant

## KACEE Representative

Pat Wakeman  
24549 Sandusky Rd.  
Tonganoxie, KS 66086  
(913) 845-3208  
Tonganoxie High School  
Box 179 24-40 Highway  
Tonganoxie, KS 66086  
(913) 845-2654  
FAX (913) 845-3716  
pwakeman@nehub.nekesc.k12.  
ks.us

## Journal Editor

John Richard Schrock  
1101 W. 18th Avenue  
Emporia, KS 66801  
(316) 342-3879  
Emporia State University  
Division of Biology  
Box 4050  
Emporia, Ks 66801

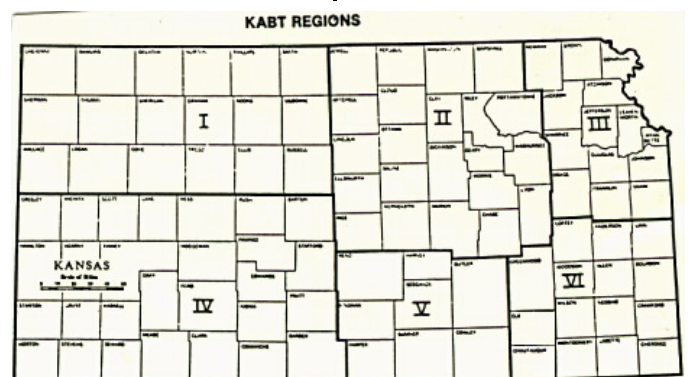
(316) 341-5614  
FAX (316) 341-5997  
ksnatur1@esumail.emporia.edu

## NABT Representative

Brad Williamson  
Olathe East High School  
14545 W. 127th Street  
Olathe, KS 66062  
(913) 780-7120  
(913) 780-7137 FAX  
bwilliam@sound.net

## KABT Historian

Stan Roth  
532 Oklahoma St.  
Lawrence, KS 66046  
(785) 843-4764  
Lawrence Free State H.S.  
4700 Overland Dr.  
Lawrence, KS 66049  
(785) 832-6050 X7218  
(785-832-6099 FAX  
jroth@ukans.edu



“Riding this bike will help you feel better.  
I do know that. Biking is movement,  
movement created by you the cyclist, real  
movement through real space. When you  
ride a bike, you feel as if you’re pulling  
the landscape through your lungs.”

“Working Parts”  
Lucy Jane Bledsoe



KABT Membership Application - Renewal - Form

Name: \_\_\_\_\_  
(Mr.-Mrs.-Ms.-Dr.-Miss) First Name Last Name

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_

School/Institution: \_\_\_\_\_

Position: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_

Phone: Work (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Home: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_ Internet Address: \_\_\_\_\_ @ \_\_\_\_\_

Enclosed Dues For KABT \$10.00 / Year - Life Membership Available For \$200  
National Association of Biology Teacher Dues: \$48.00 / Year  
Yearly Due Date is September 1st. - Make Check Payable To KABT - Tax ID #: 48-0945206

Send Dues & Information To:  
Kansas Association of Biology Teachers  
John Wachholz, Treasurer  
2311 Applewood Lane  
Salina, KS 67401 - 3707