

TGA News

The Newsletter of the Tennessee Geographic Alliance

Volume XVIII, Issue 2, Winter/Spring 2004

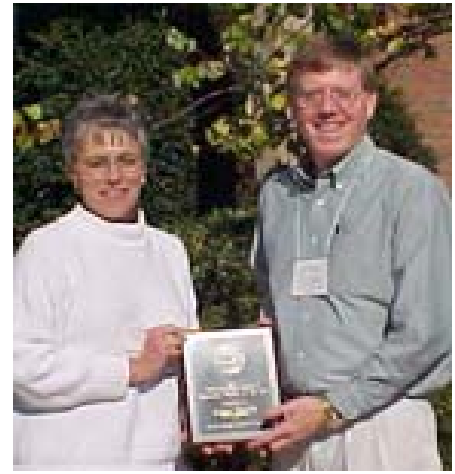
Beverly and Mullane Teacher of the Year Awards Presented at Geofest

Tennessee Geographic Alliance members Betty Hawkins, first grade teacher at Cascade Elementary School in Wartrace, and Susan Gratz, Computer Science Teacher at Morristown West High School received the Lottie and Alden Beverly Geography Teacher of the Year Award and the Tom and Stella Mullane Geography Teacher of the Year Award respectively at the Geofest 2003. The awards were presented by Dr. Bruce Ralston, Head of the Geography Department at the University of Tennessee, and by Kurt Butefish, Coordinator of the Tennessee Geographic Alliance. Each recipient was presented a plaque and \$500 check from the Alliance. The Beverly award is bestowed for excellence in geography education for grades K-6. The Mullane award is bestowed for grades 7-12. Nominations were accepted from the teacher's peers.

The awards were established as the result of donations by a generous benefactor at the University of Tennessee, Knoxville. They are named after two dedicated K-12 educators. Thomas Mullane taught high school in northern New Jersey and was routinely voted the outstanding teacher at his school. He won national level awards for his development of curricular materials. His colleagues and student held him in high regard and his students went on to excel in college.

Alden Beverly was a lifelong teacher and administrator in the Westchester County, NY school system. He served as a teacher, assistant principal, and principal of schools in that area. He was genuinely interested in the health and development of public education.

Both Mr. Beverly and Mr. Mullane are now retired, but they continue to take a keen interest in the status of public education in the United States.



Susan Gratz, Computer Science Teacher at Morristown West High School was presented the 2003 Tom and Stella Mullane Geography Teacher of the Year Award by Kurt Butefish, TN Geographic Alliance Coordinator. The award for excellence in geography education for grades 7-12 came with a plaque and \$500 check.



Betty Hawkins, first grade teacher at Cascade elementary School in Wartrace, TN, was presented the 2003 Lottie and Alden Beverly Geography Teacher of the Year Award by Dr. Bruce Ralston, Head of the Geography Department at UT (left) and Kurt Butefish, TN Geographic Alliance Coordinator. The award for excellence in geography education for grades K-6 came with a plaque and \$500 check.



Tennessee Geographic Alliance
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The University of Tennessee
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Susan Tolson
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Tennessee Geographic Alliance Spring Programs

TO CONTACT or JOIN THE ALLIANCE

Want to join the Tennessee Geographic Alliance?
Want to get on our electronic email list service?
You can do it all on-line by visiting the Alliance
website at <http://web.utk.edu/~tga/> . You can
also contact:

Kurt Butefish
Tennessee Geographic Alliance
304 Burchfiel Geography Building
University of Tennessee
Knoxville, TN 37996-0925
(voice) 865-974-4841

Knoxville Chapter Spring Program

Date: Thursday, February 26, 2004
Time: Registration 4:15 – 4:45, Meeting at 4:45 PM
Location: Crest Room, 2nd Floor, University Center
on UT Campus
Program: "Southern Appalachian Folk Culture"
with author and columnist Sam Venable and
Dr. John Rehder
Contact: Kurt Butefish at kbutefis@utk.edu or
(865) 974-4841
No pre-registration is required. Come for great
teaching activities, in-service credit, free food, fun,
friends, and door prizes.

Nashville Chapter Spring Program

Date: Thursday, March 11, 2004
Time: 4:30 - 6:00 pm
Location: Randalls Learning Center
3501 Byron Ave., Nashville
Program: "It's TCAP Time in Tennessee!"
Contact: Catherine Kelly at cgkelly@comcast.net
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.

Murfreesboro Chapter Spring Program

Date: Thursday, February 5, 2004
Time: 4:00 – 6:00 pm
Location: Erma Siegel Elementary School,
Murfreesboro
Program: "Hispanic Children in the Classroom:
Everyday Suggestions for Success" with Ms.
Sandra Watts
Contact: Carolyn Anderson at
madras98@bellsouth.net or (615) 904-1002.
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.

Northeast TN Chapter Spring Program

Date: Tuesday, March 2, 2004
Time: 4:30- 6:00 pm
Program: "Meteorology for the Classroom" with
Knoxville television meteorologist Matthew
Miller
Location: Indian Trail Middle School, 307 Carmol
Drive, Johnson City, TN
Contact: Cherie Chapman Phillips at (423) 610-
6000 or hape1511@aol.com
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.

Gallatin Chapter Spring Program

Date: Thursday, March 18, 2004
Time: 4:00 – 7:00 pm
Program: TBD
Location: Sumner County Teachers' Center
695 East Main St., Gallatin
Contact: Call (615) 451-5228 to reserve a spot.
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.

Memphis Chapter Spring Program

Date: Tuesday, March 23, 2004
Time: 4:00 – 6:00 pm
Program: TBD
Location: Executive Board Room, Shelby County
Board of Education
Contact: Jason Evaniuck, sincere@excite.com
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.

Chattanooga Chapter Spring Program

Date: Tuesday, April 20, 2004
Time: 5:00 – 6:30 pm
Location: Library of Chattanooga High School
Center for Creative Arts
1301 Dallas Rd., Chattanooga
Program: "Meteorology for the Classroom" with
Knoxville television meteorologist Matthew
Miller
Contact: Ken Collins at Collins_k@HCDE.org
Come for great teaching activities, in-service credit,
free food, fun, friends, and door prizes.



Things You Might Not Have Known

I received some interesting questions via email from one of our members this fall. I forwarded them on to Dr. Ken Orvis, Associate Professor of Geography here in the Department at UT. His answers were so enlightening that I wish to share them with our readers. Thanks go to Dr. Orvis and also to Dr. Sally Horn for her contribution to the responses. [Kurt ButeFish, Coordinator, Tennessee Geographic Alliance]

1. If trade winds and ocean currents rotate clockwise in the 0s-30s latitude belt, why do hurricanes appear to rotate counterclockwise?

You're right, the oceanic gyres, driven primarily by the westerlies at midlatitudes and the trade winds in the tropics, rotate clockwise in the northern hemisphere and counterclockwise in the southern hemisphere. If you examine hurricane TRACKS, you'll notice they follow the same pattern, to a degree (the ocean responds very slowly to the atmosphere, but hurricanes are pushed around by the surrounding weather of the moment, and by the fact that they grow on the side with the most warm water, so their courses can be erratic).

But a hurricane itself is just a powerful low-pressure system of the tropical variety. As such, it consists of air rushing inwards, rising up (eventually, after a complicated dance), and spreading out again at the top of the troposphere. Because the Coriolis force deflects moving air to the right in the northern hemisphere, the inrushing air turns to its right no matter which direction it comes from. If you draw a sketch map, you'll soon see that that deflection results in a counter-clockwise rotation for the hurricane as a whole. At the top of the troposphere the spreading air also turns to its right, resulting in a clockwise rotational aloft. (If you watch satellite "movies" of hurricanes you can often see both rotations going on at once, as shown by the motions of clouds at different heights.)

In the southern hemisphere, tropical storms rotate the other way.

2. If the equinox has 12 hours of daylight and 12 hours of night time, why does the daily paper not show sunrise at X a.m. and sunset at X p.m.? I was going to wow and amaze my students by showing them the [Clarksville, TN] morning paper on the day of the equinox, and the rise and set times were not the same. I believe they were off by about ten minutes or more.

This one has three answers.

First: Sunrise and sunset are continuous events, i.e. if you are standing in Clarksville watching the sunrise and talking on the phone with someone in Amarillo, Texas, and you both looked at the clock, your two clocks would say the same time, because you're both in the Central Time Zone. But Amarillo is more than 14 degrees of longitude to the west of Clarksville, so your friend would have to wait about 57 minutes and 32 seconds before he or she saw the sun rise. It takes that long for the earth to turn that far. The newspaper gives sunrise and sunset in the official local time, but every time zone is synchronized (on average) with the sun only along one particular meridian line. For your time zone that line is 90 degrees west longitude, which goes right through Memphis. Clarksville's true local time, by the stars, is about 10 minutes and 20 seconds earlier than Central Standard Time.

Second, of course watch out for daylight savings time! During daylight savings time we pretend we actually live in the next time zone to the east. That zone for Clarksville is synchronized with 75 degrees west longitude—a meridian that runs a little east of Cape Hatteras.

Third, there is the adjustment represented by the Equation of Time, which is represented graphically by the Analemma. The Earth's path around the sun is an ellipse rather than a circle. In January the Earth is closest to the sun and is swinging very quickly around it, and in July the Earth is farthest from the sun and is moving slowly. That means that the Earth has to turn a little farther in January before the sun reaches the same place in the sky, than it does in July. The little bits add up, so at some times of the year the sun ends up as much as 15 minutes out of synchrony with the Earth's rotation, but we humans want our "days" to be the same length, so we just make them all 24 hours regardless. At autumn equinox (September 23 this year), the sun was about 7 minutes and 30 seconds off.

When you add the various effects of all these things up, you get the peculiar results you see printed in the paper (assuming they did it right).

3. If earth's rotation causes the trade winds to bend toward the southwest, why are the westerlies not bent to the northwest?

The trade winds are caused by pressure differences between the tropics and the equator—the air is trying to go straight south (northern hemisphere) or straight north (southern hemisphere). Moving along the pressure gradient, it gets acted upon by the Coriolis force and "bent" the way you say, and in many places blows reliably in a straight line for hundreds or even thousands of miles. In fact that

continued on page 6.....

The Tennessee Geographic Alliance and The Department of Geosciences at MTSU

Offer a Workshop on

MEXICO CITY: A WINDOW INTO THE CULTURE AND POPULATION OF MEXICO

Dates of Workshop: July 7-15, 2004

Place of Workshop: Middle Tennessee State University and Mexico City, Mexico.

Persons Eligible to Apply: Any in-service teacher in Tennessee or current Tennessee Geographic Alliance member may apply for the workshop.

Number of Participants: 15 participants will be selected for the workshop.

Deadline for Applications: Deadline is May 3, 2004. You will be notified shortly thereafter if you have been selected to participate.

Who Should Attend the Workshop: Teachers who are interested in population and culture dynamics and the impact of the Latin world on the United States. Per international regulations, participants MUST have a passport valid through January, 2005 before the workshop begins.

Benefits: The Tennessee Geographic Alliance will provide: a) double occupancy on-campus housing for non-commuters while at MTSU; b) all required materials; c) the cost of Continuing Education Units (CEUs) for those requesting them.

Fees: The Alliance will cover all workshop costs (including airfare, hotel and ground transportation in Mexico City) except for a \$300 co-pay from each participant, all food during the workshop and spending money in Mexico City. A \$100 deposit is required with your application (refundable ONLY if you are not accepted to the workshop). The balance of \$200 must be submitted within 14 days after you have been notified you have been accepted.

Tuition and Course Credit: Participants may take the workshop for three hours undergraduate or graduate credit through MTSU. Cost for credit is \$792 for graduate credit and \$537 for undergraduate credit. There is a \$15 non-refundable application fee for first time enrollees.

Workshop Content: This 8½-day workshop will explore some of the most important and interesting issues of population dynamics and the related cultural and physical aspects of Mexico City. Dr. Ralph Fullerton, Professor Emeritus, Geography who has conducted field experiences to Mexico for the past 40 years will direct the workshop. It will begin with an afternoon orientation at Middle Tennessee State University that will cover cultural sensitivity, customs, and travel requirements. On the second day, the group will fly to Mexico City. During the four-day stay, we will explore and study firsthand many aspects of the population of the region, including past and future growth, related problems and potential solutions, and aspects of urban geography including urban sprawl, transportation, and settlement patterns. We are requesting audience with various government officials to discuss local and national issues facing Mexico and Mexico City. If successfully arranged, the group will be able to examine these issues in detail with the decision makers responsible for developing appropriate solutions. The last three days of the workshop will be spent at MTSU developing and presenting projects inspired by the field experience.

The workshop is designed to help participating teachers prepare for the human and regional geography portions of the Geography Praxis Exam, and will generate innovative classroom activities. Last, but not least, participants will broaden their understanding and appreciation of Latin America and the global community.

Workshop Faculty: Dr. Ralph Fullerton, Professor Emeritus of Geography, Dr. Jim Henry, Professor of Geography, Carolyn Anderson, teacher and Harry Anderson, teacher.

Where to Submit Application: Mail your application, with a \$100 deposit (refundable ONLY if you are not accepted to participate) to: Kurt Butefish, 304 Burchfiel Geography Building, University of Tennessee, Knoxville, TN 37996-0925. FAX: 865-974-6025; email: kbutefis@utk.edu

The Tennessee Geographic Alliance and
The Department of Geosciences at MTSU

Offer a Workshop on

MEXICO CITY: A WINDOW INTO THE CULTURE
AND POPULATION OF MEXICO

July 7 – 15, 2004

At Middle Tennessee State University and Mexico City, Mexico

APPLICANTS SHOULD SUBMIT A \$100.00 DEPOSIT, REFUNDABLE ONLY IF
YOU ARE NOT ACCEPTED TO THE WORKSHOP.

[A \$200 balance will be due 14 days after notification you have been accepted to the workshop. An immediate refund of
the \$100 deposit will be made if you are not selected to participate.]

+++++

Your Name _____

Home Address _____

Street and No. City State Zip

School Name and Address _____

Grade Level That You Teach _____; Subject(s) Taught _____

Home Phone _____ - _____ - _____; Work Phone _____ - _____ - _____;

E-Mail Address _____

AGREEMENT: If accepted for the workshop, I agree to offer two in-service workshops to colleagues during
2004-2005 academic year, on a subject related to the content of the workshop, or to perform an equivalent service
on behalf of the Tennessee Geographic Alliance and its programs and purposes.

_____/_____
Signature Date

ON THE BACK OR ON A SEPARATE SHEET OF PAPER, BRIEFLY STATE WHY YOU WISH TO
ATTEND THE WORKSHOP. INCLUDE A STATEMENT ABOUT THE AREA(S) OF LATIN CULTURE
THAT INTEREST YOU AND HOW THIS EXPERIENCE WILL BE INCORPORATED INTO YOUR
CLASSROOM INSTRUCTION.

Please rate your Spanish language proficiency from 0 – 5 with zero being no proficiency and five being
fluent. Circle one: 0 1 2 3 4 5

***** Per international regulations, participants MUST have a passport valid
through January, 2005 before the workshop begins. *****

PLEASE RETURN THIS APPLICATION, WITH A \$100 DEPOSIT, NOT LATER THAN MAY 3, 2004, TO:
Kurt Butefish, 304 Burchfiel Geography Building, University Of Tennessee, Knoxville, TN 37996-0925

Things You Might Not Have Known cont.

reliability, which was great for trade in the days of sailing ships, gave them their name! But the westerlies are different. Ultimately, they are also caused by pressure differences, this time between the tropics and the polar front. But if that was the whole story—the air trying to blow straight north (northern hemisphere) or straight south (southern hemisphere)—it would get acted upon by the Coriolis force just like the trade winds and “bent” somewhat. We would have the “southwesterlies” in the northern hemisphere and the “northwesterlies” in the southern hemisphere. A very few places are a little like that, but at no place is there a steady wind like the trade winds. In the midlatitudes it’s all more mixed up by fronts and lows and highs and things. In some regions the average flow may be more from the southwest, or even the northwest—but we name the westerlies by the places where the name just happens to fit, i.e. on average the flow is straight out of the west pretty much. The average represents all the winds of all the fronts and pressure systems that pass by.



Building a Toolbox of Skills Project Contributes to ATBI

By Kurt Butefish

In its second year, the Building a Toolbox of Skills: Immersing Teachers and Students in Experiential Learning project saw activity increase significantly in the Great Smoky Mountains National Park. The Tennessee Geographic Alliance teamed up with the Great Smoky Mountains Institute at Tremont, UT’s Math and Science Regional Center (MSRC), Discover Life in America (DLIA) and the North Carolina Geographic Alliance to give 44 MSRC students and 43 teachers from North Carolina and Tennessee an opportunity to do field research with scientists from the University of Tennessee Geography Department, DLIA, and the Great Smoky Mountains National Park. The project is supported in part through a \$59,837 Grosvenor Grant that the National Geographic Education Foundation awarded the Tennessee Geographic Alliance.

Using the Park as a laboratory, students and scientific mentors participated in the All Taxa Biodiversity Inventory (ATBI). The students, who were participants in the MSRC six-week residential program at UT, learned scientific methods for gathering data on plants and animals, including using global

positioning satellite systems. On Saturday, June 28th, the 44 students, plus teachers, scientists, and volunteers met at Sugarlands in the Great Smoky Mountains to do a trail-based inventory of snails, fungi and salamanders. All species found along the specifically designated trails in the Cosby, Greenbrier and Clingmans Dome areas of the Park were noted and data recorded. Students then input the data into geographic information systems databases and produced distribution maps of the flora and fauna they inventoried. As a result of their work, the young people took away an understanding of scientific and research processes and contributed directly to this important scientific program.



High School Science Consortium Offered at Tremont

September 17-19, 2004

You are back in front of your biology class Monday morning and all of your students are talking about science, for a change! They swap weekend stories of finding salamanders and identifying insects and flip through their field notes to remember the name of that bizarre flower they saw. They’ve just spent the weekend at Tremont’s High School Science Consortium, three days of research and action-packed science adventures. Join other high school teachers and students at Great Smoky Mountains Institute at Tremont to conduct real research in the Great Smoky Mountains National Park. Your students might even find a new species for the All Taxa Biodiversity Inventory! This opportunity is a great option for small school groups, such as ecology clubs.

The program lasts from Friday supper through Sunday lunch. Cost: \$130. For more information contact:

Michelle Prysby

Citizen Science Director

Great Smoky Mountains Institute at Tremont

9275 Tremont Road

Townsend, TN 37882

Phone: 865-448-6709

Fax: 865-448-9250

E-mail: michelle@gsmit.org

National Consortium for Teaching Asia Institute to be Offered in Nashville

Attention: High School and Middle School
Geography, History, Literature, and Art Teachers.
Receive a \$500.00 stipend and \$500.00 worth of
curriculum materials while learning about East Asia in
June 2004.

Belmont University and the University of
Tennessee at Chattanooga will offer, on the Belmont
Campus in Nashville this summer, a National Consor-
tium for Teaching Asia summer institute on China,
Japan, and the Korean Peninsula funded by the
Freeman Foundation. The dates and times of the
institute are: June 7th, 9th, 11th, 14th, 16th, and 18th
from 9-3 Central Time with an hour for lunch (the
days in which the institute does not meet these two
weeks are reading days). There is also a followup
meeting on Saturday November 13 from 9-12 Central
Time on the Belmont Campus.

Enrollment is limited to 25 teachers. Applications
will be ready in early January. If you are interested in
receiving an application, call or email:

Andrea Green

**Program Assistant, National Consortium for
Teaching Asia**

150 B Patten Chapel

615 McCallie Avenue

**The University of Tennessee at Chattanooga
Chattanooga, TN 37403**

Email: edast@utc.edu

Phone: 423-425-2118

Fax: 423-425-5380



Japan-U.S. Program of MTSU Serves Teachers in Middle Tennessee

The Japan-U.S. Program ("Japan Program") of
Middle Tennessee State University was formally
established in January of 2000 by integrating the
Japan Center of Tennessee and the U.S.-Japan
Economic and Educational Partnership Project. It
emphasizes academic and educational activities and
high-tech methods of information dissemination and
serves primarily MTSU and the Middle Tennessee
region.

American School Assistance

The Japan Program assists K-12 schools and other
educational organizations, such as libraries and
museums, regarding their education about Japan. Its
objective is not just the expansion of the student's

knowledge and understanding of Japan. Using Japan
as a point of reference, it helps them grow as American
and world citizens without cultural bias and racial
prejudice.

School Visits

Based on availability, their staff and community
volunteers will visit K-12 schools (typically in fall,
winter, and spring) and public libraries (typically in
summer) to make presentations. They provide similar
services to other organizations, such as children's
museums, boy and girl scouts, and extended school
programs. Possibilities for presentations include display
of artifacts (e.g., toys and costumes), demonstration of
traditional arts (e.g., origami and calligraphy), intro-
duction of songs and games, and narration of folk-tales.
There is no charge for these visitation services,
although voluntary contributions are always appreci-
ated.

Teaching Media Assistance

Upon request, they assist educators who seek
various materials for teaching about Japan. They can
introduce Internet sources of information, videos and
CDs, and publications, among others.

Artifact Exhibit

The Japan Program can loan a display case, with
various Japanese handicrafts and publications to
schools and public libraries, as well as other places of
similar function, for 2-4 weeks. The lockable case is 42
inches high, 33 inches wide, and 17 inches deep.

For more information contact:

Japan - U.S. Program of MTSU

Box 74, Middle Tennessee State University

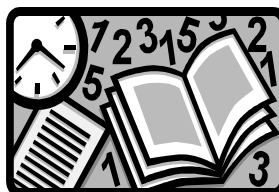
Murfreesboro, TN 37132

Phone: 615-898-2229

Fax: 615-898-5164

E-Mail: Japan@mtsu.edu

*Please turn to page 8 for information concerning
attending the Seminar/Workshop on Teaching
about Japan in Elementary Schools.*



Seminar/Workshop on Teaching about Japan in Elementary Schools

9:00 a.m. - 3:00 p.m., March 20 (Saturday), 2004

Business Aerospace Building classrooms, Middle Tennessee State University

Presented by the Japan-U.S. Program of MTSU (615-898-2229, japan@mtsu.edu)

Participants:

Primarily teachers of 3rd, 4th, 5th, and 6th grades, particularly 3rd and 6th grades in which contemporary social culture of other nations are taught as world studies, and secondarily teachers of 7th-8th and K-2nd grades, in middle Tennessee. Expected number of participants: 75

Objectives:

Participating teachers will learn about (a) Tennessee's school standards in relationship to teaching about Japan as part of world studies, (b) general characteristics of contemporary Japanese society and culture, (c) major sources of general information, particularly web sites and publications, (d) various suggested topics suitable for lesson plans, and (e) teaching materials and media that can be obtained or rented free.

They will also learn from (f) demonstrative presentations of lesson plans, (g) displays of artifacts, and (h) hands-on experiences of some cultural practices.

Program:

8:30 Registration/Refreshments/Displays

9:00 Tennessee School Standards and teaching about Japan (guest speaker)

9:45 Video screening, Japan of Today

10:15 Contemporary Japan: An Overview, lecture presentation with introduction of major web sites and publications for general information (K. Kawahito)

11:15 Break

11:30 Model Lesson Plan Presentation I: School Children in Japan (A. Kuratsuji)

12:15 Luncheon (Japanese box lunch). Guest speech/presentation: My Experience in Teaching about Japan (by a distinguished elementary school teacher)

1:10 Break

1:20 Model Lesson Plan Presentation II: Japanese Family and Living (A. Kuratsuji)

2:00 Introduction of (a) other topical packages, (b) free teaching aid materials, (c) rental materials, and (d) the School Assistance services of the Japan Program, including school visits (AK)

2:30 Panel session for Q&A (guest speaker, KK, AK, and the distinguished guest teacher)

3:00 Conclusions

For more information contact:

Japan – U.S. Program of MTSU
Box 74, Middle Tennessee State University
Murfreesboro, TN 37132
Phone: 615-898-2229
Fax: 615-898-5164
E-Mail: japan@mtsu.edu
URL: www.mtsu.edu/~japan/



Tennessee Council for the Social Studies State Social Studies Conference

Enjoy Sessions For All Grade Levels And Subjects Such As: Authentic Teaching in Elementary Classrooms; Personal Collisions in U.S. Legal History; Night Train to Nashville: Music City Rhythm & Blues 1945-1970; Teaching About War and Terrorism: Is it an Obligation, or Should It Be Avoided? and much more!

Friday, March 5, 2004 - 8:00a.m.-3:00p.m. C.S.T.
Park Vista Hotel (Formerly Adams Mark)

MEMPHIS, TN

Call 1-901-684-6664 And Mention The Tennessee Council For The Social Studies To Receive The Special \$75 Single-Double Rate. After February 5, 2004, Rooms Subject To Availability.

Registration Fees: \$40.00 TCSS Members. \$50.00 Non TCSS Members (Includes 2004-2005 TCSS Dues). For Luncheon Featuring Special Speaker National Council for the Social Studies President Dr. Denee Mattioli Please Add \$20.00 Per Registrant.

Send Registration Fees Including Luncheon Participation/Non Participation Choice, Name(s), E-Mail or Conventional Mail Address(es) of All Registrants Covered By Registration Fees by Friday, 27 February 2004 to:

**James E. Akenson
Box 5042
Tennessee Technological University
Cookeville, TN 38505**

Enclosed is my check of \$ _____ made payable to TCSS:

Name(s) _____

Address(es) _____

City, State, ZIP _____

E-Mail _____

Number of Luncheons: _____

Confirmation And Directions Will Be Provided.

Combined Geography and Geology Trips Offered Through UT Martin

Dr. Helmut Wenz will lead a trip to Peru to explore the Archaeology of the Inca Empire with emphasis on the cultural aspect of the population and the physical geography of the Andes. A tour of the Tambopata Rainforest is also included. The trip will cost \$2,400 dollars. Date is from March 13-23, 2004.

Dr. Mike Gibson and Dr. Helmut Wenz will conduct their annual trip to Belize, May 12-24, 2004. The trip will include features of the Chicxulub impact, Maya archaeology, rainforest and a four-day stay on Caye Caulker to study the Barrier Reef. The cost is \$1,900 dollars.

A third trip is slated for June 13-25, 2004. Dr. Wenz will conduct a trip to western Germany and eastern France. The objective is to study the Geography of Wine in these two regions. The trip will follow the Mosel and Rhine River Valley down to Basal, Switzerland and return on the west side of the Rhine following the flanks of the Jura Mountains. The cost is \$3,000 dollars.

August 2-14, 2004, Dr. Wenz will offer a tour of the Wine regions of central California. With emphasis on the terrior (the soils, temperature, and climate) of the region. The cost for this trip is \$1,000 dollars.

The last scheduled trip is set for December 10-23, 2004, to the Amazon Basin in Brazil. Dr. Gibson will interpret the geology of the basin and Dr. Wenz will focus on the cultural processes. Plans are to traverse the upper Rio Negro Basin. At this time of the year the river is at low stage and a greater vercity of features are visible. The cost is \$2,300 dollars.

All trips have six hours of credit, three in geography and three in geology. The credit can be either for undergraduate or graduate level.

For more information contact the following at UT Martin:

Dr. Michael Gibson. Dr. Michael Gibson
Phone: 1-731-587-7435
E-mail: mgibson@utm.edu

Professor Helmut Wenz
Phone: 1-731-587-7438
E-mail: hwenz@utm.edu

**Mailing address: Geography, Geology
Department
U.T.M.
Martin, TN, 38238**

TGA to Host Institute on Cultural Diversity of the American South

The Tennessee Geographic Alliance and Department of Geography at the University of Tennessee, Knoxville have received a grant from the National Endowment for the Humanities to host a four-week summer institute on the Cultural Diversity of the American South. The institute is a joint effort with financial support committed by the National Geographic Society Education Foundation. It will be held on the campus of the University of Tennessee, Knoxville June 20 - July 16, 2004.

The principal purposes of the institute are: 1) to provide 25 K-12 teachers, selected from public and private schools throughout the United States, with fresh opportunities to study, to see first-hand, and to experience the increasingly complex and diverse American South; 2) To demonstrate the ways in which geography is related to and draws from other disciplines in the humanities and the social sciences; and 3) To demonstrate how teachers can employ geographical methods to interpret data and access a rich variety of source materials using computers. The fieldtrip intensive institute will be led by experts on southern geography, literature, history, politics, archaeology, physical environments, law, and ethnicity. More information is available from the Alliance website at: <http://web.utk.edu/~tga/>.

Participants will receive a \$2,800 stipend to cover travel and subsistence expenses. Attendance at this institute is governed by requirements set forth by the National Endowment for the Humanities. There is a formal application process that includes an essay. Applications must be postmarked no later than March 1, 2004.

To receive copies of the application and dear colleague letter, which should answer most questions about the institute, please send a request to:

Kurt Butefish
Coordinator, Tennessee Geographic Alliance
304 Burchfiel Geography Building
University Of Tennessee
Knoxville, TN 37996-0925
Phone: 865-974-4841
Fax: 865-974-6025
kbutefis@utk.edu

EARTH SCIENCE WEB LINKS

Here are some useful Earth Science web Links contributed by the planning committee for the 2003 Earth Science Fair held last October at the University of Tennessee.

www.nationalatlas.gov - The new National Atlas includes products and services designed to stimulate children and adults to visualize and understand complex relationships between environments, places, and people. It contributes to our knowledge of the environmental, resource, demographic, economic, social, political, and historical dimensions of American life. A 56K modem is needed, a T-1 line, DSL, or cable modem is even better because of download times.

www.geology.sdsu.edu/how_volcanoes_work - This website is an educational resource that describes the science behind volcanoes and volcanic processes. The site is sponsored by NASA under the auspices of Project ALERT (Augmented Learning Environment and Renewable Teaching). It is intended for the education of university students of geology and volcanology and teachers of earth science.

www.mii.org/ - The Mineral Information Institute (MII) is a national not-for-profit organization dedicated to educating youth about the science of minerals and other natural resources, and about their importance in our every day lives. Each year MII works to help classroom teachers develop materials that are directly usable by teachers in a variety of subjects and a multitude of grade levels.

www.agiweb.org - The American Geological Institute is a nonprofit federation of 41 geoscientific and professional associations. AGI provides information services to geoscientists, serves as a voice of shared interests in the profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources and interaction with the environment.

www.utm.edu/departments/ggp/home.htm - Provides a link to the Tennessee Earth Science Teachers (TEST) homepage as well as a number of other earth science related resources. TEST is an organization for all teachers in Tennessee who teach or incorporate earth science, earth and space science, or geology in their courses in Tennessee, K-16 levels. TEST members provide a support network for teachers, organizes sessions for the annual TSTA meeting, organizes and participates in field trips for collecting specimens, and designs classroom activities.

www.topozone.com - On line topographic maps for the U.S. As you zoom in you go from 1:100,000 scale to 1:24,000 scale - great for looking at your subdivision, hometown, or features all over the U.S.

www.usgs.gov/ - U.S. Geological Survey home page - provides links to all sorts of other earth science related subjects studied or monitored by the U.S.G.S. including volcanoes, earthquakes, mineral resources, hydrology, etc. Great lesson plans for teachers.

www.state.tn.us/environment/tcbj/ - Website for the Tennessee Division of Geology - information on maps and publications related to the geology of Tennessee, has an excellent quarterly newsletter.

<http://teraserver-usa.com/> - An excellent source for aerial photos for all around the U.S. While they may not be the most up-to-date photos, they allow a view of just about anywhere.

<http://www.epa.gov/teachers/> - A collection of fact sheets, brochures, and web pages that teachers can use to explain environmental issues. These resources offer basic and clear information to assist in teaching students about the environment.

<http://www1.nasa.gov/home/> - Lots of images and multimedia features from the National Aeronautics and Space Administration.

<http://www.yannarthusbertrand.com/> - This is a vast collection of amazing aerial photographs by photographer Arthus-Bertrand. Click on "English" to enter the site. The "View of the Day" section should keep you busy for hours.

<http://www.earthscienceworld.org/imagebank> - A site sponsored by the American Geological Institute. The Earth Science World Image Bank is a free service providing the public, educators, and the geoscience community with quality images covering a wide range of Earth Science topics.

*Be Sure to Check Out These Great Summer Opportunities
for Teacher Professional Development*

MEXICO CITY: WINDOW INTO THE CULTURE
AND POPULATION OF MEXICO

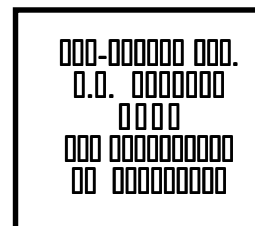
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NATIONAL CONSORTIUM FOR TEACHING ASIA

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CULTURAL DIVERSITY OF THE AMERICAN
SOUTH

SEE PAGE 10



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