

Professional Development Opportunities

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Get ready for spring and summer with these great workshops and trainings. Below are links to some upcoming programs all over the state. For a more complete list visit the [NCSTA Professional Development Calendar](#).

- [The NCCAT Experience](#)
- [The Science House, NC State University](#)
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If you know a program that should be included in the next issue of the Science Reflector, [email the editor](#).

Teacher Renewal Seminars: The NCCAT Experience

Join us for a North Carolina Center for the Advancement of Teaching (NCCAT) seminar. Teachers of all grade levels and subjects who have been employed full-time in North Carolina public schools for at least three years may apply. Seminar materials, lodging, meals, substitute teacher pay, and most travel expenses are covered **at no cost to the participating teacher or their school**. All seminars are aligned with the NC Standard Course of Study, are multi-disciplinary, and are based on experiential learning principles.



To register call NCCAT Teacher Services at 1-800-922-0482 or email registrar@nccat.org submitting your name, home telephone number, social security number, and seminar choice. Abridged descriptions follow; however, full descriptions of all professional development offerings are available on the NCCAT web page, www.nccat.org.

10215 • Leadership, Creativity, and Change:
Positive Paths for North Carolina Schools
June 16–20: Ocracoke

Designed for School System, Regional, and State Teachers of the Year North Carolina's Teachers of the Year are invited to join us on Ocracoke to examine educational leadership, best practices in teaching, and positive responses to institutional change. Your colleagues and students recognize you as an outstanding teacher and leader in your school system. Through this seminar you will discover how to continue your intellectual growth as an educational professional. Explore timely and relevant questions such as: What is educational leadership in today's schools? How can teachers best work with administrators to foster a school climate for improving

student achievement? How can we develop our leadership abilities within the changing context of educational reform?

10410 • Endangered Species: Saving the Loggerhead and Piping Plover

July 28–August 1: Ocracoke

Plant and animal species are important indicators of the health of our ecosystems. When a species becomes endangered, it is a signal that other aspects of our environment are also being threatened. Currently, there are many species identified as rare or threatened and soon they could be designated as endangered. Join us on the Outer Banks as we explore salt marshes, maritime forests, and coastal beaches, identifying threatened species and discussing the human impact on these fragile ecosystems. Evaluate the Endangered Species Act, passed by Congress in 1973, and debate how its impact is affecting human activities.

10425 • Everyone Needs a Little Mystery: CSI in Your Classroom

July 28–August 1: Cullowhee

Was it really Colonel Mustard in the billiard room with a knife? After this seminar, you'll know for sure. Our survey of forensic science techniques will span from fingerprinting and impression analysis to forensic entomology, bite mark analysis, the physics of blood spatter, and much more. Use the equipment that the professionals use and hone your powers of observation and deduction as you assume the guise of expert CSI—Crime Scene Instructor. You will process a crime scene and explore DNA forensic analysis in a state-of-the-art laboratory.

10440 • Get the Picture? The Math, Science, and Art of Photography

July 28–August 1: Cullowhee

Shutter speed, aperture diameter, depth of field... who knew there was so much math and science involved in taking a high-quality photograph? Discover how this unique art form can provide an ideal vehicle for strengthening math and science skills while encouraging disciplined creativity. Understand how photographers not only record what is visual but create and preserve a sense of time and place. Likewise, photographers use high-level critical thinking skills as they identify problems and explore new solutions.

10485 • Waterfalls: The Beauty and Power of Flowing Water

August 4-8: Cullowhee

Where water, stone, and gravity come together, a waterfall is born. Learn how waterfalls are geologically formed, and discover the distinctive biological and botanical communities that surround some of the grandest cascades in the mountains of western North Carolina. Hike with us in our national forests, discovering the sights, sounds, and folklore of the Great Smoky Mountains. Learn about the ecology, geology, history, and economic impact of waterfalls in our state. Consider the ways in which artists throughout the ages have attempted to immortalize their encounters with nature. Capture the beauty and power of these forces of nature as we learn the techniques of watercolor journaling. Moderate hikes will carry us into the great outdoors, where waterfalls and panoramic mountain vistas will inspire the artist within.

10500 • Multimedia in the Classroom: Empowering Student Learning

August 11–15: Cullowhee

Discover the increasing range of instructional strategies that technology offers and how to use these strategies to enhance teaching and learning. Examine multimedia projects that have been effective in classrooms. Determine how to choose projects that address curriculum standards, are pedagogically sound, and appeal to a wide range of learners. An exciting whitewater rafting trip down one of the most scenic rivers of western North Carolina will give us an opportunity to gain mastery of new media techniques as we weave technology, digital photography, and curriculum plans in the creation of our own multimedia.

How do I apply?

Teachers of all grade levels and subjects who have been employed full-time in North Carolina public schools for at least three years may choose a seminar. There is no cost to the teacher. Call NCCAT Teacher Services at 1-800-922-0482 or email registrar@nccat.org submitting your name, home telephone number, social security number, and seminar choice. Or visit the NCCAT Website at www.nccat.org to download an application. If you have any questions about particular seminars, please feel free to contact Renée Coward, 2005 NCSTA President and NCCAT representative.

Teacher Programs at The Science House



Physics/Physical Science Modeling Workshops for Teachers

The North Carolina Modeling Instruction Workshops provide professional development opportunities in physics, physical science and chemistry content and research-based, reform-oriented pedagogy for teachers in North Carolina through a Math-Science Partnership grant. 3-week workshops on modeling strategies in physics and physical science will be held June 16 - July 3, 2008 on the NCSU campus. High school science teachers are invited to attend. Participants will receive lodging and meals plus a \$150/day stipend and CEU credits. Apply, learn more about the workshop or learn more about modeling at www.science-house.org/teacher/modeling/

Summer Imhotep Academy

Imhotep Academy at North Carolina State University is a successfully established program, and a great opportunity for 6th, 7th, and 8th graders to learn about mathematics, science, and technology in a fun and interactive way. The next session of Imhotep Academy is in the summer of 2008, and the theme is Exploring Our World: Going Green-Alternative Energy. Students will discover how mathematics, science and technology impact our lives through Alternative Energy Applications. Session costs \$125 if paid by May 1, afterward \$150.00. The summer Imhotep session runs from June 9-13, with a mandatory orientation on Thursday, May 29 at 6:30pm.

Imhotep Algebra program is July 21-25 with mandatory orientation on Tuesday, July 15 at 6:30 pm. The hours for the summer session are from 7:45 AM- 12:15 PM daily.

Pre-registration for all programs can be completed online at www.science-house.org/student/imhotep/

Summer Job Opportunities for Teachers

Imhotep Academy, a pre-college mathematics, science, and technology program, is recruiting teachers with a physics, mathematics, and information technology background. We provide excellent pay and resources for an individual who has the ability to communicate and relate to middle and high school students in an inquiry manner. Our environment is supportive, built upon the team approach and nurturing students' interest in science. Please submit your resume along with a philosophy of education, any developed curriculum modules, as it relates to teaching to Joyce Hilliard-Clark hilliard_clark@ncsu.edu for middle school and Pamela Gilchrist, pamela_gilchrist@ncsu.edu, for high school.

Middle School Programs:
Imhotep Academy June 9-13.
Algebra Program July 21-25.

High School Programs:
Photonics Xplorers June 16-20.
Photonics Leaders June 23-30, July 1-3, July 14-18.

Summer Technology Workshops across NC

Middle and high school science teachers across the state are invited to a week long train-the-trainer workshop using CBL and MBL equipment. Participants receive stipends, equipment loans and more! Workshops are funded in part by the Golden Leaf Foundation.

Asheville, July 21-25, www.science-house.org/info/asheville/summer08.html
Lenoir, August 4-8, www.science-house.org/info/west/summer08.html
Jacksonville, July 14-18, www.science-house.org/info/jacksonville/summer08.html

Environmental Science Summer Workshops

The Center for Environmentally Responsible Solvents and Processes is offering three hands-on environmental science education workshops for high school teachers. Teachers will participate in lab activities during the workshops. These are hands-on experiences! Staff from The Science-House and a trainer from Lab-Aids will lead this three day event. Join us at Elizabeth City State University August 5-7, 2008 Learn more and register at www.science-house.org/CO2/educators/workshops.html

NC Science Olympiad New Team Institute

New Team Institutes are offered each summer as part of the Science Olympiad Student Enrichment Program (SOSEP) which is entering its sixth year and is a collaboration between the North Carolina Science Olympiad (NCSO), the Burroughs Wellcome Fund, various universities and community colleges and numerous school systems across North Carolina. The goal is to ensure that all students have an equal opportunity to participate in the NCSO regardless of their ethnicity, household income or geographic location. The Institutes will be held June 23 - 24, 2008 in Fayetteville, NC and June 30 - July 1, 2008 in Wilmington, NC. Learn more and register at www.sciencenc.com/SOSEP/index.cfm

Bring the Science House Teacher Workshops to Your School

The Science House also provides one or two-day programs to update and refresh teachers' mathematics, science, and Internet skills. These workshops have been taught many times in schools across North Carolina. Our workshop participants learn skills and activities that they can immediately use in their own classrooms. We especially emphasize programs to help meet teacher technology competencies. Each workshop can be tailored to fit local needs. Please visit the workshop web page (www.science-house.org/workshops/) for more information on our workshop or contact Scott Ragan (scott_ragan@ncsu.edu) at The Science House or call (919) 515-6118

SITE - Statewide Institutes for Teaching Excellence

SITE: K-2 Science

This nine-day institute will focus on the major themes that traverse the North Carolina Standard Course of Study for Science, grades K-2. Topics included in this institute are:

Earth Systems: Mapping the Curriculum: The K-2 Essential Learning through Curriculum Topic Study; Weather Features; Earth Materials; Energy from the Sun; A variety of Resources: Earth Materials and How They are used

Force and Matter: Mapping the Curriculum: The K-2 Essential Learning through Curriculum Topic Study Building Blocks of Matter: Properties; Energy Transformers and Phase Changes Properties of Force

Living Organisms: Mapping the Curriculum: The K-2 Essential Learning through Curriculum Topic Study, Needs of Organisms, Cycles of Life, Variety of Organisms

For more information and to register visit education.uncc.edu/cmste/SITE/K2science.html

SITE: 3-5 Science

This nine-day institute will focus on the major themes that traverse the North Carolina Standard Course of Study for Science, grades 3-5. Topics included in this institute are

Rock Cycle (soil properties, composition/uses of rocks and minerals, & landforms);
Ecology (plant growth and adaptations, animal behavior and adaptations, & interdependence of plants and animals);
Energy/Forces (light, heat, magnetism and electricity, & forces and motion);
Weather and Climate (wind direction & speed, precipitation, cloud cover, air pressure, weather patterns, influence of geography on weather)

For more information visit education.uncc.edu/cmste/SITE/35science.html

SITE: 6-8 Science

This nine-day institute will focus on the major themes that traverse the North Carolina Standard Course of Study for Science, grades 6-8. Topics included in this institute are Life Systems (human body, microbiology, pandemics) and Earth Systems (hydrology, lithosphere, and population dynamics).

For more information visit education.uncc.edu/cmste/SITE/68science.html

SITE: Biology

This 5-day institute will focus on selected elements of the North Carolina Standard Course of Study in Biology. It will address critical areas recommended by the Department of Public Instruction: content, misconceptions, and instructional strategies designed to assist in improving student achievement.

Module I: Energy and Matter in Living Systems: Respiration. Photosynthesis, Energy Transfer in the Ecosystem (including conservation of energy and conservation of matter)

Module II: Genetics and Evolution: Gene Regulation, Evolution and Adaptation (including unity and diversity of life)

For more information visit education.uncc.edu/cmste/SITE/biology.html

K-12 Summer Science Leadership Institute

The K-12 Summer Science Leadership Institute, sponsored by the NC Department of Public Instruction, for 2008 will be held July 14-17 in New Bern at the Riverfront Convention Center on the shores of the Trent River. This year the focus will be on the new Units K-12. These units use Revised Bloom's Taxonomy for unpacking and tagging the verbs in the present North Carolina Standard Course of Study. The narratives within the units are based on the 5E Learning Cycle. A basic materials list for each grade level and subject area will be given out and the cover sheet will be uniformly formatted showing nine parts that should help to stabilize the science classroom. Workshop registration is \$325.00. This includes all workshop sessions and materials. It also includes breaks, two dinners, two lunches and three full breakfasts. The registration deadline is June 9, 2008.

Contact Janet Bailey (jbailey@dpi.state.nc.us), Lisa Mackey (lmackey@dpi.state.nc.us), Ragan Spain (rspain@dpi.state.nc.us) or Benita Tipton (btipton@dpi.state.nc.us) for more information.

Project Learning Tree



Project Learning Tree (PLT) workshops will introduce you to exciting, hands-on, multidisciplinary activities that cover a broad range of topics in our natural and built environments. Attendees at PLT workshops can obtain CEU renewal credits, and the PreK-8 curriculum is correlated to the NC Standard Course of Study in the areas of science, math, language arts, and social studies. Additionally, PLT is required for the NC EE Certification program. Unless stated, workshops and materials (including activity guides) are provided free of charge, but participants must pre-register. To pre-register for any of the workshops below, please contact the person listed directly.

June 18, 2008, 9am - 4pm

PreK-8 Workshop

Jockey's Ridge State Park, Nags Head, NC

To Register: Gene Peacock gene.peacock@ncmail.net 919-777-9488

6-hour workshop. Participants will need to complete a simple "homework" assignment to receive 1.0 CEU credits and/or to meet EE Certification requirements.

Registration deadline is June 2nd.

June 20, 2008, 9am - 4pm

PreK-8 Workshop

Hammocks Beach State Park, Swansboro, NC

To Register: Sarah Bouknight sarah.bouknight@ncmail.net 910-326-4881

6-hour workshop. Participants will need to complete a simple "homework" assignment to receive 1.0 CEU credits and/or to meet EE Certification requirements.

June 24, 2008, 9am - 4pm

PreK-8 Workshop

Catawba County Schools

To Register: Carol Moore carol_moore@catawba.k12.nc.us 828-455-9181

6-hour workshop. Participants will need to complete a simple "homework" assignment to receive 1.0 CEU credits and/or to meet EE Certification requirements.

June 28, 2008, 9am - 4pm

PreK-8 Workshop

Clemmons Educational State Forest. Clayton, NC

To Register: Clemmons ESF Rangers clemmonsesf.dfr@ncmail.net 919-553-5651

6-hour workshop. Participants will need to complete a simple "homework" assignment to receive 1.0 CEU credits and/or to meet EE Certification requirements.

July 16, 2008, 9am - 4pm

PreK-8 Workshop

NC Aquarium at Fort Fisher, Clayton, NC

To Register: Aquarium Program Registrar ncaff.registrar@ncmail.net 910-458-7468

6-hour workshop. Participants will need to complete a simple "homework" assignment to receive 1.0 CEU credits and/or to meet EE Certification requirements.

Engineering is Elementary

An intensive workshop, May 28-30, about Engineering is Elementary for teachers at the NC Museum of Natural Science in Raleigh. Learn how EiE curricular materials are helping elementary teachers meet engineering and technology standards. Register by May 18 and learn more at www.mos.org/eie/workshops_programs.php. Email

Living with White-tails – Urban Deer Management

Centennial Campus Education Center, North Carolina Wildlife Resources Commission
1751 Varsity Dr, Raleigh NC 27606-2576
Wednesday, May 28th 6:00 pm – 8:30 pm

Living with White-tailed Deer offers background on the problem and possible solutions. Groups representing homeowners, park officials, wildlife advocates, and animal rights activists all have positions on the problem. Quality Deer Management Association's Richard Vitek will address both historical perspectives and solutions that other communities have implemented. District 3 Biologist Joe Folta will address how the NC Wildlife Resource Commission is addressing these issues; and Park Naturalist Sabrina Thompson will offer practical habitat management solutions.

This material is well-thought-out and would enhance any biology or environmental science class. The activity could be enriched by having students create food webs representing natural communities and research other local problems or the issue of urban expansion on a local or national scale. The material presented is appropriate for both middle and secondary students, and the material is well correlated to the National Science Education Standards. The program offered is a winner of the international "The Wildlife Society's Conservation Education Award", and of the national "Outdoor Writers Association of America's Golden Eco Award", which is given to the top conservation-education production.

CFE credits have been applied for; and Criteria III in the North Carolina EE Certification Program credits have been approved.

For additional information, or to register for this free workshop, send an e-mail: greaterthan8@yahoo.com providing your name, phone number, address, and e-mail address. RSVPs no later than May 20, 2008 are appreciated.

Pisgah Forest Institute

Pisgah Forest Institute at Brevard College in Brevard, North Carolina presents Summer Workshops. All summer workshops are FREE to all educators (both traditional and non-traditional educators) and included: room, board, instruction, resource notebook, and many classroom takeaways!

June 15—20, 2008: Earth/Environmental Science for Middle and High School Teachers

This workshop provides science educators of grades 6-12 with classroom lessons, laboratory activities, and field experiences associated with earth and environmental topics. The workshop will focus on four general sections of earth and environmental science curriculum: geology, ecology, hydrology, and atmospheric conditions. The workshop will use the national forests of Western North Carolina as a classroom to teach participants about the unique organisms and ecosystems of the Southern Appalachian Mountains. Workshop participants are eligible to receive up to 4 Continuing Education Unit (CEU) credits based on 40 contact hours, as well as Criteria I or II credit in the North Carolina Environmental Educators (NCEE) certification program. Three semester hours of undergraduate college credit is available through Brevard College.



June 22—27, 2008: Earth/Environmental Science for Elementary School Teachers

This workshop provides elementary educators with classroom lessons, laboratory activities, and field experiences that capitalize on the topics in the earth and environmental K-5 science curriculums. Teachers will be presented pertinent background information along with tangible methods to introduce these earth and environmental science concepts to K-5 students. Emphasis will be placed on using the environment around us to provide a living classroom to students. Some of the specific topics include: plants and animals, geology, water and air quality, and weather. Environmental issues will be integrated throughout the workshop. Workshop participants are eligible to receive up to 4 Continuing Education Unit (CEU) credits based on 40 contact hours, as well as Criteria I or II credit in the North Carolina Environmental Educators (NCEE) certification program. Three semester hours of undergraduate college credit is available through Brevard College. (A great way to receive college science credits for lateral entry teachers!!).

July 13—15, 2008: Recycling and Composting in the Classroom

This workshop, designed for K-12 educators, will focus on recycling and composting, and their importance in solid waste management and sustainability. In learning about these topics, participants will also be learning how and why to teach about recycling and composting. Woven throughout the workshop will be material from both Wake County's "Feed the Bin" and Keep America Beautiful's "Waste in Place" school recycling curriculum guides. In addition to this curriculum, we will focus on how to implement and effectively run a recycling and composting program in a school setting. Workshop participants are eligible to receive up to 1.5 Continuing Education Unit (CEU) credits based on 15 contact hours, as well as Criteria III credit in the North Carolina Environmental Educators (NCEE) certification program.

July 16—18, 2008: Forest Invasives

Forest Invasives will examine invasive species of plants, animals, and fungi that have affected the forests of the Southern Appalachians and altered the composition of native trees and other organisms. The most recent invader has been the Hemlock Woolly Adelgid, an aphid-like insect that attacks Hemlock trees, but several other animals have also affected forest systems. Everyone recognizes that Kudzu is an invasive plant, but there are several other plants that are even more damaging to forest ecosystems. Fungal diseases have historically been problematic in the moist forests of the Southern Appalachians, with Chestnut Blight a major source of forest change. This workshop will teach participants to identify invasive species and describe ways to control them. This workshop is designed for K-12 educators. Workshop participants are eligible to receive up to 1.5 Continuing Education Unit (CEU) credits based on 15 contact hours, as well as Criteria II credit in the North Carolina Environmental Educators (NCEE) certification program.

July 20—25, 2008: Forest Ecology

This workshop offers participants an opportunity to learn about the important interrelationships in forests. Participants will discover how plants, animals, fungi, and microbes connect to each other to create forest ecosystems. The importance of abiotic features in determining forest type will also be examined, and the role of humans as agents of change will be addressed. The workshop will use the national forests of Western North Carolina as a classroom to teach participants about the unique organisms and ecosystems of the Southern Appalachian Mountains. Topics include: types of forests, changes within the forest systems, and biodiversity. This workshop is designed for K-12 educators. Workshop participants are eligible to receive up to 4 Continuing Education Unit (CEU) credits based on 40 contact hours, as well as Criteria II credit in the North Carolina Environmental Educators (NCEE) certification program.

Pisgah Forest Institute is a non-profit, cooperative, environmental education effort of the USDA Forest Service, the Cradle of Forestry in America Interpretive Association, and Brevard College.

For more information and to pre-register, [visit our website](#) or contact us at pfi@brevard.edu or call us at (828) 884-8229.

Powerful Professional Learning in Science: July 7-10, 2008 at the Grove Park Inn in Asheville

At this conference, participants will explore the differences between professional development and professional learning. They will experience several powerful designs themselves – deeply enough that they will be able to facilitate these designs with the educators with whom they work. They will evaluate current professional learning programs according to a variety of criteria. Then, using a Backmapping Model for planning, implementing, and evaluating professional learning, they will create a plan to remodel current professional learning approaches so that they more closely align with students' learning needs, meet National Staff Development Council's standards for staff development, and model the type of learning educators want their students to experience. <http://www.ncsla.net/sli08/>

Sustainable Forestry Teachers' Academy

Mountain Academy, based in Asheville June 16-20, 2008

Coastal Academy, based in New Bern July 14-18, 2008

The Sustainable Forestry Teachers' Academy is a four-day residential program that focuses on the social, economic, and environmental aspects of sustainable forestry. Teachers will visit a variety of forests and mills learning about forest management and the manufacturing of various wood products such as paper, furniture, plywood and lumber. Teachers participate in tours and hikes in forests under a variety of ownership and management plans. Excursions to museums, state forests, experimental forests, and environmental learning centers round out the experience. Meals, lodging, and transportation during the Academy are provided, however participants are required to submit a \$100 deposit, which will be returned upon arrival. CEU renewal credits will be awarded.

The online application and more information including sample agendas and pictures can be viewed at www.ncsu.edu/feop/teachers. Multiple teachers from the same school, and teachers of all disciplines, are encouraged to apply! This opportunity is available only for teachers associated with a school district, non-formal educators do not qualify. Questions? [Contact Renee](#) at 919-515-5518.

Summer Safety Workshops

Level 1 Science Laboratory Safety Seminar for School System/School personnel
July 13-18, 2008 Downtown Raleigh Sheraton Hotel



Who Should Attend:

LEA personnel: Administrators, Safety Officers, Chemical Hygiene Officers, Science Consultants, Facilities Managers, School Administrators, Lead Chemistry Teacher / Middle School Science Teacher in the LEA.

Course Curriculum:

This information-packed course is designed to equip participants with the knowledge and skills necessary to provide LEA and school personnel with the knowledge and skills to develop and sustain an on-going science laboratory safety program in their LEA and school.

Registration Fee \$1300 per participant. Includes all course materials and hotel accommodations for participants. Payment / Registration due by June 10, 2008. Space is limited. No refunds.

Level 2 Building a Sustainable Science Safety Program
July 27 – Aug 1, 2008 Downtown Raleigh Sheraton

Who Should Attend

LEA and School Personnel who have completed Level 1 Science Laboratory Safety Seminar taught in 2005, 2006 or 2007

Course Curriculum

This hands-on course is designed for Level 1 Science Laboratory Safety Seminar participants to apply their knowledge and skills using the Customized Comprehensive Science Safety Laboratory Program (C2S2LP) to develop a sustainable science laboratory safety program for their schools and LEAs. Middle and secondary school science laboratories will be assessed, Assessment Reports written, and a Needs Assessment Prioritization Plan developed for a school and LEA. Participants will be trained to make presentations to School and LEA personnel that are essential implementation and enforcement of the Chemical Hygiene Plan by the Chemical Hygiene Officer of the school and LEA.

Registration Fee \$1250 per participant (\$2400 total if attending both workshops). Includes all course materials and hotel accommodations for participants. Payment / Registration due by June 20, 2008. Space is limited. No refunds.

Learn more at <http://www.sciencesafetyconsulting.com/workshops/upcoming.html>

Register for either or both workshops by downloading the form at <http://www.sciencesafetyconsulting.com/workshops/Sum08Registration.pdf>

Educator Workshops in the Smokies

Educator workshops are offered by the Great Smoky Mountains National Park. Fees for all workshops are covered by a grant from the NC GlaxoSmithKline Foundation so they are either FREE or come with a small stipend. Contact Susan Sachs (Susan_Sachs@nps.gov) with any questions.

Smoky Mountain Science Teacher Institute - June 15-20

Immerse yourself for one week in the biological diversity of the Smokies and return home with exciting new ideas for involving your students in hands-on science. Throughout the week, we will visit different Smokies habitats to learn about their amazing natural resources as well as the environmental problems threatening them. Each day you will become a citizen scientist, helping to inventory and monitor everything from salamanders to slime molds. Increase your own science skills and discover new ways to do the same for your students. All lodging and meals for the week are provided. A \$50 reservation fee will be refunded after the workshop. Register through the Great Smoky Mountains Institute at Tremont at www.gsmit.org.

Advanced Science Teacher Institute - July 8-11

Work through the entire scientific method as we collect and analyze data with researchers working in Great Smoky Mountains National Park. Learn how to design field studies including statistical analysis, how to use a GPS and how to transfer that data into a GIS map. All fees are covered for the Great Smoky Mountains Institute at Tremont. A \$50 reservation fee will be refunded after the workshop. Register through the Great Smoky Mountains Institute at Tremont at www.gsmit.org.

Advanced Air Quality - August 5-6

Presented by the National Park Service and NC Department of Natural Resources, this seminar offers an in-depth investigation of air quality issues in the Southern Appalachians. Explore classroom materials, activities, and background information about air pollution problems and solutions. \$25 travel stipend and lunch each day are provided (2 day workshop). First day is held at the Blue Ridge Parkway's new Destination Center in

Asheville. The second day is at Clingman's Dome in Great Smoky Mountains National Park. This is a Criteria I workshop with the NC-EE certification program. Register with Keith Bamberger at keith.bamberger@ncmail.net.

Summer 2008 Biotechnology Workshops for Educators

Don't miss this summer's 2008 Biotechnology Workshops for Educators, sponsored by the North Carolina Biotechnology Center. Learn about activities that will engage your students while reinforcing State objectives. North Carolina educators receive a daily stipend, room and board, technology or regular CEUs, and access to the Biotechnology Center's Free Supplies and Equipment Loan Programs. Workshops are designed for high school teachers but middle school teachers and college faculty may also attend.

Using Biotechnology to Preserve Biodiversity, Cherokee High School, June 23-27

Genomics and Bioinformatics: Teaching with Model Organisms, UNC – Chapel Hill, June 30-July 3

Let it Glow: Using GFP as a Basis for Understanding Protein Structure and Function, Campbell University, July 8-11

Complete information about the workshops may be found on the Biotechnology Center's Web site. Space is limited, so register now at www.ncbiotech.org/summerworkshops/

Chinese American Cultural Bridge Center Educators' Tour to China

The Chinese American Cultural Bridge Center, an Illinois-based nonprofit organization invites you to participate in the 2009 Educators' Tour to China. Designed to give educators' the experience of discovering the geography, history, & culture of China first hand, it also allows the opportunity of meeting and exchanging ideas with Chinese educators; this educational experience can offer educators 50 cpdu's at the end of the trip.

This 15-day journey will take educators to Beijing, Zhengzhou, Kaifeng, Luoyang, Shaolin Temple, Xian and Shanghai for the all-inclusive price of \$3,850. Travel dates: July 15 – July 29, 2009. For complete itinerary & details, please visit www.cacbc.org/Educational_Tours/EducatorsTour.htm.

For complete itinerary & details, please contact Jennifer Chan at T: 847 902 7229. E: jc120882@hotmail.com

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