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1. 4-H SPORTFISHING LEADER TRAINING-MAY 2-3 AT AUBURN UNIVERSITY
This "hands-on 4-H Sportfishing Leader Training will be May 2-3 on the Auburn University campus. The cost is \$10. Participants will be responsible for their own lodging. On the afternoon and evening of May 2, we will be at the Stanley P. Wilson Beef Teaching Unit Classroom, 500 Shug Jordan Parkway the corner of Wire Road and Shug Jordan across from the AU Bull Test Unit. For directions and a map, go to <http://www.ag.auburn.edu/~ckerth/map.pdf>. On May 3, we'll be at the North Auburn Fish Pond Pavilion near the intersection of Hwy 147 and Co. Rd 72 (near Farmville Church). Maps will be provided on My 2.

We are looking for people who have an interest in natural resources programs in general and/or fishing. However, the main prerequisites are that they like working with children and are interested in helping them to learn good stewardship values. The flier near the end of this memo gives you some information about the 4-H Sportfishing program to share with them.

1. REGISTRATION: The REGISTRATION DEADLINE IS FRIDAY, APRIL 28. Send to Lynda Montgomery, 4-H Sportfishing, 209 Duncan Hall, Auburn University, AL 36849-5620. Her contact information: e-mail, montgly@auburn.edu; phone, 334-844-2232; and FAX, 334-844-2252. The registration form, promotional flier, and tentative agenda are at the end of this memo. The cost is \$10.00 PER PERSON and covers Supper on May 2 and lunch on May 3, as well as education materials. Checks should be made out to the Alabama Cooperative Extension System. Each participant should bring their outdoor clothing, a hat, and sunglasses or safety glasses.

2. LODGING OPTIONS: Participants are responsible for their own lodging in Auburn. A list of local motels appears at the end of this memo.

3. EQUIPMENT: All equipment and teaching materials will be furnished. However, participants may bring their own rods, reels, and tackle boxes if they want. We will be outdoors from 8:00 a.m. until 3:00 p.m. on May 3, so everyone should bring outdoor clothing, a hat, sunglasses or safety glasses, insect repellent, sun screen, and rain gear.

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REGISTRATION: 4-H Sportfishing Leader Training-May 2-3--Auburn University

COUNTY:_____

SUPERVISING EXTENSION EMPLOYEE:_____

*Name Address

Phone E-Mail

*****.

*Name Address

Phone E-Mail

*****.

*Name Address

Phone E-Mail

*****.

*Name Address

Phone E-Mail

*****.

*Name

Address

Phone

E-Mail

Extension Agent Signature _____ Date _____

Return to Lynda Montgomery at the State 4-H Office by April 28.

Agenda: 4-H Sportfishing Training-- May 2-3, 2006--Auburn University

DAY 1-- Stanley P. Wilson Beef Teaching Unit Classroom, 500 Shug Jordan Parkway the corner of Wire Road and Shug Jordan across from the AU Bull Test Unit. For directions and a map, go to

<http://www.ag.auburn.edu/~ckerth/map.pdf>.Beef

- * 3:15 PM
- * Fish Introductions
- * What is 4-H Sportfishing?
- * Teaching Techniques
- * Recruiting Volunteers
- * County Resources
- * Fund Raising
- * Post-Catch
 - Handling Your Catch
 - Safety, Post-Catch Care, Preparation
- * Levels of Achievement
- * 5:30 PM Adjourn for Catered Supper
- * 6:30 PM
- * Fish Prints/Outlines
- * Tacklecrafting-Concurrent 45 minute sessions--repeated once
 - Painting Tackle
 - Flytying
- * 8:30 PM
- * Hand our Directions to N. Auburn Fish Pond Pavilion
- * & Adjourn

DAY 2-N. Auburn Fish Pond Pavilion (Near intersection of Hwy. 147 and Co. Rd 72 at Farmville Church)

8:00 AM

- o Fish ID Cards
- o Knots - Arbor, Palomar, and Improved Clinch
- o Introductory Activity - Can Casting
- o Safety When Fishing
- o Introduction to Casting - Spincasting and Spinning
- o Rigging, Knots & Hook Selection

* Noon--Catered Lunch

* 12:45 PM

- o Introduction to Casting - Baitcasting
- o Bass and Bluegill Game
- o Entomology
- § Bio-Assess
- § Macro-Invertebrate Mayhem
- o Introduction to Casting - Flycasting
- o Complete Short Evaluation Form
- o Summary and Closing
- o Drawing for Equipment Give-away (only volunteers eligible)

* 3:00 PM Homeward Bound

Optional-Stay for Open Fishing until 4:30

Alabama 4-H Sportfishing--

Take the bait, reel in the fun, and cast into the future!

It's an activity for everyone--girls, boys, young, old, city folks, and country folks. Participation in 4-H Sportfishing is not limited by skill or physical abilities. The program is open to youth ages 9 to 19.

After learning about fishing and field safety, participants get to practice angling skills and learn more about tackle crafting, people and fish, and aquatic ecology. Along the way, they'll discover the answers to such questions as "Which lure should I use when?" or "Where's the best place in the lake to catch bass? Or bluegill? Or any other kind of fish?"

What can 4-H Sportfishing do for young people and their families? The goals for the program are:

- * Practice and develop the life skills of decision making, communicating, leading self and others, planning and organizing, and learning to learn
- * Expose participants to the broad array of lifelong activities related to sportfishing

- * Strengthen families through lifelong recreational activities
- * Understand a variety of fish species
- * Use a variety of sportfishing equipment
- * Make and repair fishing tackle
- * Understand the ecological and social basics of fisheries management
- * Fish responsibly
- * Develop caring relationships as well as life-long appreciation for sportfishing.

If you are interested in 4-H Sportfishing for your child, contact your County Extension Office. If there is no 4-H Sportfishing club in your community, you and/or other interested parents should consider attending the 4-H Sportfishing Leader Training May 2-3 29-31 at Auburn University

This is a "hands on" workshop. The cost is only \$10 per person. Participants will obtain all the information and lesson plans they need to conduct a local 4-H Sportfishing club. Each County Extension office has registration information.

Come join the Fun!

Sponsored by
 Alabama Cooperative Extension System
 Alabama Division of Wildlife & Freshwater Fisheries
 Auburn University Department of Fisheries & Allied Aquacultures
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Hotel Accommodations
 Auburn, Alabama
 Area Code 334

To find any of the following motels: From I-85, take Exit 51 (College St.).
 *North of I-85
 ** South of I-85

Auburn University Hotel*
 241 South College St.
 821-8200

Best Western*
 1577 South College St.
 821-7001

Comfort Inn*
 2283 South College St.
 821-6699

Econo Lodge*
2145 South College St.
826-8900

Hampton Inn**
2430 south College St.
821-4111

Heart of Auburn*
333 South College St.
887-3462

Holiday Inn Express
2013 South College St.
502-1090

University Inn*
129 North College St.
821-4632

2. SPRING ESSAY CONTEST

Deadline: May 1, 2006

aWorldConnected 2006 essay contest topic is "Education in Developing Countries" and is open to full time students or anyone 25 years of age or younger.

<http://eelink.net/cgi-bin/ee-link/newclick/505650>

3. "ANGELS IN ACTION" AWARDS

Deadline: October 1, 2006

Georgia-Pacific's Angels in Action Awards Program will recognize children who are involved in exemplary community service projects in age categories 8-15 years old and 16-18 years old. One outstanding awardee will receive \$15,000 for "Program of the Year." Two grand-prize winners (one from each age category) will receive \$10,000, and ten finalists (five from each age category) will receive \$1,000.

<http://eelink.net/cgi-bin/ee-link/newclick/505648>

4. WALKER CO. ATV PSAs FEATURED ON STATE & NATIONAL WEB SITES

The Walker Co. 4-H ATV Club recently developed television-quality Public Service Announcements about ATV safety and ethics. They can be viewed on the National 4-H ATV web site (<http://www.atv-youth.org/resources.aspx>) or the Alabama 4-H Natural Resources & Environmental Education web page (<http://www.aces.edu/fourh/NatResPrograms.php>).

5. NEW SHOOTING SPORTS VIDEO

Check out the new 3 ½ minute 4-H Shooting Sports promotional video at <http://www.4-hshootingsports.org/>. Scroll down, and you will see the link. You can click the link to view the video. You can also right click the link to download and save the video to your computer or to a DVD. The download time is about 2 min 45 sec to 3 minutes using a high speed connection. Unfortunately, if you use dial-up you could be 3 hours.

6. 2006 NRA NATIONAL JR AIR GUN CHAMPIONSHIP & TRAINING SUMMIT

The 2006 NRA National Jr Air Gun Championship & Training Summit will be held in Redmond, Oregon, July 6-9. The shooting and training events will take place at the Deschutes County Fairgrounds (www.expo.deschutes.org). Programs and other related match information will be mailed out the first of April. A copy of the program is available at <http://www.nrahq.org/compete/dept-air-gun.asp>. If your club or shooting organization would like an invitation, please call 800.NRA.3888, option 6, ext. 1477 or email rifle@nrahq.org. If your club/team is interested in attending and need a sponsoring organization, please give the NRA a call to assist you with this.

7. UNITED STATES ARMY MARKSMANSHIP UNIT JUNIOR SMALL-BORE RIFLE CAMP

The United States Marksmanship Unit International Rifle Section will be hosting a Junior Smallbore Rifle Camp from 14-18 August, 2006 at Ft. Benning (Columbus), GA. The camp has been designed for the intermediate to advanced shooter. Shooters between the ages of 13-20 (with a minimum 2 years competitive experience) are eligible to register.

The camp will be staffed by USAMU International Shooters including the World Record holder and World Champion, Jason Parker; World Record holder and World Champion, Thomas Tamas; and Olympic Silver Medalist, Michael Anti. The coaching staff will provide a safe, enjoyable learning experience that will significantly contribute to improving your shooting skills. Shooters will be coached in the fundamental principles and techniques of 3-position and International air rifle. For complete camp details, visit http://www.odcmp.org/0406/USAMU_Smallbore_Jr_Camp.pdf or contact MAJ Anti at 706-545-9169/2343 or email michael.anti@us.army.mil.

8. 2006 THREE-POSITION SUMMER YOUTH AIR RIFLE CAMP

2006 Three-Position Summer Camp schedule is posted on the web and only a few spots are left! The dates for remaining camps and application forms are posted at <http://www.odcmp.com/Programs/camp.htm>.

9. FOSSILS OF THE BLACK BELT - A HANDS-ON FIELD WORKSHOP
Visit and collect at some of Alabama's most famous fossil localities!

Where: University of West Alabama in Livingston and vicinity.

When: Tuesday, October 24, 2006, 7:30 am to 4:30 pm.

Cost: \$15 (preregistration required)

You will receive: A certificate of participation indicating that you earned 8 C.E.U.'s, a field guidebook, the wonderful book Lost Worlds in Alabama Rocks (a \$25 value), a geologic map of Alabama, fact sheets on Alabama fossils, a selection of fossils from other parts of the state, and a fossil kit you will make as part of the workshop.

Who Should Attend: In-service and pre-service science teachers who will be teaching earth science or other science courses with earth-science components.

Contact: Dr. David C. Kopaska-Merkel, Geological Survey of Alabama, P.O. Box 869999, Tuscaloosa AL 35486-6999. Phone: (205) 553-2284. FAX: (205) 349-2861. Email: davidkm@gsa.state.al.us

Registration Form

Name: _____ Position: _____

School: _____

Address: _____

Home phone: _____ School phone: _____

FAX: _____ Email: _____

____ Yes, I plan to attend the Hands-On Field Workshop in Paleontology. I enclose the \$15 preregistration fee.

REGISTER SOON. Attendance is limited to 39! Late registrants will be placed on a waiting list and included if possible. A more detailed schedule, including map and directions, will be mailed to preregistrants before the workshop.

Return to David Kopaska-Merkel, Geological Survey of Alabama, PO Box 869999, Tuscaloosa AL 35486-6999. Make checks out to GSA -Educational Fund.
Schedule

7:30-8:15 am: Registration and Orientation (at the University of West Alabama, Livingston)
8:15-1:00 pm: Field trip to Cretaceous of west Alabama, Sumter County
1:00-1:30 pm: Box lunch (provided)
1:30-4:00 pm: Curriculum development workshop (at UWA, Livingston, AL)

Previous workshops held in 1997, 1998, 2001-2005!

Fossil Field Workshop for Teachers

David Kopaska-Merkel
Geological Survey of Alabama
PO Box 869999
Tuscaloosa, AL 35486-6999

10. NEW POSTER TEACHES BENEFITS OF HEDGEROWS

Educational poster field guide "Puget Sound Hedgerows: Living Fences for Fish & Wildlife" published by Good Nature Company and created by Montreal painter Suzanne Duranceau illustrates the beauty and benefits of hedgerows in the Puget Sound region and features more than 25 species of native plants and wildlife.

<http://eelink.net/cgi-bin/ee-link/newclick/505667>

11. SALMON SALLY'S UPSTREAM SPRINT

Online game from Rainforest Heroes. Help Salmon Sally get back to the river where she was born and swim upstream to the home of her friend Sappy, a young tree living in the heart of the Great Bear Rainforest.

<http://eelink.net/cgi-bin/ee-link/newclick/505668>

12. ZEROFOOTPRINT

Zerofootprint (ZFP) is a global green lifestyle hub bringing together green people, products, stories and events.

Check out the Green Events calendar for an extensive listing of global opportunities and add your own event:

<http://eelink.net/cgi-bin/ee-link/newclick/505662>

Catch up on the latest "Stories of Sustainability" on ZFP:

<http://eelink.net/cgi-bin/ee-link/newclick/505663>

Take the ZFP challenge -- "Small Ideas to Change Our Planet":

<http://eelink.net/cgi-bin/ee-link/newclick/505664>

<http://eelink.net/cgi-bin/ee-link/newclick/505665>

13. TAKE SPECIAL CAUTION WITH AQUARIUMS

Who would have ever thought a fish aquarium could be a risky place for kids? Recent findings from Australia, published in the March edition of *Emerging Infectious Diseases*, confirm that aquariums can harbor bacteria dangerous enough to land the most vulnerable among us in a hospital. A source of infection was shown to be a drug-resistant strain of *Salmonella paratyphi B*. The infection was traced via DNA analysis to home aquariums, according to a report in a recent *New York Times*. Aside from children, the very old and immunocompromised people are considered especially vulnerable to exposure to this pathogen.

Typically, risks associated with aquariums arise during periodic cleaning, especially when this occurs in kitchen and bathroom sinks and bath tubs --- all places where the pathogens can be readily spread to other sources. For this reason, health authorities stress that people, especially parents, should be extra careful when cleaning out home aquariums.

"There's an old song that you can't take a goldfish for a walk, so don't try and pick him up and carry him with you," observes Dr. Jean Weese, an Alabama Cooperative Extension System food scientist and Auburn University professor of nutrition and food science.

While some people may assume that filters protect against these pathogens, "bacteria such as *Salmonella* are just passed through and proceed right along," Weese says.

As a general rule of thumb, people should be wary of handling any kind of animal --- reptile, bird or mammal --- and, by all means, should wash their hands immediately after contact with them or their habitats, she says. Indeed, aquariums are only one of many sources of potentially deadly salmonella. Several years ago, for example, pet shop owners were warned about the risks of exposing nursing home residents and day care children to exotic pets such as iguana lizards and birds, both of which are known to harbor salmonella.

Moreover, Weese stresses that kitchen sinks are not the appropriate place for cleaning aquariums or for any other chore except food preparation. Bathroom sinks and tubs also should be avoided. A far more suitable place, in terms of hygiene, would be outside, using the garden hose.

In addition, children should not be permitted to play with items in the aquarium during cleaning.

Source: ACES Web Page (<http://www.aces.edu/>)-4/18/06

14. RUNS ON LIGHT. EASY TO PARK. AND YOU CAN'T SEE IT.

James Tour's custom auto shop is no haven for grease monkeys. Its walls are white, its equipment glistens, its "mechanics" are gunning for PhDs. And the cars? You need microscopes powerful enough to detect single atoms in order to see them.

Late last year, Dr. Tour and his Rice University lab unveiled the world's first nanocar chassis - an H-shaped molecule with wheels crafted like tiny soccer balls. Now, they've added a motor.

The ultimate goal: to build molecular machines that can mimic nature's ability to transport and assemble tiny building blocks of matter into ever-larger structures.

The project is one small piece of a globe-spanning research effort where "big" is defined as anything larger than 100-billionths of a meter (or about 1/800th the thickness of a human hair). At these scales, materials exhibit unique properties that scientists are trying to harness to build quantum computers; highly sensitive sensors for environmental and medical use; and light, rugged materials for a host of other applications. It's a technological trajectory in which the components become so small that extremely complex devices - say, a Star Trek-like tricorder - may not be too far away.

Biology provides the blueprint for Tour's nanocar work. Key chemicals called enzymes "zip things together. They're nature's little machines," he says.

So the challenge for scientists is to see if they can use small entities such as nanocars to move atoms back and forth predictably and build something, such as highly compact and powerful computer memory chips, Tour says. Eventually, he'd like to have lots of these vehicles "programmed to move back and forth to assemble much larger structures."

That vision moves far beyond products today that claim a nanotech pedigree. Last month, the Woodrow Wilson International Center for Scholars in Washington, D.C., unveiled a new database for tracking consumer products that claim to use some form of nanotechnology - from tennis rackets and hockey sticks using new composite materials to computer chips and sunscreen. Forbes magazine has added a list of Top 10 nanotech products to its annual set of listings.

Yet these products represent low-hanging fruit - using nanoparticles in sunscreen, for example, to enhance its ability to block sunlight without coating a person's nose with a thick layer of white goo. Tour's effort, by contrast, typifies the challenges researchers face in building the minuscule hardware and vehicles to do the light lifting for bottom-up construction. For all the effort countries worldwide are pouring into nanotech research, many of the tools researchers use are crude, he acknowledges.

His approach to building the chassis is the epitome of mass production. He uses a soup of organic chemicals and processes similar to those used to make pharmaceuticals. The molecular vehicles - the fleet has grown to include trucks and half-trucks - essentially assemble themselves by the millions of billions. The chassis measure a Lilliputian 4 nanometers by 3 nanometers (three-billionths of a meter). It took eight years to produce the first cars, Tour says. It took two years to get images of the vehicles.

Finding an engine, the latest wrinkle, took a relatively quick four months. He and his team have added a paddle-shaped molecule to the crosspiece linking the front and rear axles. When light strikes the molecule, the paddle flips around, much like a riverboat's paddle wheel.

But when the team added the motor, they also had to hunt for a new set of tires. The original carbon buckyballs (geodesic shapes invented by Buckminster Fuller) sapped the energy directly from the motor before the paddle could flip. Such are the unusual effects when driving at the nano scale. The team's results were published recently in two peer-reviewed journals. So far, the team has successfully tested the motor with the car, in effect, still up on the jacks. The next step is to put it on a flat surface of atoms and see if it scoots under the power of its light-fueled motor.

Selecting the right surface is crucial. And it's a potential two-edged sword. If a metal surface prevents the motor from operating, and the motor can't be "insulated" from the inhibiting effects, the team will have to select a nonmetal surface. But that would require using different microscopes to track the motion - and perhaps lead to less convincing images of what's taking place.

"We have to get the imaging down better," he adds. Still, the showroom is gradually filling. "We're probably going to be coming out with four, or five, or six new models in 2006," Tour says.

Source: Peter N. Spotts, The Christian Science Monitor, 4/20/06

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"Teaching a child not to step on a caterpillar is as valuable to the child, as it is to the caterpillar."

--Bradley Miller