

The Umstead Coalition Newsletter

Spring 2000

Noise and Operations Monitoring System for the RDU Airport

Noise and operations monitors will become increasingly important as the airport considers and designs major airport projects in the near future for RDU. For example, the expansion of terminal A, interim gates, capital upgrades to the general aviation/cargo area, and future third runway. Most major airports have NMS.

The Airport Noise Abatement Committee (ANAC) of the RDU Airport Authority recommended in October 1998 that the Airport Authority (AA) purchase a permanent Noise Monitoring System (NMS) for RDU. The City of Durham, Town of Cary, Wake County Commissioners, and the Umstead Coalition have formally endorsed the ANAC request.

In November 1999, the RDU Airport Authority agreed to "move forward." In January 2000, the Airport Authority budgeted \$60,000 for Harris, Miller, Miller & Hanson Inc. (consultants in noise and vibration control) to study and recommend system designs for permanent noise monitoring at RDU. The Airport Authority draft objectives for the NMS include (paraphrased):

- Quantifying noise impacts at the locations of the fixed-site monitoring;
- Timely production of annual noise contours in order that the Authority can document the aircraft noise environment described by the noise contours and changes thereto;
- Making data from the noise and operations monitoring system available to the public; and
- Enhancing the Airport Authority's relations with the community by monitoring the actual noise and making noise monitoring information (more readily) available.

(Airport Noise Monitoring continued on page 4)

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The Umstead Coalition presents



2000
Celebration
for Umstead

**SATURDAY
APRIL 22, 2000
(30th anniversary
of Earth Day!!)**

Let's Celebrate the Park!

This year's Celebration comes on *Saturday, April 22, the 30th Anniversary of Earth Day*. The Celebration is a community event for the appreciation, use, and preservation of William B. Umstead State Park and the Richland Creek Natural Area. The Celebration combines fundraising with other activities. Come to any or all of the events:

- A 6K (3.4 Mile) walk / fun run in the Natural Area of Umstead. Participants can get pledges to raise money for the Park State Park. (music and free refreshments along the way)
- Music (Bett Padgett; Victoria Axelrod; Larry Nixon, David Blevins and Steven Gage and more!)
- Environmental Education Exhibits
- Free Food near the music stage
- Door Prizes

Funds raised will be used to support environmental education and land acquisition for Umstead State Park.

To pre-register for the fund-raising walk, fill out the Registration form on PAGE 2 and mail to the Umstead Coalition, Box 10654, Raleigh, NC 27605. Bring the filled out pledge form on page 3 with your pledge payments to the Celebration event. (forms also at: <http://umsteadcoalition.org>)

Minimum requested pledge for the Fun Run is \$25 for adults, \$10 children under 12. People who want to attend the Celebration but not participate in the Fun Run / Walk should make a \$25 donation. Staff volunteers get free entry.

To VOLUNTEER to be on the Celebration staff or to get more information, contact:

Umstead Coalition office phone: (919) 852-2268

Umstead Coalition Web site: <http://umsteadcoalition.org>

Registration Form 2000 Celebration for Umstead

Please complete registration and mail

The Umstead Coalition
P.O. Box 10654
Raleigh, N.C. 27605

2000 Celebration for Umstead Registration Form

Name _____

Address _____

City _____ State _____ Zip _____

Phone (h) _____
(w) _____

E-mail address _____

My goal is to raise \$ _____ for the preservation of
William B. Umstead State Park.

Team Registration (if applicable)

Team Name _____

Team Captain _____

Minimum total donations or entry fee:
Adults, \$25; Children (12 and under) \$10

Participants get free T-shirt with \$35 in donations;
children (12 and under) with \$20.

Wilderness First Aid Classes

April 8-9 (Charlotte) and **April 29-30 (Raleigh)**. An eighteen-hour, two-day class in Wilderness First Aid will be conducted in Charlotte and Raleigh, NC.

The course includes classroom study, hands-on practice, and results in a two-year certification. The class does not include CPR certification. It provides an in-depth introduction to patient assessment, musculoskeletal and soft tissue injuries, splinting, and a variety of other topics.

The cost is \$140. Registration is on a first-come, first-served basis. For additional information phone (703) 836-8905 or visit <http://wfa.net>.

Other dates and places of classes are listed at <http://wfa.net>. WFA is a not-for-profit organization in Alexandria, VA.

"Celebration for Umstead" Profile: Musician Bett Padgett

Bett Padgett, a native of Durham, remembers the day in the late 50's or early 60's when her new neighbors moved in the beautiful big white house next door. Merle Umstead and her daughter "little Merle". Mrs. Umstead seemed to enjoy visits from the neighborhood kids, sharing home baked goodies and telling them stories. So, it's no surprise that Umstead State Park has been a very special place to Bett and her family who make treks nearly every evening to run and play with the dogs, or just enjoy the outdoors. Bett, guitar instructor at North Carolina State University for twenty years, and singer/songwriter for ten years has felt inspiration in the wilderness at Umstead Park and Schenk Forest to write music and lyrics.

Bett does not write the typical folk song, pop song, country or jazz song. Her music is in a class all to itself, as it can't be compared to any other. She takes stories, legends, history and present events and sets them to music after careful research. She weaves pictures and emotions together through a combination of lyrics and imaginative melodies. She is dedicated to preserving traditional songs through new arrangements and to keeping alive the concept of ongoing folk music. She strives to instill interest in songs of the past, which are quickly being forgotten, as they are not a part of today's music education.

Her song: *Hatteras: If a Lighthouse Could Speak* took her to Manteo, NC to speak at a public hearing in favor of moving the lighthouse, a momentous event in North Carolina's history. The CD *Hatteras: If a Lighthouse Could Speak* is a tribute to the memories and love people have of the Cape Light. She has found working on this project to be a most rewarding experience, meeting people who have grown up knowing the lighthouse and hearing many heartfelt stories. Bett felt it necessary to save the lighthouse in order to preserve a part of North Carolina's rich history. She was an advocate of the relocation due to the environmental dangers to our volatile shoreline. To celebrate the successful relocation Cape Hatteras National Seashore will receive 50% of the profit from sales of the CD. She is honored that the CD is carried in the National Park Bookstore and to be asked by the National Park Service to sing at the relighting ceremony in November. Music from the CD has been used in numerous documentaries and featured in North Carolina magazines and publications.

Bett has graced the stage in many venues over the years, but recently has discovered that her most favorite places to play are where people are gathered for a specific purpose such as outdoor festivals. She particularly enjoys donating her talent to events to raise conscious for environmental and preservation concerns. You can catch her on April 22, 2000 (also Earth Day) at the Celebration for Umstead. No doubt you will hear her sing some folk songs of the Ebenezer community. And no doubt she will be thinking about Merle Umstead and those home made cookies!

You can hear sound clips from her recordings and learn more about her through her website: www.bettpadgett.com

2000 Celebration for Umstead Pledge Form

Please make checks payable to : The Umstead Coalition

Marcher's name _____ **e-mail** _____
Mailing address _____ **Apt. #** _____
City _____ **State** _____ **Zip** _____
Phone number (_____) _____ **Age** _____ **Gender** ___ M ___ F

Supporter's Name	Supporter's address	Pledge
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Please attach separate sheet for additional supporters.
Total donations collected \$

WAIVER: The undersigned hereby knowingly and willingly releases, remises and forever discharges and agrees to indemnify, defend and hold harmless the National Parks and Conservation Association, its local March partners, employees, officers, trustees, agents, sponsors and permitted assigns (collectively "NPCA") from all losses, liabilities (including liability for attorney's fees), claims, damages, and costs (known collectively, "losses") that may now exist or may hereafter arise in negligence or reckless behavior of NPCA.
 IMPORTANT: MARCHERS UNDER AGE 18 MUST ALSO HAVE THIS FORM SIGNED BY A PARENT OR GUARDIAN.

Signed: _____ **Date:** _____

Minimum total donations or entry fee: Adults, \$25; children (12 and under) \$10.
Adults get free T-shirts with \$35 total donations, children (12 and under) with \$20.

(Airport Noise Monitoring continued from page 1)

The Chairman of the ANAC is appointed by the Chair of the Airport Authority. The current Chairman of the ANAC is Airport Authority member James Hyler, Jr. (Wake County's appointee). Mr. Hyler convened one meeting of the ANAC in 1999 (December) and again in February 2000. The ANAC members have made specific recommendations to the Airport Authority to enhance the objectives to include more frequent contours (e.g., quarterly, monthly), enhance the types of information that will be available to the public, and set a target date for system installation and operation.

A NMS would increase the accuracy of noise contours and allow for timely generation of the noise contours. Annual noise contours are currently produced for RDU. However, the contours are based upon a summary of aircraft engine types and estimated with models. The contours are verified with a limited amount of noise monitoring from portable monitors. The current system requires a tremendous amount of manual data entry and manipulations. As a result, the last completed contours are for 1997.

There are a large number of quality noise monitoring systems on the market which have similar features and provide reports. In 1998, the RDU ANAC saw demos of the Tracor Inc. (hardware and software) and the LeTech Inc. (software only) systems. ANOMS (Airport Noise and Operations Monitoring System) is another widely used system, which is sold by the RDU noise consultant Harris, Miller, Miller & Hanson Inc. Tracor is used at Dallas Fort Worth Airport. The LeTech Inc. system is used by noise consultants for modeling. **Some features of noise monitoring systems include:**

- **Noise Monitors**
- **Flight Track and Operations Data (from FAA data tapes)**
- **Air Quality and Meteorology (with an optional weather station)**
- **Land Use Analysis (optional software)**
- **Point and Click Report Generation**
- **Automatic Noise Contours**
- **Three Dimensional Animated Flight Tracks and Noise Events**

A permanent noise monitoring system meets the goals of a well informed public, with data supplied when people need it, not years later. It can provide information about single events, the kind of questions most asked.

Douglas Lintelman-RDU Airport Noise Abatement Committee Member (City of Raleigh appointee)

Editors note: The Umstead Coalition Airport Watch Committee continues to hold discussions with the RDU airport staff and Authority members to facilitate minimizing airport noise and development impacts on Umstead State Park. We have worked toward the establishment of permanent noise monitoring in Umstead State Park and neighborhoods around the airport for many years. Neighborhood groups have also worked on this effort.

RDU Airport Applies Nitrogen Fertilizer To Runways - An Environmental Concern

During the recent snow and ice storms, the RDU airport applied 60 tons of urea or **55,200 pounds of nitrogen** on the runways and some of the other payments on the airport property (as reported by the News and Observer on 2/2/2000). We have concerns regarding the environmental damage such a spike of nitrogen loading will have on the lakes and stream in Umstead State Park and also the downstream Neuse River.

The Neuse River is seriously polluted by runoff from various sources containing nitrogen nutrients. Due to the high nitrogen pollutant levels in the Neuse, the NC General Assembly enacted the NC Clean Water Act requiring an overall thirty percent reduction in nitrogen delivery to the Neuse River. This will require active participation by all land owners and dischargers.

Considering the airport is in the Crabtree Creek watershed, there is little doubt that much of the nitrogen applied to the airport runways and other pavement will find its way to the Neuse River. The sediment pond(s) that temporarily hold some of the runoff from the airport property provide little treatment of nitrogen fertilizer since most of the nitrogen will leave the site in the dissolved phase with the water flow. Much of the runoff from the airport runways flows into the streams and lakes in Umstead State Park and into Crabtree Creek.

It is certainly understood that airport operations and safety are prime considerations. However, there are other means that can be used for de-icing the runways. It has been reported that several nearby airports have chosen to use acetate-based de-icers in place of the urea. The higher cost has been given by the RDU airport staff as the reason for not making use of the acetate-based de-icers. It seems the much higher cost is the damage to the environment and society. The situation is even more severe because the application of fertilizer was applied as a spike/shock to the water environment. For example, the drinking water supply in Greensboro and High Point following the recent snow/ice storms has been degraded due to the use of fertilizers as de-icers (News and Observer, 2/7/00).

Considering the infrequent need for runway de-icing at RDU the average cost over several years for the acetate-based de-icing material should not be difficult to manage.

The Umstead Coalition has made a request to the RDU airport and the Department of Environment and Natural Resources that the airport:

- *Donate any remaining urea fertilizer to nearby farming operations;*
- *Purchase acetate-based de-icing material;*
- *Institute a policy of not applying nitrogen-based de-icing products on pavement; and*
- *Add nitrogen discharge concentration and loading limits to their NPDES storm water permit.*

(Airport Con't)

To emphasize our concern, let's put some numbers in perspective:

- 60 tons of urea contains **55,200 pounds of nitrogen**. The price of a 50 pound bag of urea at Southern States is \$9.30 or **\$0.186 per pound of urea or \$0.404 per pound of nitrogen**. With no reduction assumed for volume sales, 60 tons of urea would cost **\$22,320**.

Even if acetate-based de-icing material was 10 times the cost of urea, the cost would have been \$223,200 – far less than the millions that Raleigh and Cary just spent on upgrading their sewage treatment plants. And far less than the farmers in the Neuse River Basin have spent in best management practices and operational upgrades to reduce nitrogen losses to the Neuse River Basin.

- The Town of Cary's North wastewater/sewage treatment plant discharges 5.5 MG/day or 2,007 million gallons per year (365 days) with a maximum discharge limit of 3 mg N/l into Crabtree Creek. Utilizing the conversion factor of 8.34 to convert each mg/l concentration of pollutant in one million gallons to pounds, the Cary's North plant discharges an estimated nitrogen loading into Crabtree Creek of **50,228 lbs. per year** of nitrogen. The North Cary plant treats approximately 50% of Cary or 45,000 residents plus commercial/retail uses. Cary recently spent **millions of public dollars** to substantially reduce its nitrogen discharge levels to 3 mg N/l.
- For an interesting comparison, raw sewage entering a typical sewage treatment plant is typically about 60-70 mg N/l.
- The City of Raleigh has one sewage treatment plant and it discharges into the Neuse River basin at a rate of 35 MG/d. For a cost of over **\$8,000,000** the City of Raleigh recently completed upgrading their plant to reduce their discharge concentrations from 20 to 6 mg N/l. This resulted in an estimated **reduction** of nitrogen loading to the Neuse River of **1,491,609 pounds of nitrogen per year** to a current level of about **639,260 pounds of nitrogen per year**.

Raleigh's \$8,000,000 investment is equivalent to \$5.26/pound of nitrogen that have been prevented from entering the Neuse River (calculation was simplified and didn't account for amortizing over the life of the upgrade).

- It's also interesting to compare the nitrogen utilized by the airport in this de-icing event to the amount of nitrogen in the waste of animals. To produce 55,000 pounds of nitrogen in the **untreated waste** (as if the animals made direct deposits to the stream) it would be equivalent to (but, this would be distributed over a full year and **prior** to required treatment.):

2,150 finishing hogs/year
240 dairy cows/year
68,500 chickens/year
16,200 turkeys/year

HOWEVER, as required by NC and federal regulations, animal waste is usually treated by a series of treatments which reduce the nitrogen content **substantially** and then usually applied to farm land as fertilizer which is taken up by the growing plants – hence, much of the nitrogen does not reach the water system.

- 55,200 pounds of nitrogen would be equivalent of about 15,000,000 gallons of hog waste that has already undergone treatment by lagoons and then piped directly into the Neuse River (note: direct piping of manure is **not** an allowed practice in North Carolina).
- 55,200 pounds of nitrogen could be used to fertilize about 275 acres of corn or hay.

We also have a concern regarding the effects of the **glycol-based de-icing solution** for de-icing the flight surfaces of aircraft before take-off. Ethylene glycol is known to be an environmental hazard. Chronic toxic effects may include shortened lifespan, reproductive problems, lower fertility, and changes in appearance or behavior. Chronic effects can be seen long after first exposure(s) to a toxic chemical. Ethylene glycol has been demonstrated to have a moderate chronic toxicity to aquatic life.

Currently, RDU airport does not attempt to collect and then treat or recycle/reuse this material. In contrast, other airports have taken steps to recover the ethylene glycol (<http://www.airportnet.org/depts/publications/airmags/am7892/environment.htm>). Since it is used in a rather defined area – near the passenger gates - it is possible to collect much of the material with a properly constructed drainage system.

- Bob Morris and Jean Spooner



The weather outside was frightful..

The surprise blizzard January 24, 2000 dumped dumped knee-deep snow on the Park and bent over many trees. The Park was closed from Jan. 25 to Feb. 2nd. Little permanent damage was done to plants or animals.

William B. Umstead State Park Visitor Center Programs - Free

<http://ils.unc.edu/parkproject/wium.html>.

Please call the Park Visitor Center at 571-4170 for more information and reservations.

March 25th : PADDLING ON BIG LAKE

Join a Ranger for a leisurely canoe trip around a portion of Big Lake. Experience spring season from the water's edge. Meet the Park Ranger in the Big Lake parking lot where canoes, life jackets, and paddles will be provided. Dress in appropriate clothing that you won't mind if it gets wet. Spaces are limited so **reservations are required for this program**. Program from 8:30am -- 11:00 a.m. Children under 18 must be accompanied by an adult.

April 1st : APRIL FOOLS

Join a Ranger at the Reedy Creek parking lot for a 1 mile hike at 10:00am. We will talk about some of the 'April Fools' of the park...animals that are likely to be getting in gear for the coming spring and summer at William B. Umstead State Park.

April 9th : SPRING TREE IDENTIFICATION

Meet at the Visitor Center at 10:00am. Walk Sal's Branch Trail with a Ranger and learn a variety of trees that are sprouting a new season's leaves. The hike will last approximately 1 ½ hours.

April 9th : BIRDS OF PREY

Learn about those magnificent hunters from above. Mounted and live specimens will be used for up close viewing. Meet at the Visitor Center at 2:00pm for this 1 ½ hour program.

April 15th : WILDLIFE HIKE

Meet a Ranger at 9:00am at the Bike and Bridle Trail Head for this one hour hike. Bring your binoculars and walk through the woods of William B. Umstead State Park to discover animal signs.

April 15th : FIELDS TO FORESTS

Hike with a Ranger for two hours through the forests of William B. Umstead State Park. Learn how these forests, through the process of succession, developed from farming fields. Meet at the Park Visitor Center off the Highway 70 entrance at 10:00am.

May 6th : NATURE'S ENGINEERS

Meet a Ranger in the Reedy Creek parking lot at 2:00pm. We will talk about Beavers and how they change the ecology of the area. Bring your boots and look for the Beaver's trademark tree stumps.

May 7th : COMPANY MILL HIKE

Hike with a Ranger to the Company Mill site and learn about the grist mill that once operated at this site. Meet at the Reedy Creek parking lot at 2:00pm. The hike is approximately 2 miles and will last 1 ½ hours.

May 13th : BIRDS OF PREY

Learn about those magnificent hunters from above. Join a Park Ranger and a falconer to learn about the raptors of this area. Live specimen on hand. Meet at the Visitor Center at 2:00pm for this 1 ½ hour program.

May 20th : BIG LAKE BY BOAT

Paddle Big Lake in search of fauna and flora. Meet a Ranger at the boat house at 9:00am (1 ½ hour program). **Space is limited so reservations are required!** Some canoe skills are necessary. Canoes, life jackets, and paddles will be provided. Dress in appropriate clothing that you won't mind if it gets wet. Children under 18 must be accompanied by an adult.

May 21st : OH DEER!

Meet at the Park Visitor Center, located off the Highway 70 entrance, at 1:00pm. Join a Ranger for a hike through deer habitat for a discussion on the life cycle of the Eastern White-tailed deer. This program will last approximately 1 ½ hours.

June 3rd : SUMMER BLOOMS

Meet a Ranger at the Park Visitor Center, located off the Highway 70 entrance, at 10:00am for a description of some of the summer Wildflowers found in the park. There will be a short slide show presentation and a walk along Sal's Branch to try to find some of them.

June 17th : CCC AT CRABTREE CREEK

Civilian Conservation Corps operated a camp in Crabtree Creek Recreational Demonstration area - what came to be William B. Umstead State Park. Watch a slide show of the construction of park facilities by the CCC and WPA (Works Progress Administration). The program starts at 2:00 in the Visitor Center Auditorium and will last approximately 1 hour.

June 18th : DISCOVERY HIKE

Join a Ranger for a leisurely hike to discover the sights and sounds of William B. Umstead State Park. Meet in the large picnic area parking lot, located off the Glenwood Avenue/Hwy 70 entrance at 2:00pm. This program will last approximately 1 ½ hours.

June 24th : TREE LEAF IDENTIFICATION

Learn how to identify trees by their leaves. If you have a tree identification book bring it with you! Meet a Ranger at 9:00am in the small parking lot off the Glenwood Avenue entrance for this one hour hike.

June 24th : WOODS WANDER

Meet a Ranger at the small picnic area observation deck at 1:00pm. You will join a Ranger for a short hike on and off trail to discuss natural forest processes and wildlife habitat. Program is approximately 1 ½ hours.

June 25th : WOODS WANDER

Meet a Ranger at the small picnic area observation deck at 1:00pm. You will join a Ranger for a short hike on and off trail to discuss natural forest processes and wildlife habitat. This program will last approximately 1 ½ hours.

July 16th : WORLD WAR II AT CAMP CRABTREE

During World War II, the Civilian Conservation Corp (CCC) camp was used by the U.S. military to provide recreation to foreign sailors while their ships were being repaired. Come look at some photographs of this era. The slide show starts in the Visitor Center Auditorium at 2:00pm and lasts approximately 45 minutes.

July 22nd : FROM FIELD TO FOREST

Meet a Ranger at the Bike and Bridle Trail Head at 10:00am for this 1 ½ hour program. Bring your binoculars if you have them and hike through areas of William B. Umstead State Park to learn about its history.

July 22nd : LUNCH HIKE WITH A RANGER

Join a Ranger at 1:00pm at the Oak Rock Trail Head parking area for a short hike to discuss nature and William B. Umstead State Park. This program will last approximately 1 hour.

July 22nd : ROT SQUAD

Join a Ranger at the Oak Rock Trail Head parking lot at 3:00pm. This 1 hour program will be a short hike down Oak Rock Trail to discuss how a forest recycles itself.

July 23rd : ROT SQUAD

Join a Ranger at the Oak Rock Trail Head parking lot at 1:00pm. This 1 hour program will be a short hike down Oak Rock Trail to discuss how a forest recycles itself.



Umstead Coalition Spring Activities

For information on where and when to meet, call the activity leader listed. Activities are free; as activity leader about bringing dogs, children. Note: For all Rod Broadbelt's hikes, bring lunch and water; call 363-6611 before 8:00 p.m. for details.

March 18 *Wilderness Hike*, 5-6 hours. Meet 8:00 a.m. on Ebenezer Church Road next to Crabtree Creek bridge (just downhill from J&H Stables). Bring lunch and water. Could be very wet area so wear your best hiking boots. For information: Rod Broadbelt 363-6611 before 8:00p.m.

March 25 *Volunteer Park Work Day*. For information: Tom Weber463-0104.

April 1 *Wildflower Hike*. For information: Frank Briden 844-1566.

April 8 *Forest Community Types*. For information: Mark Wolinsky 755-9945.

April 15 *10 Mile Hike*. Will see some ruins and Sycamore Lake dam, some off trail hiking. Meet at Umstead Parking lot off Harrison Avenue at 8:00 a.m. For information: Rod Broadbelt 363-6611 before 8:00p.m.

April 22 **2000 CELEBRATION FOR UMSTEAD** - Earth Day (30 year anniversary). For Information call 852-2268; to volunteer call Tom Weber 463-0104.

April 29 *Nature Hike*. For information: Jennifer D' Arcy 782-6939.

May 6 *Park History Hike*.
For information: Tom Weber 463-0104.

May 13 *Nature Hike with the NC Parks and Recreation Naturalist*. For information: Tom Howard 556-7494 (h) or 846-9991(w).

May 20 *Volunteer Park Work Day*. For information: Tom Weber463-0104.

May 27 *Biodiversity Hike*. For information: Frank McKay 844-7436.

June 3 *Volunteer Park Work Day*. For information: Tom Weber463-0104.

June 10 *13 Mile Hike, Loblolly Trail to Carter Finley Stadium..* Meet at Umstead Parking lot off Harrison Avenue at 8:00 a.m. For information: Rod Broadbelt 363-6611 before 8:00 p.m.

June 17 *Richland Creek Stream Watch*. Help us monitor the health of Richland Creek. Meet 9:30 a.m. at Richland Lake on Reedy Creek Road (off Blue Ridge). For information: Richard Tibbs 468-8081 or Jean Spooner, 828-5859 (h).

July 15 *12 Mile Hike*. Meet at Umstead Parking lot off Harrison Avenue at 8:00 a.m. For information: Rod Broadbelt 363-6611 before 8:00p.m.



FESTIVAL FOR THE ENO

July 1, 2, and 4, 2000
(Saturday, Sunday, Tuesday)

For information on the Festival for the Eno 2000, contact Judy Allen of the Eno River Association 477-4549, or see the Eno River Association web site, www.enoriver.org.

Parking: Durham County Stadium
(Air conditioned bus ride to Park)

Membership Form *The Umstead Coalition is a 501(c)(3) organization. Donations are tax deductible.*

Return this form and a **membership check** to the Umstead Coalition, P.O. Box 10654, Raleigh, N.C. 27605-0654

New member _____ Renewal _____

Name: _____ Date: _____

Street: _____

City, State, Zip _____

Telephone (w) _____ (h) _____

Umstead Coalition Organizations you belong to: _____

email: _____

How did you hear about The Umstead Coalition?

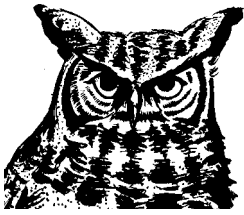
Membership (\$15) \$ _____

Additional donation: \$ _____

Total Amount enclosed: \$ _____

Please check activities in which you would like to participate:

- _____ Airport
- _____ Land acquisition
- _____ Duraleigh Connector Opposition
- _____ Leading hikes
- _____ Environmental education
- _____ Park service projects
- _____ Richland Creek Corridor/Streamwatch
- _____ Attending public meetings
- _____ Other: _____



The Umstead Coalition
 P.O Box 10654
 Raleigh, N.C. 27605-0654

Non-profit organization
 U.S. Postage
 PAID
 Raleigh, N.C.
 Permit No. 1306

Umstead Coalition annual dues: \$50 (organization), \$15 (family/personal)
 Please renew your membership for 2000!

Where to Find Information on the Umstead Coalition

Umstead Coalition's Web site: <http://umsteadcoalition.org>
 Office phone: (919) 852-2268

Send us your e-mail address and we can send an occasional message when news is breaking. Send your e-mail address to jean_spooner@ncsu.edu and state you want your e-mail address added to The Umstead Coalition's mailing list.

• • •

The Umstead Coalition meets the first Thursday of each month, September to May, at 7:00 p.m. in Bldg 7330 of the Chapel Hill Road Office Complex, on Hwy. 54 just east of the intersection of Hwy. 54 and Trinity Road. Go up the stairs on the outside of Bldg 7330, enter the building, and go to the N.C. Recycling Association suite.

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The Umstead Coalition

*B.W. Wells Association
 Capital Group Sierra Club
 Conservation Council of North Carolina
 Eno River Association
 Friends of State Parks
 Headwaters Group Sierra Club
 Neuse River Foundation, Inc.
 New Hope Audubon Society*

*North Carolina Herpetological Society
 North Carolina Wild Flower Preservation Society
 North Carolina Wildlife Federation
 Orange-Chatham Group Sierra Club
 Raleigh Ski and Outing Club, Inc.
 Rockingham Naturalist's Club
 Society for the Preservation of Jockey's Ridge
 Wake Audubon Society*

The Umstead Coalition is dedicated to preserving the natural integrity of William B. Umstead State Park and the Richland Creek Corridor.