

Final Lake Erie Protection Fund Small Grant Report

Funding from the Lake Erie Protection Fund has brought the Doan Brook several steps closer to an implementable watershed management plan in the last year and a half. According to an Ohio EPA Division of Surface Water publication "A Guide to Developing Local Watershed Action Plans in Ohio", (see attached) the first steps in developing such a plan are to: build public support, create an inventory of the watershed, and define the problems. We have focused on these areas in 1997 and 1998 and hope to continue with these steps as well as move forward to setting goals and developing solutions, creating an action plan, and implementing and evaluating that plan, as outlined by OEPA.

Project Summary and Results:

The project as proposed focused on two areas: 1. building support through non-technical coordination – financial, institutional, and public; 2. coordinating technical data collection. Progress has been made in each of these areas, though by a different mechanism than anticipated under technical coordination.

Building Support:

LEPF dollars were used to provide coordination and staffing for the Water Quality Task Force of the Joint Committee on Doan Brook. It was set up with a two-year charge in the spring of 1996 and is coming to its conclusion. The Task Force had continued meeting regularly until the spring of this year, and decided not to meet again until the end of summer. At its latest meeting the members listed accomplishments and possible future projects and agreed to continue to meet, though less frequently, to help give direction to watershed projects. During their time together under staffing provided by the LEPF grant, the members of the Task Force spun off the *Year of the Brook* steering committee, the CWRU senior projects, and the Northeast Ohio Regional Sewer District Study. Each of these brought institutional and financial resources to bear on projects relating directly to the improvement of the Doan Brook Watershed and Lake Erie.

The *Year of the Brook* steering committee raised \$38,000 of foundation dollars to continue specific efforts relating to increasing public awareness. In addition to organizing and planning the two vision sessions reported in the interim, the *Year of the Brook* steering committee has put together a schedule of events and activities to build awareness of and promote interest in the Doan Brook. These events include (* indicates an event coordinated by the *Year of the Brook* (YOB) program committee):

- *multiple Brook Walks with local community members, students, and community leaders
- *press conference covering the three-city proclamation of the YOB
- *"Doan Brook: Understanding and Protecting an Urban Stream and Watershed", a four evening course on the Doan
- YOB activities and presentations at the Nature Center's EarthDay, "Celebrate the Earth" event

YOB display and activities at the Children's Area of EarthDay Coalition's "EarthFest" celebration

YOB float and table of information at University Circle's "Parade the Circle" celebration
presentation at the Nature Center's "Breakfast with the Birds" event

*a YOB watershed wide Lolly the Trolley Tour and Ice Cream Social for 800 people with musical entertainment, games, and experts at nine stops along the tour route (see attached brochure)

*a two week Council on International Educational Exchange volunteer work camp to remove non-native plants and restore native plant species and clear debris from the channel

Nature Center's "Walk Through Time" and evening series on Shaker life and history (upcoming September 26th, November 10th and 17th)

presentation at the Shaker Heights Regatta (upcoming September 12th)

Additionally, a focus on schools and pre-college summer programs led to:

- presentations by naturalist Steve Seymour at 4 schools and 3 events as Nathaniel Doane in full 1778 costume and character
- lessons on the Doan Brook at Harry E. Davis Middle School and John Hay High School as part of the AQUACorps program at CWRU
- participation by students from three Elementary Schools in a University Circle Incorporated sponsored artist in residence program where they created music, song, dance, and other performances about the Doan Brook
- participation of 48 of CWRU's Office of Minority Programs CPEP and MEIOP summer program enrollees in science lessons about Doan Brook
- participation of 75 students from the Coventry Elementary School in Cleveland Heights in a Storm Drain Stenciling project

Technical Coordination

The CWRU senior projects were completed and presented at a public forum. Due to a change in research priorities for the advisor and waning student interest, second year projects were not possible. Originally designed to compensate for the lack of good scientific information about the Doan, the projects were replaced by the Northeast Ohio Regional Sewer District study. The NEORSD independently received \$2.4 million from USEPA, coupled with a \$2 million local match, to conduct a study of CSOs, water quality, runoff, and flooding on the Doan Brook. This effort, though not watershed management planning, will provide much of the technical data required to complete such a plan.

LEPF dollars were used to support the work of four different technical consultants and provided the impetus for a fifth. As reported in December two faculty members from CSU's College of Urban Affairs were hired to design and implement two visioning sessions to spark discussion about and identify priorities for the watershed. Additionally CWRU's Office of Student Community Service's Assistant Director of Environmental and Technical Service Learning, and an environmental engineering student/AmeriCorps member were contracted to coordinate the remaining senior projects and assist the task force with data collection and organization. This resulted in the formation of the Doan Brook Library at the Nature Center and publication in an engineering journal. A civil

engineer/professional photographer served as course coordinator for “Doan Brook: Understanding and Protecting an Urban Stream and Watershed”, a four evening course on the Doan Brook. The instruction manual (available upon request) for that course is the most comprehensive publication available about the watershed.

Because of the NEORSD study, little technical data is being collected by the Nature Center at this time. The staff of the study has worked very closely with the Nature Center over the past year as technical advisors to *Year of the Brook* committee members and Nature Center staff. As the study continues we hope to create a plan for long-term water quality, flood flow, and CSO monitoring with the help of the NEORSD and local scientists.

Support Material

- A Guide to Developing Local Watershed Action Plans in Ohio, Figure 1.3, page 6

Dissemination

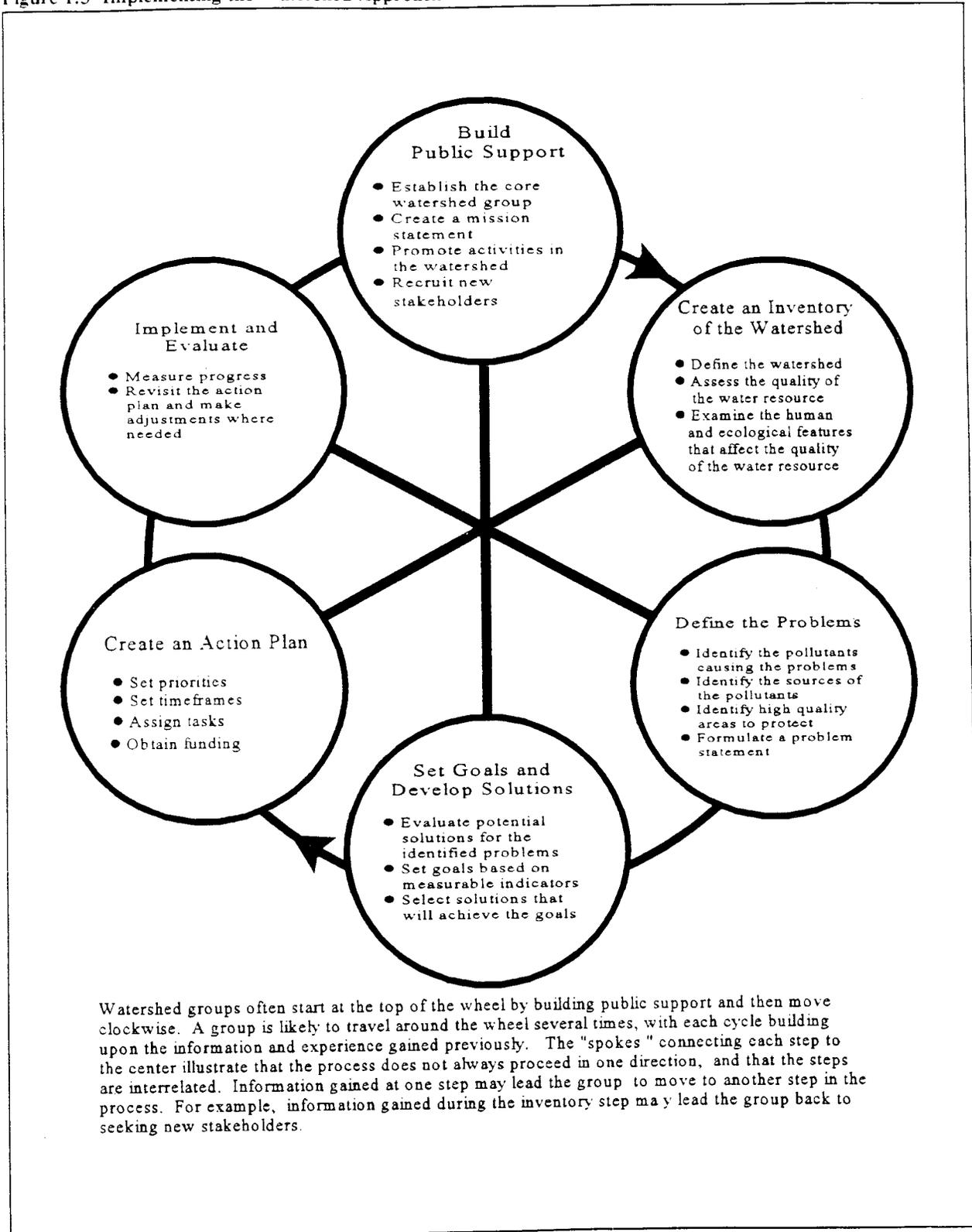
Information about the Doan Brook and the collaborative efforts surrounding it has been published in local papers and newsletters as well as broadcast on WEWS News Channel 5’s evening and weekend news report. Attached articles are listed below along with TV news appearances.

- Doan Brook Watershed Tour Guide
- Press packet photo for April 2nd press conference and Year of the Brook kick off
- Wednesday, April 2nd air time on WEWS Channel 5’s evening newscast
- Saturday, April 5th air time on WEWS Channel 5’s midday newscast
- Wednesday, April 8, 1998 *Plain Dealer* Metro Section page 1, “Quiet Flows the Doan”
- Thursday, April 16, 1998 *The Sun Press* Section A page 3, “Nature Center Bubbles...”
- Sunday, July 5, 1998, *Finast Sunday Circular*
- Sunday July 12, 1998, *Finast Sunday Circular*
- Thursday, July 16, 1998, *CWRU Campus News* page 3, “Learn about Doan Brook...”
- Friday, July 17, 1998, *The Plain Dealer*, Weekend Section, “Doan Brook Explored at Festival”
- Saturday, July 18, 1998, City of Cleveland Heights Mayoral Proclamation supporting Year of the Brook
- Thursday, July 23, 1998, *The Sun Press* Front Page “Trolley Tour Along Doan Brook...”
- July/August 1998, *Shaker, The Community Magazine*, “A Brook Runs Through It”

Next Steps

In a continuing effort to build support for the protection of the Doan Brook and Lake Erie, proposals are currently being developed to sustain the effort over the next few years. Those proposals are targeted at foundation sources and include educational events, a speakers’ bureau, volunteer water quality monitoring, watershed restoration, and research on the role of local governments in funding and planning watershed initiatives. The long-term objective of these efforts is to build capacity for future research and projects that will ultimately lead to an increase in water quality on the Doan Brook and in Lake Erie.

Figure 1.3 Implementing the Watershed Approach



Watershed groups often start at the top of the wheel by building public support and then move clockwise. A group is likely to travel around the wheel several times, with each cycle building upon the information and experience gained previously. The "spokes" connecting each step to the center illustrate that the process does not always proceed in one direction, and that the steps are interrelated. Information gained at one step may lead the group to move to another step in the process. For example, information gained during the inventory step may lead the group back to seeking new stakeholders.

Nathaniel Doane



Photo by Laura Gooch

“Nathaniel Doane,” as played by Steve Seymour
First to settle in University Circle along the Doan Brook, 1778
Glossy photos available at Press Conference or by request, 321-5935



LYNN ISCHAI / PLAIN DEALER PHOTOGRAPHER

Pupils from Wade Park Elementary School learn about the nature and needs of Doan Brook from naturalist Steve Seymour, who portrays 1798 settler Nathaniel Doan.

Quiet flows the Doan

But preservation of the brook and its watershed has sometimes proved controversial for the three communities it runs through

By GRANT SEGALL
PLAIN DEALER REPORTER

River otters splashed in the brook by the Doans' new cabin 200 years ago. The brook was clear and lovely, with none of the disease-bearing mosquitoes that had driven the family a few miles eastward from a 2-year-old settlement called Cleaveland.

The otters are long gone, but mallards, wood ducks, bluejays and deer still frequent Doan Brook. And, during this precocious springtime, so do chives, trout lily blooms, yellow-rumped warblers and rufous-sided towhees.

But Doan Brook is not quite as clear and lovely as in its namesakes' day. Oily bubbles gather at some of the bends in its 7.8-mile course. Bits of paper, brick and rubber dot the banks. So do non-native species, from garlic mustards to daffodils. Amur — fish imported from China — ply the waters for algae.

Humans have reshaped the Doan. The Shakers built dams during the 1800s to make two lakes. Engineers later reinforced two miles of the banks and burned another two miles of the brook

For better or worse, the Doan has become a city stream.

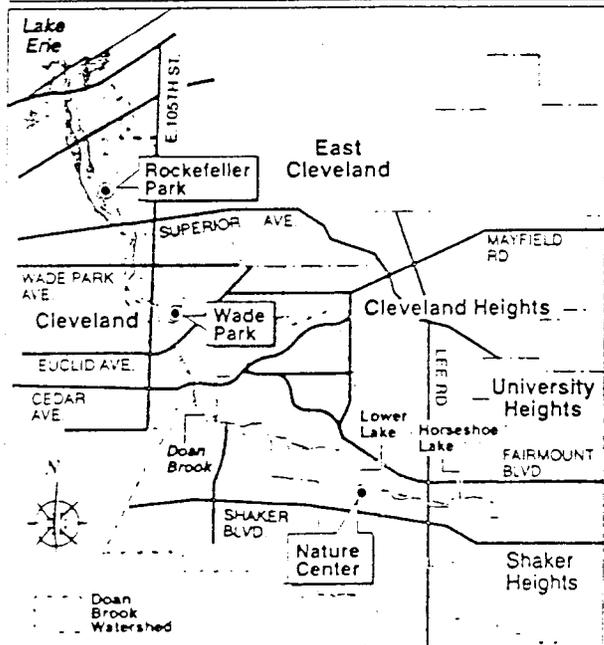
"It is a wonderful resource," Joanne O'Brien, vice mayor of Cleveland Heights, said last week during the kickoff of the "Year of the Brook." Residents and tourists walk, jog, bicycle, roller-skate and take in the sights along the stream, which links the Shaker Lakes, Ambler Park, University Circle, Wade Park, Rockefeller Park, Gordon Park and Lake Erie.

But the brook is prone to floods and pollution. The 8.85 square miles of its once-absorbent watershed have been covered with streets, lawns and homes for some 92,000 people. The water occasionally submerges the Circle. It also contains too much bacteria for safe swimming or fishing.

The brook is also prone to politics. In the 1960s, Cuyahoga County Engineer Albert Porter wanted to run a freeway through the Shaker Lakes, which he dismissed as a "two-bit duck pond." Angry residents stopped the freeway and created the Nature Center at Shaker Lakes to fight future encroachments.

SEE BROOK, 4 B

DOAN BROOK WATERSHED



SEE BROOK, 4 B

PLAIN DEALER

Doan Brook gets whole year to call its own

BROOK FROM 1-B

In 1990, the lakes became a bargaining chip in countywide negotiations that created the village of Highland Hills and authorized the still-undeveloped Chagrin Highlands.

Now the upper Doan is halfway through a controversial program of dam repairs, dredging and draining by the three communities that share it. Hundreds of fish died in 1995, when the easternmost Shaker Lake, known as Horseshoe or Upper Lake, was drained. More draining is scheduled for Lower Lake this fall.

Meanwhile, the Nature Center has proclaimed the "Year of the Brook" to help protect the Doan. Naturalist Steven Seymour is visiting schools and other institutions, portraying Nathaniel Doan.

But the center's leaders care more about habitat than history. "The 200th anniversary [of Doan settling along the creek] is sort of an excuse to do what we're doing anyway, which is to really have the communities around the Doan Brook focus on it both as a resource and a problem," said the center's director, Nancy King Smith.

The Doan's year will run from Earth Day 1998 to Earth Day 1999. The kickoff featured the "Doan Brook Rap," written by Jonathan Graham and sung by pupils from Wade Park Elementary School, one of three Cleveland public schools studying the stream this year: "She was born nearly 20,000 years ago, when the glaciers started melting — really slow . . .," the students sang.

The kickoff also included a skit with Seymour and representatives of agencies and others concerned about the watershed: Ronald McDonald House, the Holden

'We're all in on what happens when it gets to Lake Erie.'

NANCY KING SMITH, director,
Nature Center at Shaker Lakes

Parks Trust, the Northeast Ohio Regional Sewer District, Case Western Reserve University and the cities of Cleveland Heights and Shaker Heights.

The two suburbs share the Doan with Cleveland. Ronald McDonald House has a permanent exhibit on the history of Doan's Corners, now part of the circle. Case Western Reserve students will restore parts of the streambed as part of their work for the AmeriCorps work-study program.

The Holden Parks Trust is sprucing up the parks surrounding the part of the brook that runs along Martin Luther King Jr. Dr. from the Circle to Lake Erie. The sewer district has recently commissioned a \$4.4 million study to develop a long-term plan for managing the watershed.

The center plans several activities to boost the brook. For starters, it will celebrate Earth Day a day early, from 10 a.m. to 4 p.m. April 18. Then it will also offer a course on the watershed April 21 through May 12.

Smith hopes to catch the attention of all Northeast Ohioans, even those outside the watershed. "We're all in on what happens when it gets to Lake Erie," she said.

✓ For more information

Call the Nature Center at Shaker Lakes. (216) 321-5935.

Nature Center bubbles with plans for Doan Brook anniversary

By RUSSELL WALKER
Staff Writer

SHAKER HEIGHTS — Doan Brook looks a lot different now than it did when Nathaniel Doane first set eyes on it in 1798.

The area has managed to retain some of its natural beauty, but the pristine wilderness that once was teeming with life is now mostly lifeless due to urbanization.

In celebration of its 200th anniversary, the Shaker Heights Nature Center is giving Doan Brook the gift of public awareness. It has kicked off a year-long celebration of the brook.

The kickoff last Thursday at the Nature Center began with 1998 being proclaimed "The Year of the Brook." It event will end Sept. 26.

As part of the celebration, the Northeast Ohio Regional Sewer

District announced the beginning of a two-year, \$4.4 million study aimed at improving water quality and to alleviating some of the problems caused by flooding, particularly at University Circle and Rockefeller Park.

"The people who live near Doan Brook need to understand what a watershed is and take responsibility to improve the quality of the brook for the long term," said Nancy King Smith, executive director of the Nature Center.

"These are the main reasons behind the year-long celebration."

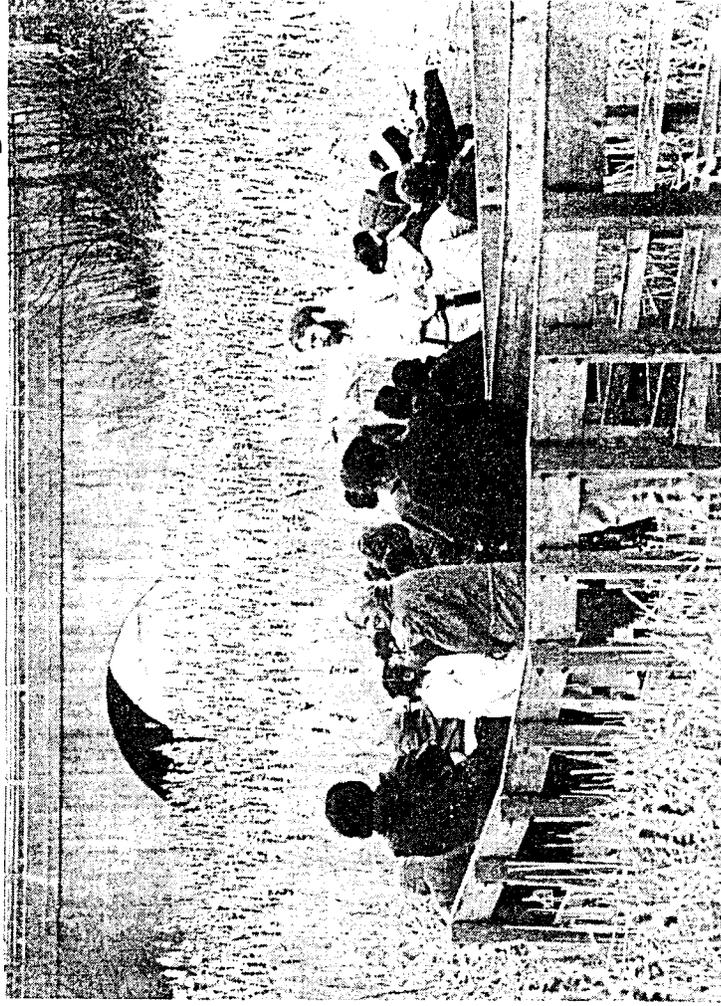
Named after Nathaniel Doane, the first non-Native-American to settle the area of East 105th and Euclid, the 9-mile-long Doan Brook is the most significant stream on the far east side of Cleveland. It runs through Shaker Heights and Cleveland Heights before emptying into Lake Erie.

Over the years, the area has become a prospering center for the arts, culture, education, medicine and economic development, but the prosperity has come at a cost.

The brook is subject to flooding problems due to poor maintenance. The amount of sewage that has seeped into the brook has made it more suitable for sustaining diseases than wildlife.

Shaker Heights Nature Center Naturalist Steve Seymour, who will be portraying Nathaniel Doane in the upcoming celebration, said the real Doane would be dismayed at what he saw today.

"He'd be shocked and stunned and would want to know where all the animals were," Seymour said. "This water was so clean that it used to have crayfish and otters and a wide variety of fish that just aren't here anymore."



SUN PHOTO BY JOSEFI AL

Students from Wade Park Elementary School learn the history of Doan Creek from Nathaniel Doane himself, portrayed by naturalist Steve Seymour from the Shaker Lakes Nature Center.

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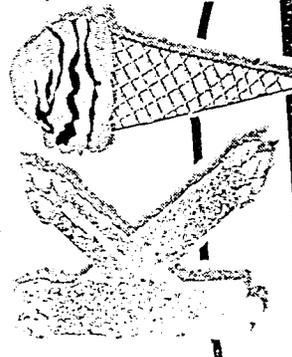
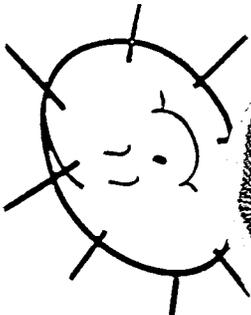
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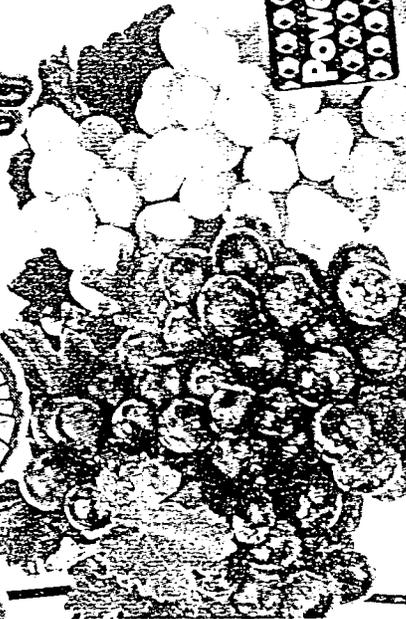
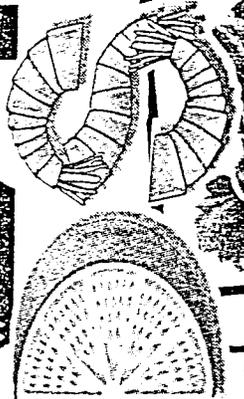
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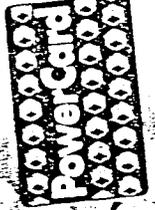
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Year of the
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CAMPUS NEWS

For the faculty and staff of Case Western Reserve University

www.cwrwu.edu

July 16, 1998

Learn about Doan Brook at event

An ice cream social, educational displays and presentations, and trolley rides will be among activities planned this weekend to draw attention to Doan Brook, which runs under campus on its way to Lake Erie.

The event runs from 10 a.m. to 4 p.m. Saturday, July 18. Free trolleys will depart every 20 minutes from nine stops along the 13.5-mile loop, which extends from Shaker Lakes to Gordon State Park (near I-90 and Martin Luther King Jr. Blvd.).

The central stop is Rockefeller Park, located at MLK Jr. Blvd. and East 105th Street. Activities at this site will include the ice cream social (from 1-3:30 p.m.), entertainment by Dance Afrika Dance and the New Orleans Stompers jazz band, games, educational displays, discussions of visions for the park's future, and a presentation on the Northeast Ohio Regional Sewer District's study of Doan Brook (which assesses problems that affect water quality, aquatic life, sewers, stream banks and retaining walls, sediment, and debris).

Members of AQUACorps — the CWRU-based Aquatic Quality Urban Action Corps — will host displays and games at Rockefeller Park on what a watershed is, and how to get involved with water quality testing and other volun-

teer projects. AQUACorps members have been involved in outreach efforts with area residents to spread awareness of the event as well as environmental issues involved with Doan Brook. To volunteer to participate in educational activities with children or assist with water sampling, call AQUACorps in CWRU's Office of Student Community Service at 368-6960.

Several other stops will have special activities for the day:

- "Lover's Lane," at the southeast corner of Coventry and North Park: The Shaker Historical Society and CWRU's Department of Civil Engineering will give presentations on stream and lake hydrology (how urban waterways work).
- The Gorge (North Park at Delaware Drive): The Cleveland Museum of Natural History will give presentations on geology and natural science. Participants can also take gorge and quarry walks.
- Culvert under University Circle, in Ambler Park: The Cuyahoga River Watershed Project will give stream biology demonstrations at the site where Doan Brook goes into the mile-long tunnel under University Circle.
- Ronald McDonald House, 10435 Euclid Avenue: "Meet" Nathaniel Doan, a blacksmith who was among Cleveland's early settlers, and view the exhibit on Doan's Corners, part of the 100-acre property Doan purchased in 1799 which includes the Ronald McDonald House site at Euclid Avenue and East 105th Street.
- Gordon State Park: The Western Reserve Historical Society will showcase historical items from Doan's era in "At Home with Nathaniel Doan," and the Steamship William G. Mather Museum will offer presentations on Lake Erie ecology and the history of Great Lakes shipping.
- Cultural Gardens (Hungarian Garden, a quarter-mile north of Superior Avenue on East Blvd.): The Cleveland Cultural Gardens Federation will offer "Tributes to Cleveland's Cultural Heritage." Other stops will highlight outdoor offerings available year round, such as nature trails at Shaker Lakes, and the Rockefeller Park Greenhouse at 750 East 88th Street.

Parking will be available at five stops: the Nature Center at Shaker Lakes, Vell's on the Circle, Ronald McDonald House, Rockefeller Park, and Gordon State Park. The primary sponsors are the Nature Center at Shaker Lakes and the Joint Committee on the Doan Brook. For event information, call

continued on page 8

Doan Brook

(continued from page 3)

321-5935 or pick up a brochure from CWRU's Office of Student Community Service in 105 Yost Hall.

Call 875-8802 for details on the sewer district's brook study. The Year of the Brook is a year-long effort to identify community resources and recruit local volunteers to help improve the state of the environment around the brook.

An international team of 13 volunteers from eight countries, plus two American volunteers, will be in Cleveland from July 17-31 to help restore stream beds along Doan Brook. Organized through the Council on International Educational Exchange, the team draws members from France, Germany, Italy, Japan, Lithuania, Morocco, Slovakia, and Spain. The volunteers will stay in CWRU residence halls while in town.

Doan Brook explored at festival

Dance Afrika Dance, the popular group led by Akil Hanif Marshall, will give a free performance tomorrow at the Rockefeller Park tennis courts at E. 105th St.



By Richard M. Peery

and Martin Luther King Jr. Blvd. to highlight the Year of the Brook celebration.

The New Orleans Stompers jazz band will also perform during the free ice cream social from 1 to 3:30 p.m.

The music and dance interlude is a part of the daylong family Watershed Tour that will take place along Doan Brook from 10 a.m. to 4 p.m. Experts from museums, universities, nonprofit agencies and historical societies will be on hand to talk about the features of the Doan Brook Watershed that drains rainwater from the area of the Shaker Lakes in Shaker Heights through University Circle and Rockefeller Park to Lake Erie at Gordon State Park. Lolly the Trolley buses will shuttle visitors from designated parking lots along the waterway to various points between the Na-

ture Center at Shaker Lakes and Gordon State Park.

Although portions of the route look wild and uninviting to all but the hardiest of hikers, the gorge above University Circle is actually filled with overgrown trails and stonework that were installed decades ago when the section was more popular with nature lovers.

The Northeast Ohio Regional Sewer District is conducting a major study of the watershed to find ways to improve the quality of the water that flows through it. The ice cream social is sponsored by the Nature Center and the Joint Committee on the Doan Brook.

CLEVELAND
HEIGHTS 

PROCLAMATION

WHEREAS, THE DOAN BROOK RUNS THROUGH CLEVELAND HEIGHTS, SHAKER HEIGHTS AND THE SHAKER LAKES BEFORE FLOWING UNDER UNIVERSITY CIRCLE AND THROUGH ROCKEFELLER PARK IN CLEVELAND ON ITS WAY TO LAKE ERIE; AND

WHEREAS, THE NATURE CENTER AT SHAKER LAKES' YEAR OF THE DOAN BROOK IS A YEAR-LONG EFFORT TO CREATE AWARENESS OF THE BROOK AND TO HELP IMPROVE THE STATE OF THE ENVIRONMENT AROUND THE BROOK; AND

WHEREAS, THE YEAR OF THE BROOK PROJECT, SUPPORTED BY CASE WESTERN RESERVE UNIVERSITY'S AMERICORPS AQUACORPS PROGRAM, IS SPONSORING A TOUR AND COMMUNITY CELEBRATION OF THE DOAN BROOK WATERSHED; AND

WHEREAS, THE CITY OF CLEVELAND HEIGHTS IS PROUD TO BE A PART OF THE NURTURING OF THE DOAN BROOK AND TO SUPPORT AND PARTICIPATE IN THE COMMUNITY CELEBRATION;

THEREFORE, ON BEHALF OF THE COUNCIL OF THE CITY OF CLEVELAND HEIGHTS, I HEREBY ISSUE THIS PROCLAMATION OF CONGRATULATIONS TO THE NATURE CENTER AT SHAKER LAKES, THE MANY VOLUNTEERS, AND THE OTHER OUTSTANDING INSTITUTIONS OPERATING WITHIN THE WATERSHED FOR THEIR EFFORTS CONCERNING THE ENVIRONMENT AND THIS IMPORTANT NATURAL RESOURCE.



Edward J. Kelley

EDWARD J. KELLEY, MAYOR
CITY OF CLEVELAND HEIGHTS
JULY 18, 1998

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Trolley tour along Doan Brook is an eye-opener

July
23,
1998

By RUSSELL WALKER
Staff Writer

SHAKER HEIGHTS — Like many people, Johnathan Harris never knew much about the history of Doan Brook and its watershed. The roads along it were just ways to get to work every day.

After all, the watershed, which begins at Shaker Lakes and cuts a swath through Shaker Heights, Cleveland Heights and University Circle until it empties into Lake Erie, follows the quickest way to reach the east Shoreway and downtown Cleveland, along Martin Luther King Jr. Drive.

But on Saturday, he learned that the brook, which celebrates its 200th "birthday" this year, is an important natural resource that should be preserved.

He also learned a little history of the brook, a natural creek that was dammed by the Shakers in the 1800s, and the history behind sites along the watershed that he passes daily.

All it took was a ride on Lolley the Trolley.

"There was a lot I didn't know about (Doan Brook)

until today," said Harris, 45, of Cleveland. "I mean, I thought it was a nice area to drive through, but that's it."

Harris was not alone.

An estimated 900 people also learned about the brook on the tour, which was held by the Shaker Lakes Nature Center as part of its yearlong celebration of the watershed.

The watershed is the focus of a two-year study by the Northeast Ohio Regional Sewer District to assess problems that affect water quality.

The \$3.7 million study aims to find solutions to preserve the environmental quality of the brook. The federal government is financing \$2 million of the study. The Northeast Ohio Regional Sewer District is financing the remainder. The district hired Montgomery and Watson, an environment engineering firm that has a Cleveland office. The study is to be done by 2000.

Betsy Yingling, a district engineer who is manager of the Doan Brook project, said flooding is a concern. She explained that during rainstorms, rainwater mixes with

See DOAN, page A2

Doan

from page A1

sewerage water from Cleveland houses and overflows the brook.

But, she said, "It's more than basement flooding." Water quality is the other concern, she said.

Separately, Cleveland, Cleveland Heights and Shaker Heights have formed a committee to raise community awareness of the brook. That group is financed with a grant from the George Gund Foundation.

As part of an effort called "Year of the Brook," Saturday's event included an ice cream social, musical entertainment and other family oriented activities.

Barb Morgan, a volunteer at the nature center and a tour guide, said, "The best part of it is meeting people and trying to interest them in nature, getting them to use their eyes to see what's around them and in hopes that they will then, after the tour's long over, go out and enjoy nature.

"That's the most important part — realizing we need to preserve and protect the stream."

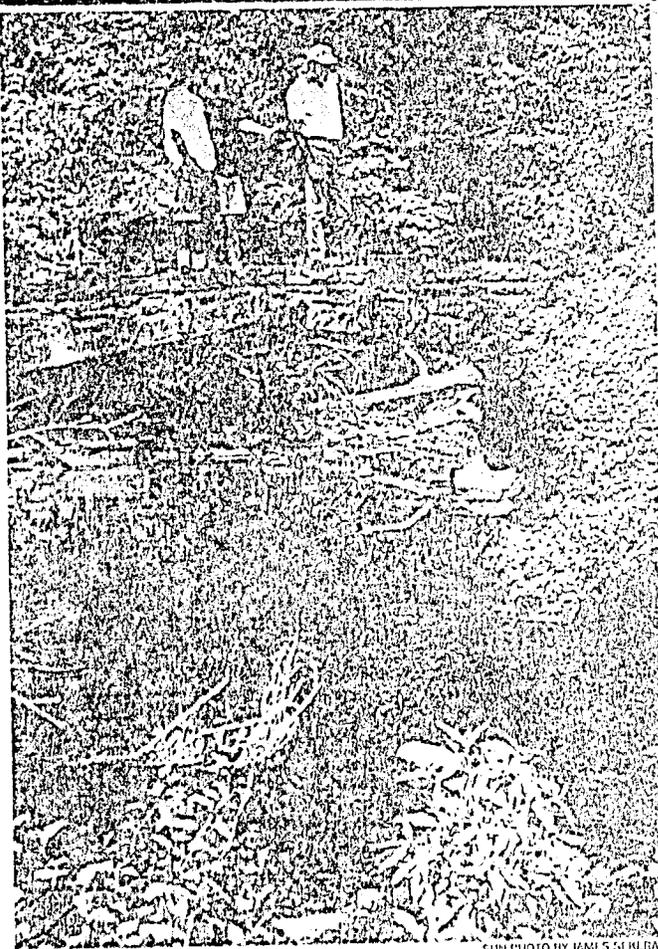
The tour began at the nature center, where trolleys waited to whisk the curious to nine stops.

For some, the trolleys were merely transportation to Rockefeller Park in Cleveland, where families could picnic and enjoy performances by the Dance Afrika Dance troupe and the New Orleans Stompers.

However, others saw the trip as an educational opportunity to learn more about the brook.

The 9-mile tour took them to sites along the watershed, such as Lovers Lane, at the intersection of Coventry and North Park roads; the culverts under University Circle; the gorge at North Park and Delaware Drive, where the area's first stone mill once stood; Ronald McDonald House on East 105th Street, the site where Doan Brook founder Nathaniel Doane settled in 1899; the Cultural Gardens; and Gordon State Park.

At each stop, representatives from museums, universities, non-profit groups and historical socie-



Joseph and Linda Mansour and their son, Andrew, of Cleveland Heights, look at Doan Brook from Lovers Lane, a stop on the trolley tour Sunday.

ties spoke about features of that stop as well as about stream and lake hydrology, stream biology, geology, natural science and Lake Erie ecology.

One of the tourists was Cleveland Heights resident Mariel Wallace, 71. She is concerned about environmental issues in her community and was interested to find out that Shaker Heights had a similar issue.

"I went on the tour partially because I'm interested in the Forest Hill/Rockefeller park issue, which

is a move to preserve the park land in Cleveland Heights instead of developing it," Wallace said. "So I sort of wanted to compare what's going on there to what's happening here as far as preservation goes."

The next event will be a hike in August.

People who missed Saturday's event can take the tour on their own anytime, say nature center officials. For information about Doan Brook and other events related to the study, contact (216) 321-5935.