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Architectural rendering of future Reading Room provided by the architectural firm of Meyer, Scherer & Rockcastle, Ltd.

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Renovations in Store for D. H. Hill Library's East Wing

BY JEANNE HAMMER, FINANCE AND ADMINISTRATION



Exhibit gallery rendering provided by the architectural firm of Meyer, Scherer & Rockcastle, Ltd.

Early in 2005 the NCSU Libraries will embark on the first phase of an ambitious Master Plan to expand and enhance its physical space to create a library system that better supports the academic goals of the university. The Master Plan was developed with input from students and faculty and emphasizes that the Libraries must provide:

- ◆ advanced application of digital information technology and access to electronic materials;
- ◆ individual and collective study spaces for quiet, contemplative study and collaborative interactions;
- ◆ access to all of the required print materials.

It is critical that the Libraries overcome its current deficiencies, which include:

- ◆ overcrowding and inadequate seating;
- ◆ antiquated building systems;
- ◆ inefficient use of space;
- ◆ insufficient space for growth and use of collections.

The Master Plan calls for renovating the East Wing of the D. H. Hill Library (Phase I); building a companion library on the Centennial Campus (Phase II); demolishing and rebuilding the West (Erdahl-Cloyd) Wing of the D. H. Hill Library (Phase III); and adding onto the Centennial Campus library (Phase IV).

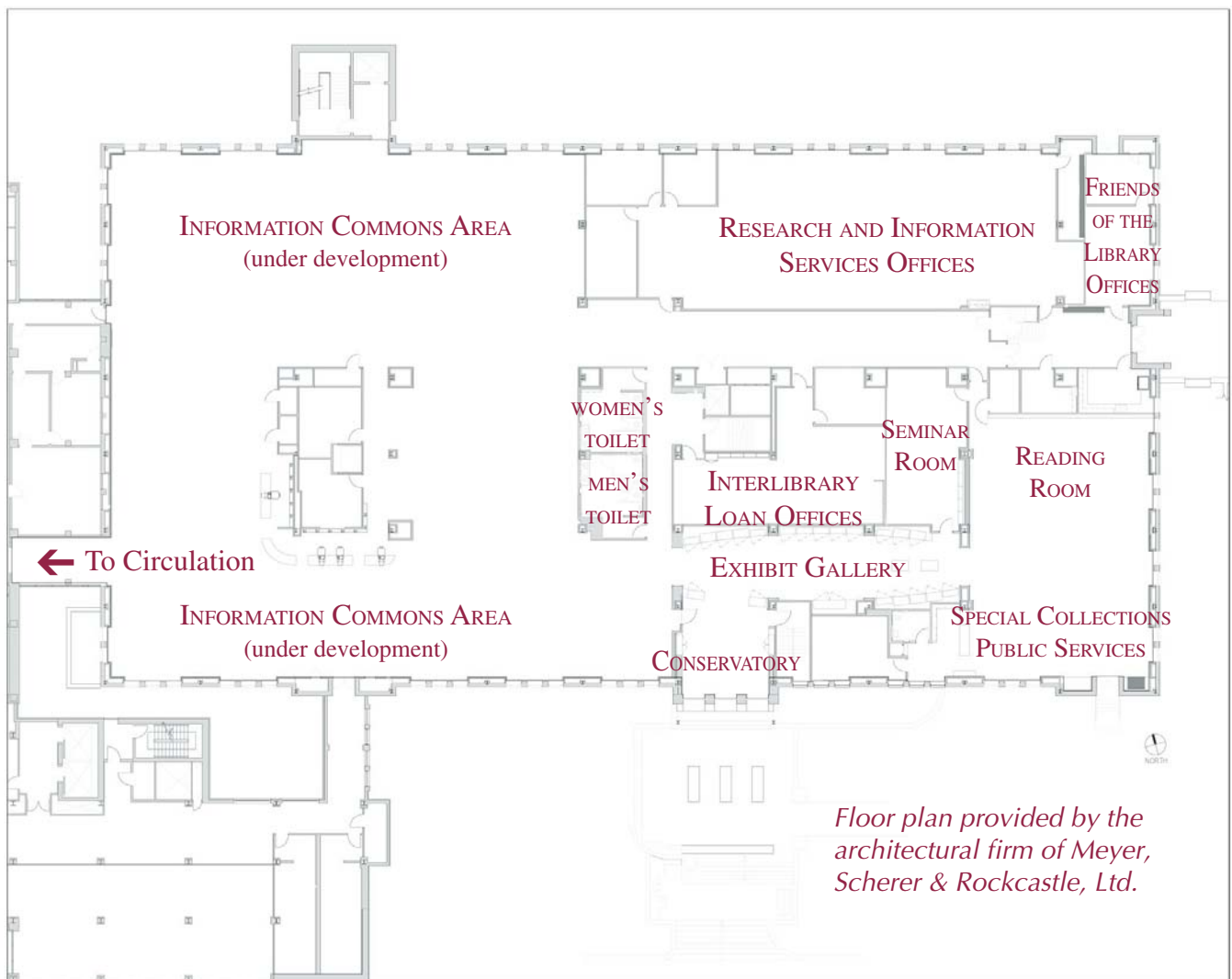
Phase I entails a major upgrade of the East Wing infrastructure in the D. H. Hill Library and complete renovation of the ground and first floors. Infrastructure upgrades will include replacing all windows, providing energy efficient and comfortable HVAC systems, increasing the capacity of electrical wiring and network cabling, and improving building security and life safety systems.

The renovations also will make it possible to relocate staff work space to the ground floor and open up more of the first floor for use by students and faculty. Work on the first floor will include the creation of a museum-quality exhibition gallery to display materials from the Libraries' Special Collections Research Center and to host traveling exhib-

its, a well-appointed reading room for quiet study and use of Special Collections materials, and a redesigned area for individual and small group computer use and collaboration.

The East Wing renovation project will take approximately eighteen months to complete and will be done in stages, because the entire ground and first floors cannot be completely vacated at one time. There will also be some disruptions on the second and third floors as windows are replaced and an additional HVAC unit and related duct work and fire suppression system upgrades are installed. For the most part, however, students and faculty should experience minimal interruptions in library services. A

East Wing Renovation First Floor Plan



preview of the relocated service points and staff offices is provided in accompanying articles in this issue.

Although the bulk of the funding necessary for the basic infrastructure upgrades is provided from bonds approved by the voters of North Carolina, the Libraries seeks donations to enhance the quality and function of the public spaces students and faculty will enjoy once the project is complete. Those interested in support-

ing the Libraries in this way can learn more in the naming opportunities article on page 5.

When students and faculty return for the spring 2005 semester, they will find ample signage directing them to the relocated Reference Desk (in the West Wing near the Reserve Desk), computers, printers, and photocopiers. Those interested in keeping up with the project's progress can find more information at <http://www.lib.ncsu.edu/renovation/>. ♦

D. H. HILL RENOVATION

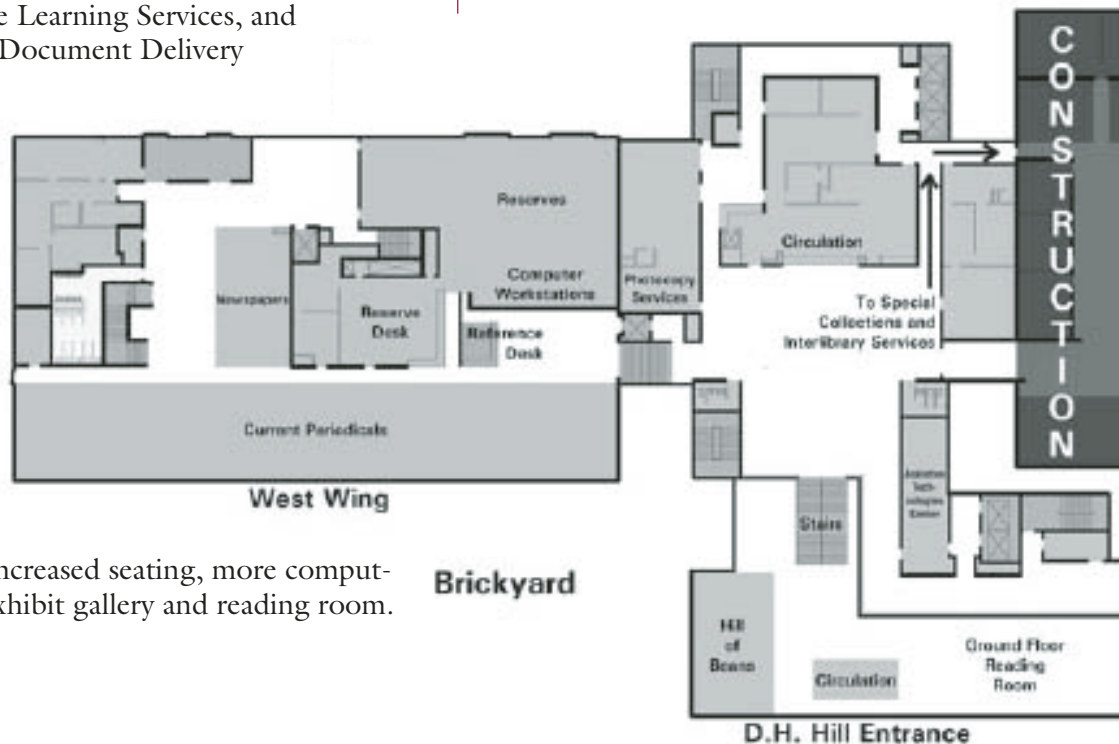
D. H. Hill Library Service Changes During 2005–2006 Renovation

BY ROB RUCKER, PUBLIC SERVICES

Before NC State can enjoy the renovated East Wing of the D. H. Hill Library, the NCSU Libraries needs to make room for construction to proceed. This means relocating many library staff and some of the most important public service points. The ground and first floors of the East Wing will be affected, and relocated services will include the Reference Desk and nearby computers, the Special Collections Research Center, Friends of the Library, Distance Learning Services, and Interlibrary and Document Delivery Services. The reference collection will also be moved during this period of construction. Renovation will begin in early 2005 and is expected to be completed by fall 2006. The renovated space will offer increased seating, more computers, and a new exhibit gallery and reading room.

REFERENCE DESK

Users of the D. H. Hill Library are familiar with entering the library, going up the stairs or using the elevator to reach the main lobby in front of the Circulation Desk, and then turning right to get to the Reference Desk and the nearby computers. Starting in January 2005, these services will instead be to the *left* of the





date patron computers.

COMPUTING

Patron computing will be accommodated in several places, and these changes will actually mean a net increase in the number of computers available at the D. H. Hill Library for NCSU students, staff, and faculty. Approximately forty workstations will be available near the Reserve and temporary Reference Desk areas, to the north of the glass wall that currently divides the Reserve Reading Room from Current Periodicals. The Libraries also installed more than a dozen computer workstations on Bookstacks Level 5 between the north and south towers. The same number of workstations will be added to Bookstacks Level 6. Ten workstations will be installed along the north wall of the north tower on Bookstacks Level 2. Additional workstations have also been added to the ground floor Reading Room. The Unity Lab on Bookstacks Level 2 will not be affected by these changes. Of course, laptops will continue to be available through the Laptop Lending Service.

REFERENCE COLLECTION

In addition to patron computing being added to Bookstacks Level 6, the sixth floor will also accommodate the bulk of the reference collection. Signs will indicate its location and will remind users that they can use their cell phones to call

the main lobby, in the West Wing, also known as the Erdahl-Cloyd Wing. The Reference Desk will be located just in front of the Reserve Desk, and a small collection of important reference books will be shelved in the Reserve shelves. The Current Periodicals Reading Room and the Reserve Desk will remain unchanged by these moves. The Reserve Reading Room will have a reduced number of study tables so that it can accommo-

the Reference Desk or consult a librarian via online chat or electronic mail at one of the workstations. Reference staff will be glad to come up to assist users with their research.

PRINTING AND PHOTOCOPYING

Photocopiers will remain in the Reserve and Current Periodicals area. Photocopying in the bookstacks will be improved by the installation of a photocopier on every bookstack level, just

outside the south tower elevators. The current mix of library and Wolfcopy photocopiers will remain. Network printing will be available in the Reserve and temporary reference area in the West Wing, as well as on Bookstacks Levels 5 and 6 and in the Photocopy Services office.

INTERLIBRARY SERVICES AND SPECIAL COLLECTIONS RESEARCH CENTER

While the first floor of the East Wing will be inaccessible during construction, the other floors of the East Wing will remain open most of the time. The north staircase and elevators in the East Wing will remain accessible throughout the period of renovation, though the exact location of passage to them may change as construction proceeds. East Wing areas include the Digital Media Lab, Collaboratory, Microforms Center, and ITTC

(Information Technologies Teaching Center) Labs on the second floor, and administrative and Personnel Services offices on the third floor. Both Special Collections and Interlibrary and Document Delivery Services will be temporarily relocated on the ground floor with limited hours for public access, and the Friends of the Library offices have already relocated to the second floor of the East Wing. Distance Learning Services is in the north tower on the sixth floor.

These shifts will allow staff to vacate areas under renovation. The Libraries appreciate the patience of its patrons and staff during this transition. To the extent possible, any loud construction will be limited to hours of lowest library use, and the library will work with construction staff to keep disruption to a minimum throughout the various stages of renovation. The new East Wing will provide a greatly enhanced space for the NCSU community. ❖

D. H. HILL RENOVATION

New Spaces for Computing and Collaboration

BY CAROLYN ARGENTATI, ADMINISTRATION

When the D. H. Hill Library's East Wing renovations are completed, the space that users will encounter as they enter the first-floor wing will be redesigned and newly furnished for individual and group study, computing, and reference assistance. This is the area where the current Reference Desk, reference collection, and patron computers are located. The concept that is guiding the redesign of this area is the "information commons," a model for space and services that supports student learning across the spectrum of research, collaboration, and use of technology.

In today's technology-rich learning environment, students must be able to move seamlessly from research to writing to collaboration and back to research in completing their course assignments. They require a ubiquitous and portable computing environment in physical spaces where they can work in small groups. In

this renovated space, computers with a diverse range of software will be available, as will laptop-friendly seating with wireless network access, and individual and group study spaces. The space will also include a semiprivate area in which subject experts can meet with students and faculty to discuss their research needs and in which impromptu library instruction could be offered to a group of students who may be working on the same assignment. The first-floor space will also provide easy access to the services of the Learning and Research Center for the Digital Age one floor above, including the Digital Media Lab and the Collaboratory.

The Libraries' vision is to offer a comfortable space conducive to learning that students will find both inviting and highly functional. The new space is being planned with input from many sources, including faculty, students, and members of the University Library Committee. ❖

D. H. HILL RENOVATION**Donors Can Find Many Naming Opportunities for the D. H. Hill Library**

BY JIM MULVEY, LIBRARY DEVELOPMENT

The NCSU Libraries is pleased to announce a list of naming opportunities associated with the upcoming renovation at the D. H. Hill Library. Gifts, which may be pledged over a three-year period, entitle donors to permanent name recognition for themselves or in memory or honor of a loved one. A broad range of giving opportunities is available, enabling donors at all levels to participate in an exciting fund-raising project that will enhance the library for all its users. Funds raised through this effort will supplement the bond-funded renovations to make these library spaces more functional and attractive for students, faculty, and staff at NC State.

A special opportunity also exists for the first donor to make a gift of \$150,000 or more. The Wolfpack Club has generously agreed to provide a matching gift of \$100,000 for the first gift of \$150,000 or more. Thus, a gift of \$150,000, matched by the Wolfpack Club's \$100,000, will entitle the donor to name a \$250,000 space such as the Digital Media Laboratory. To learn about naming options, please review the list to the right. For more information about these naming opportunities, as well as inquiries about availability and recognition, please call Director of Library Development Jim Mulvey at (919) 515-3339 or send an electronic-mail message to jim_mulvey@ncsu.edu.

Dichroic glass disks suspended eight feet above the floor form a striking light sculpture for the D. H. Hill Library's future Conservatory, located inside the original entrance.

**Naming Opportunities**

Special Collections Research Center	\$3 million
Special Collections Reading Room	\$1 million
Reference Reading Room	\$750,000
Gallery (\$500,000) and Conservatory (\$250,000)	\$750,000
Learning and Research Center for the Digital Age	\$500,000
Theater	\$350,000
Digital Media Laboratory	\$250,000
Preservation Laboratory	\$250,000
Multimedia Seminar Center	\$150,000
Assembly Room	\$100,000
Special Collections Seminar Room	\$50,000
Collaboratory	\$25,000
Conference Room (Second Floor)	\$25,000
Graduate Study Collaboration Rooms (4)	\$25,000 ea.
Reference Services Desk	\$25,000
Student Group Study Rooms (8)	\$20,000 ea.
Interlibrary Services Center	\$20,000
Astral Bench for the Conservatory	\$15,000
Faculty Research Studies (60; 4 are reserved)	\$15,000 ea.
Special Collections Service Desk	\$15,000
Gallery Exhibit Cases (22)	\$10,000 ea.
Conservatory Light Sculpture	\$5,000
Tables in Special Collections Reading Room (8)	\$5,000 ea.
Tables in Reference Reading Room	\$3,500 ea.
Gallery Chairs (3)	\$1,500 ea.
Study Carrels/Workstations	\$1,000 ea.
Special Collections Reading Room Chairs (64)	\$750 each
Reference Reading Room Chairs	\$500 each
Bricks	\$250 (lg.), \$150 (sm.)

D. H. HILL RENOVATION

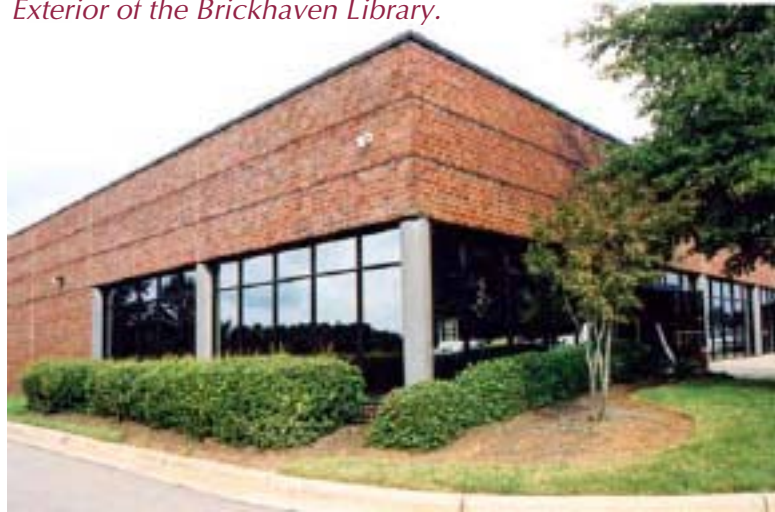
Brickhaven Library Swing Space

BY JAN KEMP, BRICKHAVEN LIBRARY

To make way for the East Wing renovation, three technical services departments—Acquisitions, Cataloging, and Preservation—have temporarily moved from the D. H. Hill Library. The relocation involved nearly sixty staff and student assistants; more than fifty computers; large amounts of shelving; and equipment used for book repair, binding, and conservation. The staff moved into a swing space building called Brickhaven Library in November 2004 and will be there between eighteen and twenty-four months.

Brickhaven Library is a 10,000-square-foot university facility located at 516 Brick-

Exterior of the Brickhaven Library.



haven Drive, approximately two miles from the north campus. It is situated south of Hillsborough Street and the College of Veterinary Medicine and bounded

on the east by Interstate 440. On the west side, the property adjoins the grounds of North Carolina State University's J. C. Raulston Arboretum.

The Brickhaven building, a former mattress showroom, has undergone an extensive three-month retrofit to meet the requirements of technical services operations. Major improvements include a new roof; heating, ventilation, and air-conditioning system; exterior lighting; ten-foot ceilings; carpet, paint, and vinyl tile; and plumbing and cabinetwork. Because library technical services functions are computer-based, the building required a major upgrade of electrical power and data connec-



Liz Burnette, assistant head of Acquisitions, reviews a Brickhaven floor plan during renovations.

tions to provide access to the Libraries' computer system and to the Web-based systems used by vendors of library materials and services.

For nearly a year, library staff have helped to prepare specifications for the swing space, create floor plans for their offices, and develop lists of the furniture and equipment to be moved. The Libraries has contracted with a delivery service to transport books and other research materials from the Brickhaven Library, where the materials are ordered and processed, to the D. H. Hill and branch libraries, where the books and journals are used by students and faculty. The staff also travels between

Brickhaven and D. H. Hill to work on committees, special projects, and the collections. To facilitate staff transportation, a new Wolfline bus stop has been added to the #4 Westgrove route at the corner of Brickhaven and Beryl Drives.

Processing library materials from an off-campus location requires flexibility, but the Brickhaven Library offers excellent accommodations. With the swish of traffic on I-440, chirping mockingbirds, and green vistas of the neighboring Arboretum, Brickhaven provides a thoughtfully planned, functional temporary home for the library's technical-processing operations. ❖



[Left to right] NCSU librarians Steve Morris and Jeff Essic review a GIS map.

Partnership with Library of Congress Preserves At-risk Mapping of North Carolina

BY ANNA DAHLSTEIN,
EXTERNAL RELATIONS

A wide range of state and local government agencies in North Carolina produce digital geospatial data for use in tax assessment, transportation planning, hazard analysis, health planning, political redistricting, homeland security, and utilities and natural resources management. Over the past ten years, there has been an exponential growth in the volume of data produced, which includes digitized maps, digital aerial photographs, and geographic information systems (GIS) data sets.

The NCSU Libraries began offering geospatial data services in the mid-1990s and was an early leader in collecting data from North Carolina's

local governments. Data resources continue to be acquired, cataloged, and made available in the library and through a campus-wide networked server. These resources are used by every academic college at NCSU. The demand for geospatial data is high across such a broad spectrum of academic disciplines because "its applications are virtually infinite," according to Steve Morris, head of the Digital Library Initiatives Department at the NCSU Libraries.

"Geospatial information may be compiled for a specific purpose—such as road planning or fire insurance—but it can eventually be used for all sorts of research not originally envisioned."

For instance, graduate students in the College of Natural Resources who are studying wildlife populations can gather data points in the field with Global Positioning System (GPS) units and then overlay their observations on-screen with GIS data that depicts habitat conditions. Meanwhile, economics faculty on campus have used GIS census data to track correlations between socioeconomic factors, housing values, and crime statistics.

One drawback of data that is “born digital” is that it poses special challenges for preservation and long-term access. Because computer hardware and software rapidly become obsolete, there literally is no paper trail. “In a way, it is easier to locate paper maps from 1975 than GIS data from 1995,” concedes Data Services Librarian Jeff Essic.

Rising to this challenge, the Digital Library Initiatives Department is working on a project of national importance, albeit with a local focus. On September 30, 2004, the NCSU Libraries entered into a cooperative agreement with the Library of Congress to complete a \$1 million project through the National Digital Information Infrastructure and Preservation Program. Over the next three years, the NCSU Libraries is partnering with the North Carolina Center for Geographic Information and Analysis to collect and preserve digital geospatial data resources from state and local government agencies. Although the effort will focus solely on North Carolina, the project is expected to serve as a demonstration model for other states.

Not surprisingly, state and local agencies frequently offer more detailed and up-to-date geospatial data than federal agencies. However, entities such as county and city governments are by definition decentralized, and they focus almost exclusively on providing access to the most current data available, rather than any older versions. “There is rarely any incentive or requirement to keep older data after replacing yesterday’s version with today’s,” explains Essic.

In 2003 the North Carolina Geographic Information Coordinating Council launched

a plan to “organize the geographic information assets statewide” under a program called NC OneMap. One of the stated goals of NC OneMap is to ensure continuous access to historic and temporal data. The NCSU Libraries and the North Carolina Center for Geographic Information and Analysis are now identifying available resources through the NC OneMap data inventory and acquiring at-risk data. The project partners will develop a digital repository architecture for geospatial data through use of open source software tools such as DSpace and emerging metadata standards such as Metadata Encoding and Transmission Standard (METS). In addition, the partners will investigate methods for automating the identification and capture of data resources by using emerging Open Geospatial Consortium specifications for data interoperability.

An important outcome of the North Carolina project will be the development of a model for data archiving and time series development that can guide and inform digital preservation efforts in other states and countries. “Just as local geospatial data is often of a higher quality than federal data, the National Digital Information Infrastructure and Preservation Program recognizes that innovations are often best developed on the grassroots level. This project takes a ground-up approach in many regards,” said Morris.

Each project partner brings complementary assets to the table. For instance, thanks to the NC OneMap initiative, the North Carolina Center for Geographic Information and Analysis—a division within the state’s Department of Environment and Natural Resources—has already secured data-sharing agreements with many of the ninety-two North Carolina counties that currently produce GIS data. Meanwhile, the NCSU Libraries has experience in balancing content providers’ interests with users’ interests in licensing agreements. “Thirty years from now, when a researcher needs to know the land-use patterns in the early years of the twenty-first century, our data will be extremely valuable,” predicts Essic. ❖



Focus, a newsletter published three times a year, seeks to promote the services, activities, needs, and interests of the NCSU Libraries to the university, the Friends of the Library, and beyond.

Editor: Terrell Armistead Crow.

NCSU Libraries Homepage: <http://www.lib.ncsu.edu/>