Administrative Leadership Meeting

Randy Woodson
Chancellor
Tuesday, March 12, 2019
| May 7, 2019 | DASA Strategic Initiatives | Titmus |
Knight-Hennessy Scholars

Ziad Ali

Madison Maloney
National Academy of Engineering

- Rodolphe Barrangou
Our Vision

To be NC State’s competitive advantage
Strategic Priorities

- To enhance student success and promote affordability
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- To provide a platform for research infrastructure
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- To provide a platform for research infrastructure
- To be a gateway to the community
Strategic Priorities

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- To provide a platform for research infrastructure
- To be a gateway to the community
- To raise the profile of the university
A Culture of Excellence

- 2016 IMLS National Medal for Library Service
- 2018 ALA “Library of the Future Award”
- 10 Library Journal Mover & Shaker Awards—most of any academic library
- Stanford Prize for Innovation in Research Libraries
- 3 ALA Cutting-Edge Library Service Awards
Sustaining Principles

- To have the best staff in North America
Sustaining Principles

- To have the best staff in North America
- To be an incubator for emerging technologies
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- To design premier spaces
Sustaining Principles

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- To nurture a culture of experimentation and creativity
Sustaining Principles

- To have the best staff in North America
- To be an incubator for emerging technologies
- To design premier spaces
- To nurture a culture of experimentation and creativity
- To always be aspirational and ambitious
New Areas of Emphasis

- Deepening Partnerships and Alignment
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- Collaborative approach to space planning and use, holistically meeting student and faculty needs
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- Deepening Partnerships and Alignment
- Collaborative approach to space planning and use, holistically meeting student and faculty needs
- Technology refresh, focused on accessibility and maximizing use
The Intersection of Student Success and Affordability
Hill Library Renovation

- Creating pathways for sharing and celebrating student work
- Fostering discovery and creativity for students
- Providing a platform for deeper learning, creative exploration, peer-to-peer interaction, and skill development
- Enriching the educational experience and student life at NC State
Gate Count Five-Year Trend

Increased 6%

Total visits: 2,542,366

Average of 9,500 visits per in-semester day

- Hunt Library
- Hill Library
- Branches and Affiliates
Group Study Room Reservations, Five-Year Trend

- Hill Library
- Hunt Library

Number of Rooms

- Hill Library: 21, 21, 21, 38, 41
- Hunt Library: 70, 70, 70, 70, 70

33% Increase
College of Textiles alumnus Jazsalyn McNeil created her “Pulse Dress,” which incorporates LEDs that blink with the wearer’s heartbeat, in our Makerspace.

Making Space speaker Meghan McCarthy guides attendee through a “molecular spelunking” journey using UCSF ChimeraX.
Active and Experiential Learning

- Hands-on access to the emerging technologies of making.
- Enable students and faculty to work with 3D printing, 3D scanning, electronics prototyping, and other Maker tools.
- Maker tools are available through our Technology Lending Service.
Virtual reality (VR) provides new ways for people to interact with information and media.

The VR Studio at the D. H. Hill Jr. Library is a space for experimenting with and creating immersive content.

Eight workstations representing the two major VR platforms, the Oculus Rift and the HTC Vive, and other equipment.
Active and Experiential Learning

- Future Innovation Studio, Hill Renovation
- Impactful teaching and learning space
- Emerging technology instruction
- Digital and physical storytelling
- Interactive exhibits
- Office of Undergraduate Research partnership
- Full-space utilization by classes
The Libraries’ Textbook and Alt-Textbook programs save students over $400,000 every year.

Textbook Affordability

- Addressing the problems of high textbook costs and access code lock-in
- Textbook Lending and Course Reserves services
- OER courses saved UNC system students more than $1.8 million in 2017-18.
- Open Education North Carolina has saved NC students more than $3.6 million.
Technology Affordability

- User-driven technology lending
- Scaffolded support: workshops, peer consultations, Lynda.com tutorials, etc.
- Democratic access to tools and resources that levels the playing field for all students
Student Employment

- 250 Student Employees
- Providing a positive, meaningful work experience for a diverse group of students drawn from all disciplines and backgrounds
- First Student Scholarships and Fellowships within Last 18 Months
- Graduate Student Support Plan (GSSP)
- Peer-to-peer student management program
- Opportunities for professional development
NC STATE UNIVERSITY LIBRARIES
PEER SCHOLARS PROGRAM
Peer Scholars Feedback

- “Participation in the Peer Scholars Program led directly to being offered a Graduate Research Assistantship in my department. I am thankful to the Libraries for the opportunity and support in organizing these efforts!” - Amrutha Raghu, MS Candidate, Chemical Engineering

- “The Peer Scholars Program is a great transition into teaching at the professional level where I can develop and teach my own materials. Because I am teaching peers, it is a friendly environment and has allowed me to practice more advanced communication and teaching techniques compared to techniques I use with my freshman students. I've gained confidence in my teaching skills and have enjoyed helping other graduate students and postdocs develop their professional portfolios.” — Dianna Francisco, PhD Candidate, Atmospheric Science
Non Curricular Instruction

FY 2017/18

- Data & Visualization
- Makerspace
- Data Management
- Virtual Reality
- Digital Scholarship
- Digital Media

Audience Size

Non-curricular Instruction

- Total number of instruction sessions up 60% over last five years
- 35% of 2017/18 sessions focused on new tools and skills: Data Science, Visualization, Digital Media, Making, Virtual Reality, Digital Scholarship, etc.
- Student demand and workshop offerings continue to increase
Platform for Research Infrastructure
Collections as Core Infrastructure

- 5.3+ million physical and online volumes
- 1.2 million+ ebooks
- 128,000+ journals (99% online)

Over 635 databases
### Measurable Uses of the Collection: Five-Year Trend Index

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- **16.5 million uses of our collection in 2017/18 (up 7%)**
- **4.1 million full-text journal downloads in 2017 (up 13%)**
- **7.5 million database searches in 2017 (up 18%)**
Measurable Uses of the Collection

Collection usage increased 27% since 2014.
Amount Needed to Bring The Libraries Collections Expenditures to Peer Average

$2.5 million gap (17%)

$15,000,000

$10,000,000

$5,000,000

$0

1999 2001 2003 2005 2007 2009 2011 2013 2015 2017

The Libraries
Peer Average
Collections as a Service

- Textbooks and textbook alternatives
- Text-mining tools
- Demand-driven solutions
- Data-informed collection strategies
Amplifying Research & Scholarly Impact

- Scholarly profiles
- Data & software publication
- Impact metrics, altmetrics, & citation analyses
- Data Science & visualization tools
- Public Science
Broader Impacts Support

- Writing stronger Broader Impacts statements
- Assessing Broader Impacts
- Budgeting for Broader Impacts
- Campus Resources
- https://www.lib.ncsu.edu/broader-impacts
Research Data Services and Support

- As of Dec. 2018, $8.1 million in awarded grants were supported by the Data Management Plan Review service.
- 37 different departments have used the DMP Review service.
- At least 4 of these projects were DOE or NSF CAREER Award winners.
The Dataspace at the Hunt Library

- A centralized space where students and researchers across disciplines can access specialized tools and technology, participate in workshops, and engage with experts.

- Staffed by graduate student Data Science Consultants with expertise in data topics and tools.

- Undergraduates make up 46% of user interactions, up 1300% compared to before the space opened.
Refreshed Hunt Library Game Lab
Librarians as Catalysts in the Research Process

Lab-integrated & Curriculum Engagement

RDM Research Admin Partnerships

Grad Student & Post-Doc Partnerships

Data Science Research Computing

Public Science ORCID

OERs Content Mining

Bibliometrics Public Access Compliance

Digital & Immersive Scholarship

Entrepreneurship Data Literacy

NC STATE University Libraries
A Gateway to the Community
Programming and Outreach

- ~9,000 attendees in 2018
- 97 programs in 2018
- Up 424% over the last five years
Coffee & Viz

- Forum for NC State researchers to share their visualization work and discuss topics of interest
- Presented by the Libraries in one of our state-of-the-art high-tech spaces like the Teaching & Visualization Lab
- Coffee & Viz programs are free and open to the public
- NC State Visualization Interest Group
State of the Sciences LIVE at the Library

- A collaboration with the College of Sciences
- 800+ community attendees
- Attendees engaged with research principles, methods, and tools, such as virtual reality technology.
Dr. Martin Luther King’s impact was experienced and understood anew at NC State University through a series of public events.

- A performance by renowned actors Danny Glover and Felix Justice—as Dr. King and Harlem Renaissance poet Langston Hughes

- An immersive experience at the James B. Hunt Jr. Library showcasing three innovative projects by Dr. Jason Miller and Dr. Victoria Gallagher

- Conversation with Pulitzer Prize-winner David Garrow and art work by Synthia SAINT JAMES
● Physical and digital platforms

● Hill Library Gallery and Hunt Library video walls

● Hunt Library Tech Showcase and Hill Library Innovation Studio

● Providing a platform for students and faculty to engage public and academic audiences

● Enhancing competitiveness of grant proposals

● Demonstrating value of research and higher education to the public
Raising the Profile of NC State
Bringing the World to NC State

Total Tours & Visitors by Location

Demographic information is not captured for guests that attend our walk-in tours, as they are open to the public and don't require a reservation.

Visitor Count by Fiscal Year

Visitor Count by Calendar Year

© 2019 Mapbox® OpenStreetMap
“The bookBot at N.C. State’s Hunt Library is hands down the coolest thing I saw during my visit.”

— Melanie D.G. Kaplan, Jan. 16, 2019

“You’re going where? Raleigh.”