

BOARD OF VISITORS
Research and Technology Committee Meeting
December 7, 2007
President's Conference Room
9:10 a.m. – 10:10 a.m.

DRAFT

MINUTES

Ms. Renitalynette K. Anderson, Chairperson, called the meeting to order at 9:10 a.m. Roll call indicated that a quorum was present.

Committee Members Present:

Ms. Renitalynette K. Anderson, Chairperson
Mr. Gary T. McCollum

Members of NSU Staff Present:

Dr. Adebisi Oladipupo, Vice President for Research & Technology
Ms. Shawkita K. Harris, Office Manager
Mrs. Margaret Massey, Associate Vice President for Technology
Mrs. Paula R.D. Shaw, Director, Office of Sponsored Programs
Ms. Cynthia Duhe'-Harris, Prospect Researcher, Office of Sponsored Programs
Ms. Adrienne Washington, Administrative Specialist, Office of Sponsored Programs
Ms. Annemarie Delgado, Senior Grants Administrator, Office of Sponsored Programs
Ms. Paige Glass, Grants Administrator, Office of Sponsored Programs
Dr. Carolyn W. Meyers, NSU President
Mr. Courtney Mitchell, Technical Coordinator, School of Social Work
Dr. Joseph C. Hall, Director, Center for Biotechnology and Biomedical Sciences (CBBS)
Dr. Elsie M. Barnes, Vice President for Academic Affairs
Mrs. Terricita Sass, Associate Vice President for Enrollment Management
Mrs. Sharon Hoggard, Director, News & Media Relations

Other Board Members Present:

Mr. Bobby N. Vassar, Rector
Ms. Virginia M. Board
Mr. Willie L. Brown
Dr. Lauren R. Tucker

Committee Members Absent:

Mr. Howard P. Kern
Mr. Henry D. Light

1. Approval of Minutes

Ms. Anderson asked for a motion to approve the August 31, 2007. Motion moved by committee and the minutes for August 31, 2007 was approved.

2. Discussion Items

Dr. Oladipupo began a PowerPoint presentation that included updates on Research, RISE Campus and Information Technology. Significant points included the following:

A. Research Update

- Funding Outlook & Congressional Support
- Research Strategic Planning
- Dr. Joseph Hall, Director CBBS

B. Information Technology Update

- Security System/Appliances
- Research Computing
- iPod update: Mrs. Margaret Massey

C. RISE Update

- Phase 2 Development Update

A. Research Update

Funding Outlook & Congressional Support - Dr. Oladipupo

Dr. Oladipupo highlighted the following funding outlook information:

- Funding/FTE: \$34,000 (Nov 2006) \$42,000 (Nov. 2007) a 23.5% increase.
- Total Funding: \$10.3 million (Nov. 2006), \$ 12.6 million (Nov. 2007) a 22.3 % increase.
- Additional funding support for the University (e.g. staff, legal, etc).
- Incentives for the faculty and staff researchers (F & A policy):
 - 1) PI/PD research support; Research Initiation Award
 - 2) Matching funds (e.g. MRI program); Reserve

Dr. Oladipupo listed the following Congressional Support for Sponsored Research:

- Senator Warner
- Senator Webb
- Hon. Bobby C. Scott
- HR 3222: Modeling & Simulation and Information Assurance

Dr. Oladipupo said that NSU is poised to receive a congressional funding to support niche research in modeling and simulation that will incorporate our effort in sensors research.

Research Strategic Planning – Dr. Oladipupo

Dr. Oladipupo said that he and his department are working on pruning and solidifying research planning strategies.

Dr. Oladipupo said that he would like to see strategic partnerships with other universities and corporate partnerships to increase the funding for sponsored research.

Dr. Oladipupo said that NSU is in the midst of strategic planning for research that will further strengthen our ability to increase funding and develop/maintain critical areas of strength.

Dr. Joseph Hall, Director CBBS

Dr. Hall presented to the Board an article from the Daily Press. The article's title read, "NSU Professor Discover's Contraceptive for Males." The article was in reference to Dr. Hall's scientific research for male contraceptives however, the picture linked to the article was not Dr. Hall.

Ms. Anderson asked that a member of the Board take the action item of calling the Daily Press to request a reprint with the correction of the error.

Dr. Hall gave background information and a timeline on the beginnings of the Biotechnology Center at NSU.

Background Information and Timeline:

- Dr. Hall was recruited away from North Carolina State from Dr. McDemmond in 1997.
- In anticipation of the "explosion" of the development of biotechnology and environmental sciences, Dr. Hall proposed the idea to Dr. McDemmond to house a center for biotechnology at NSU – Dr. McDemmond approved on the bases that Dr. Hall would obtain funding for the center.
- Dr. Hall began working with Mrs. Shaw and the Office of Sponsored Programs (OSP) to obtain funding.
- In 2005 Dr. Hall obtained funding (grant for \$3.6 million) from NIH to generate a Biotechnology Center and to establish a laboratory of Drug Discovery at NSU.

Dr. Hall gave a special thanks to Mrs. Shaw and the Office of Sponsored Programs (OSP) for their assistance in obtaining the NIH grant and he also thanked, Mrs. Massey and the Office of Information and Technology (OIT) for their assistance in evaluating the software and hardware of the computational tools that was needed to proceed with the

research being held at the Biotechnology Center.

Dr. Hall stated that NSU and Georgetown University are the only schools on the East Coast with Computational tools software.

Dr. Hall began a PowerPoint presentation on Novel and Faster Drug Discoveries – Use of Computational tools to enhance drug discovery research at NSU.

Dr. Hall highlighted the following:

- The future (*e.g., the next five to 10 years*) vision of the Center is to develop national preeminence and scientific expertise in three research areas: Reproductive Biology and Biochemistry, Proteomics/Glycoproteomics and Drug Discovery.
- Only 1,000 labs in the World have Computational tools.
- Computational tools allow one to design drugs to inhibit or block certain biological processes.
- Two of the computational tools used at the Discovery Lab at NSU are:
 - 1) SYBYL – Molecular visualization, design and analysis. A unique set of integrated construction, computation, representation and analysis tools.
 - 2) UNITY – Chemical information management. 2D and 3D database searching, including flexible 3D searching of molecules, Markush searching and networked links to relational database management systems (Oracle, RDB,...)
- Dr. Hall is in the process of preparing a challenge grant in the amount of \$25 million for the Biotechnology Center at NSU, there are two areas of the challenge grant:
 - 1) Bill Gates Foundation
 - 2) World Health Organization
- The challenge grant that Dr. Hall is preparing for is to design or develop a compound that has both HIV activity as well contraceptive activity within a 10 year time limit.

Dr. Hall said that his goal for the Biotechnology Center is to rapidly develop compounds and sell the information to pharmaceutical companies to gain additional funds for NSU.

B. Information Technology Update

Security System/Appliances – Dr. Oladipupo

Dr. Oladipupo highlighted the following security system/appliances:

- SSN and financial records scanning.
- Wireless and Network Access Control.
- Online FERPA information and quiz.
- Security Awareness week in January.

Research Computing – Dr. Oladipupo

Dr. Oladipupo highlighted the following research computing items being worked on:

- HPC supporting research in CMR and CBBS
- Nauticus connectivity via RISE SuperNode to Internet2
- IT TQM projects

iPod Update – Mrs. Massey

Mrs. Massey began a PowerPoint presentation with an overview of the iPod Pilot Project in progress on the NSU campus.

Mrs. Massey said that a grant was obtained to support the iPod Pilot Project and professional project management methodology was with core team members from the faculty, administration and students tanks participating in its deployment.

Mrs. Massey said that the equipment used to deploy the system includes an iPOD for the faculty, staff and student involved in the Project; Apple equipment to support, and the server necessary for the equipment and the recording and storage devices.

Mrs. Massey said that it is anticipated that this project will provide added value to the academic environment as well as enhance the total educational experience. Additionally, it establishes a virtual community where faculty and students would establish a teaching and learning environment outside of the traditional classroom using technology with which students are already familiar and which they welcome.

Mrs. Massey said that a survey was provided to NSU Students to help with the iPod Pilot Project here on campus to investigate the type of technology the university will supply to students and also to discover the type of technologies students bring with them to campus.

Mrs. Massey highlighted the following findings from the iPod Pilot Survey:

- 1,300 responded to the survey.
- The majority of NSU Students do not have iPods.
- 90% of the NSU Students that have iPods only use them for audio not video.

- 500 responded that they will buy an iPod in the future.

Mrs. Massey introduced Mr. Mitchell, Technical Coordinator, School of Social Work.

Mrs. Massey and Mr. Mitchell have been working on a project called, Establishing a Virtual Learning Environment Using IPODS in a Spanish Class & Social Work Research at Norfolk State University.

The Project involves the use of state-of-the art IPOD technology to download faculty lectures, PowerPoint presentations and class video recordings for the efficient and effective access to course materials in an undergraduate social work statistics course and a course in Spanish at Norfolk State University.

Mrs. Massey said that this Project is helping to bring the missing technological link-mobile lectures – into NSU students' busy world and possibly provide incentive to learn complex materials. Moreover, it introduces the students to technological advances that will become a factor in future educational techniques.

The Project is a collaborative effort which involves four areas of the University, the School of Social Work, the School of Liberal Arts, the Office of Information Technology and the Office of eLearning.

Mrs. Massey and Mr. Mitchell have presented and been invited to present the iPod Pilot Project at the following locations:

- October 18, 2007 University-wide Meeting Break Out Session.
- October 30, 2007 Presentation at the National meeting of the Council on Social Work Education in San Diego, CA.
- Invited by University of Texas to publish an article in an International Journal which they produce – 1st Quarter 2008.
- Invited to make two presentations at the 19th International Conference on College Teaching and Learning, April 2008.

C. RISE Campus Update

Phase 2 Development Update – Dr. Oladipupo

Dr. Oladipupo said that Phase 2 of the RISE Campus may take up to 2 years for construction to begin due to planning required and available resources. Progress, however, is encouraging.

Dr. Oladipupo said that in order to move forward with Phase 2, there are 3 land purchases that need to be acquired:

- Waxman Property
- Adams Sign Property
- Parking Lot Property

3. Information Items

Dr. Oladipupo said that technology at NSU is on point with protection of critical communication infrastructure and is constantly improving to meet/exceed the needs of our customers.

4. Adjournment

There being no further business, the meeting was adjourned at 10:15 a.m.

Respectfully submitted,

Adebisi Oladipupo, Sc.D.
Vice President for Research & Technology

Ms. Renitalynette K. Anderson, Chairperson
Research & Technology Committee