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University of South Carolina

BOARD OF TRUSTEES

Health Affairs Committee

November 16, 2006

The Health Affairs Committee of the University of South Carolina Board of Trustees met on Thursday, November 16, 2006, at 1:30 p.m. in the 1600 Hampton Street Board Room.

Members present were: Mr. Toney J. Lister, Chairman; Mr. Arthur S. Bahnmuller; Mr. William L. Bethea, Jr.; Mr. John W. Fields; Mr. William W. Jones, Jr.; Mr. M. Wayne Staton; Mr. John C. von Lehe, Jr.; Mr. Herbert C. Adams, Board Chairman; and Mr. Miles Loadholt, Board Vice Chairman. Dr. C. Edward Floyd was absent. Other Trustees present were: Mr. Mack I. Whittle, Jr. and Mr. James Bradley.

Others present were: President Andrew A. Sorensen; Secretary Thomas L. Stepp; Executive Vice President for Academic Affairs and Provost Mark P. Becker; Vice President and Chief Financial Officer Richard W. Kelly; Vice President for Research and Health Sciences Harris Pastides; Vice President for Human Resources Jane M. Jameson; Vice Provost and Executive Dean of Regional Campuses and Continuing Education Chris P. Plyler; Dean of the College of Nursing Peggy O. Hewlett; Dean of the Arnold School of Public Health Donna L. Richter; Dean of the College of Social Work Dennis Poole; Executive Dean of the South Carolina College of Pharmacy Joseph T. DiPiro; Interim Dean of the School of Medicine Richard A. Hoppman; Interim Dean of the South Carolina College of Pharmacy Randall C. Rowen; Chair of Health Services Policy and Management, Department of Exercise Science, Professor J. Larry Durstine; Manager of Research Development, Office of Sponsored Awards Management, Wanda K. Hutto; USC Lancaster, Associate Professor Noni Bohonak; Office of Sponsored Awards Management, Research Development Assistant, Melissa Mattison; Research Development Coordinator, Office of Sponsored Awards Management, Danielle McElwain; Director of University Communications, Division of University Advancement, Russ McKinney, Jr.; Board staff members Terri Saxon, Vera Stone and Karen Tweedy; and members of the media.

Mr. Lister called the meeting to order, welcomed those present, and asked everyone to introduce themselves. Mr. McKinney introduced members of the media who were in attendance.

Mr. Lister stated that the agenda had been posted and the press had been notified as required by the Freedom of Information Act; the agenda had been circulated to the Committee members; and a quorum was present to conduct business.

Mr. Lister directed the attention of the Committee to the agenda and called on Vice President Harris Pastides.

I. Reconstruction and Rehab Sciences Report: Dr. Pastides reported that it had been brought to his attention by the committee chair that the University had not been focusing on its relationships in the greater Spartanburg area. Therefore, it was decided to feature programs with two partners - one in Spartanburg and the other with an International Corporation in the course of this meeting.

Dr. Pastides gave background information about the legislated program known as the "Centers of Economic Excellence." It is a very important program for all three research universities in South Carolina. USC had been very successful in getting its share of the \$30 million a year allocated from lottery funds on a competitive basis for the purpose of developing centers of research excellence that would lead to tangible economic development and job creation.

Dr. Pastides stated that finding matching funds for this program was elusive. The University had a very good year in pre-matching all of the centers of economic excellence that were submitted competitively. Dr. Pastides stated that of all of the proposals submitted by USC, Clemson and the MUSC, fifty percent of the required matching funds had been pledged by Health Sciences South Carolina.

Dr. Pastides reported that the University had collaborated with Clemson and MUSC on the proposed Centers of Economic Excellence this year. He gave the following details regarding the centers:

A. South Carolina Center for Older Adult Independence: This initiative would be called: "Sharp Wheels," "Sharp Brains" and "Sharp Homes". Dr. Pastides stated that this would be a collaborative effort between USC, Clemson and MUSC.

The "Smart Homes" (community and social support) and "Sharp Brains" (memory and brain function) would be led by USC. The University would recruit two endowed chair holders who would work to design the homes of the future to facilitate healthier and more independent living by the elderly.

The "Sharp Brains" initiative would look at therapeutic interventions that could be used to stem the neurodegenerative and debilitating diseases such as Alzheimers and other related diseases.

The "Smart Wheels" (mobility) initiative would be led by Clemson University. An endowed chair holder from Clemson would help design cars of the future that

would help the elderly to be more independent and continue to be able to drive safely into their later years.

B. Healthcare Facilities Design and Testing Center: Dr. Pastides reported that this initiative would also be lead by Clemson University. Clemson had proposed to build an experimental laboratory hospital in Charleston in collaboration with MUSC and USC. The combined talents of the three research universities would help to design the hospital of the future. The research focus would involve conceiving, testing and bringing to market new concepts for a range of patient care, diagnostic and treatment spaces. New design prototypes would be designed, fabricated, and initially tested in a lab setting. Beta versions would be built and evaluated under operational conditions within Health Sciences South Carolina member hospitals. Clemson would focus on the practice of health facilities design and focus on the study of relationships between design of healthcare settings and individual health. MUSC would focus on human factors research related to clinical practice.

Dr. Pastides discussed the role USC would play in this initiative. He stated that there was a group of environmental health scientists who had developed some surface barrier properties that could be used to coat the inside of emergency rooms and surgical suites in operating rooms to prevent the transfer of bacteria and viruses from patient to patient.

C. Stroke: Dr. Pastides stated that two endowed chairs would be recruited at MUSC and one at USC to work on drug development in the area of stroke. In addition, the University would recruit talented senior investigators in translational stroke research, enhance clinical and research programs, and stimulate the development of new therapeutics to enhance existing basic science investigation by strengthening the emphasis on drug discovery and biotechnology.

D. Strategic Environmental Approaches to Electricity Production from Coal: Dr. Pastides stated that the University had competitively submitted additional proposals. One initiative would be pre-matched with a pledge by Santee Cooper. The three principal thrusts of this program were:

1. Carbon sequestration - The development of efficient methods to capture and utilize the carbon dioxide generated during the burning of coal for electricity production was the goal. The economic opportunity was that these utilities were essentially taxed or fined based on the amount of carbon dioxide that was emitted. In working with the Chemical Engineering Department, the University hoped to find ways to use the carbon dioxide so that it would not become a pollutant but would become a primary source for something productive.

2. Heavy metal removal - This was especially important as it related to efficient mercury capture.

3. Flue gas emission control - The development of more efficient methods for the clean-up of the flue gas from nitrogen and sulfur oxides would be the focus.

E. Rehabilitation and Reconstruction Sciences: Dr. Pastides stated that Dr. Richard Hawkins was one of the founding partners of the Steadman Hawkins Clinic in Colorado; he had moved to Spartanburg in 2004. He and other professionals were in the process of opening a new four story building; one level would be dedicated to research with USC faculty and students. The Greenville Hospital System was designing and constructing a new building in collaboration with USC and it would be known as the "GHS Research, Education and Innovation Center." This would be a three way partnership between USC, Steadman Hawkins Clinic and Greenville Hospital Systems.

Dr. Pastides stated that Smith and Nephew was the world's leading manufacturer of surgical implantable materials for orthopedic surgery and for implantable biomaterials. Simply put, when a new artificial hip, knee or shoulder was needed, Smith and Nephew was the leading provider of those implantable materials.

Dr. Pastides stated that 49 percent of the company's sales were in the United States and that they were an international company. He stated that Smith and Nephew saw the opportunity for research collaboration between one great university and one great orthopedic clinic. He stated that it was Dr. Hawkins' national reputation that attracted Smith and Nephew. Dr. Pastides stated that Dr. Hawkins and his colleagues interviewed scientists from all three research universities about their worthiness to conduct collaborative research and a decision was made to work with USC.

Dr. Pastides stated that the Center of Economic Excellence would be comprised of four basic areas.

First, cellular engineering related to the future of orthopedic surgery; Smith and Nephew believed that in the future, we would not be transplanting joints but instead we would be fixing them. The chemical engineers would be working on discovery of new biological characteristics that could be used to help bone and cartilage heal itself. Through the use of nanotechnology and advanced chemistry they would not put replacement joints into the human body.

Second, performance science and rehabilitation would relate to the Steadman Hawkins Clinic's reputation in sports rehabilitation. Dr. Pastides stated that the University's Exercise Science department for many years had been a place where

performance research was done. Steadman Hawkins and Dr. Durstine and his colleagues would try to mitigate the time when a professional athlete or recreational athlete was away from his or her sport.

The third area of research would be working with databases from the Steadman Hawkins clinics in Spartanburg and in Vail, Colorado. There were hundreds of thousands of patient visits that would be recorded in a relational database that would be developed by faculty from the Arnold School of Public Health and would serve as the foundation of future research.

Dr. Pastides read the following quote from a letter from Smith and Nephew:

"...our initial investment will entail a donation of \$5,000,000 over a period of five years, including funds that can be committed to the CoEE Endowment Account, as well as funds that will be used in support of the Center. The opportunities for growth of the Center are huge, and we believe that, if the translational research is as successful as we anticipate, further investment from our company is possible, including additional research and/or potential commercial endeavors. In addition, our investment is likely to be a catalyst to attract investment of other companies focused on healthcare innovation."

Dr. Pastides concluded his report by saying that the quality of our science was a main feature that made this happen and that the University brought flexibility to the negotiations.

President Sorensen thanked Dr. Pastides and his colleagues for the quality of people we have and the way in which these negotiations were conducted; this was not the first time this had happened.

Chairman Lister thanked Dr. Pastides for his efforts and his excellent report.

Mr. Lister stated that this report was received for information.

II. College of Social Work Update: Chairman Lister called on Dean Poole who stated that he had been with the University for approximately a year and a half and the University was an exciting environment for collaborative research and development. He gave an overview of the College of Social Work, facts about the college, and its vision and priorities.

Dean Poole stated that Social Work was one of the most misunderstood professions. Social workers worked with people from all walks of life. They worked in a variety of settings from hospice care to adoption agencies, schools, hospitals, senior centers, prisons, public health institutions, mental health clinics, public agencies, nonprofit agencies, corporations and the military. The majority of social workers were employed in nonprofit agencies.

Dean Poole reported the following facts about the profession of Social Work. The Wall Street Journal recently ranked social work among the top 10 best careers. Salaries were not fabulous but satisfaction with work was high. Social Work was the largest human service profession in the U.S.; more than 600,000 people in the U.S. hold social work degrees. Social workers were the largest providers of mental

health service of any profession, more than psychiatrists, psychologists, and counselors combined. Forty percent of mental health professionals working in Red Cross Disaster Relief were social workers. Thousands of social workers provide individual and family counseling, patient education, end of life planning, substance abuse treatment, crisis intervention, and other services in the military.

Dean Poole stated that the College of Social Work was established in 1969 and had 71 full-time faculty, research professors, and staff. It had an annual enrollment of approximately 550 students.

Dean Poole stated that according to the U. S. News and World Report, the school ranked 33 among 190 MSW Schools of Social Work in the U.S.

Dean Poole stated that his goal as Dean was to increase access to the Masters program. The first year of the MSW program had been available throughout the state in distance education, mainly through television interactive courses. Pending final approval from the S.C. Commission on Higher Education, the University would implement satellite programs, both in Charleston and Greenville, beginning this fall. The program in Greenville would be housed in the Greenville Hospital System New Innovation building.

Dean Poole stated that the Vision for the school was to be one of the "Top Twenty" graduate schools of social work among public universities in the nation and to be the premier school for transdisciplinary, community-engaged social work and education research.

Dean Poole presented the following table of Strategic Objectives for Education and Research in Social Work:

A. Strategic Objectives - Education:

1. Achieve full reaffirmation for the MSW Program in 2008.
2. Increase access to the MSW Program with satellites in Greenville and Charleston and with on-line technology.
3. Strengthen the Social Work Minor Program for undergraduates and then establish a BSW Program.
4. Redesign the Ph.D. Program with a *signature* focus on transdisciplinary, community-engaged research.
5. Create mutually beneficial research partnerships of significance
6. Translate and blend scientific knowledge in the university with experiential knowledge in communities

B. Strategic Objectives - Research:

1. Hire new faculty with transdisciplinary, community-engaged research experience and high potential for extramural funding.

2. Focus college efforts in four research areas with high potential for extramural funding. They are children and families; older adults; health and communities.
3. Participate in and build networks of research collaboration in these four research areas.
4. Establish "benchmarks" to compare and compete with schools of social work in "very high research" universities.

Dean Poole reported that the development campaign goal for the school was \$4 million. Funding would be raised to attract the most talented students, recruit leading teacher-research scholars, and establish an endowed research institute to more than double the current level of external funding of advanced research by the year 2010.

Mr. Lister stated that this report was received for information.

There were no other matters to come before the Committee. Mr. Lister declared the meeting adjourned at 2:30 p.m.

Respectfully submitted,

Thomas L. Stepp
Secretary