AGENDA
ECU Board of Trustees
Research, Economic Development and Community Engagement
Allied Health Lobby, LAHN Building
Tuesday, July 25, 2006

I. May 4, 2006 Minutes  Action

II. Infrastructure Update  Information
   A. Dean, Graduate School
   B. Director, Office of Sponsored Programs

III. Institutional Investment –  Information
    Research Development Award Program

IV. Milliken Report  Information

V. Extramural Activity  Information
Mr. Gretchen called the meeting to order at 10:20 AM.

Dr. Mageean thanked Mr. Greczyn for the opportunity to give the subcommittee an update on economic development.

Dr. Mageean announced that three important offices were filled in the last three months. Dr. Paul Gemperline, who served for the last two years as Acting Associate Vice Chancellor has received a permanent appointment as Associate Vice Chancellor for the Division.

A national search for a permanent Dean of Graduate School produced four very strong candidates from research universities and yielded two nominations. Dr. Patrick Pellicane from Colorado State University accepted the position as Dean of the Graduate School and will be joining July 1, 2006. Dr. Pellicane is an expert on wood science and wood products engineering. In preparation for his arrival, a Task Force on Graduate Education is preparing an in-depth look at a number of factors related to ECU's programs, including graduate stipend levels.

As of May 3, 2006, the position of Director of the Office of Sponsored Programs has been filled by Mr. Richard Best, who is currently Associate Director of Sponsored Programs at North Carolina State University. Mr. Best is knowledgeable of North Carolina policies and procedures and will be joining us as of June 16.

The next position to be filled will be a University Compliance Officer, a position that will be critically important to assure that ECU complies with all state and federal policies in the conduct of its research activities. The Brody School of Medicine has a Compliance Officer, Joan Kavuru, whose primary duties are related to medical treatment and billing. About 20% of her time is devoted to activities related to research activities. In addition to a Compliance Officer, there will be an independent Compliance Council that will be responsible for investigating problems.

Mr Greczyn: I have learned over the years that a Compliance Officer has to have authority to take action within the organization or will not be an effective agent for change.
Dr. Mageean: The Yardley Research Group is a national consulting body that helps universities position themselves strategically in terms of expansion of graduate programs. They spent a week at ECU reviewing doctoral programs, to make sure that we're developing them and operating them in the right way. They also conducted an assessment of capacity and market demand for our master's programs. Yardley will compare our data with our new peer group of universities. In cases where our peer group does not have a comparable graduate program, they will identify peer programs at other universities.

Dr. Mageean introduced Dr. Ron Nowaczyk who will make a presentation on economic development. Dr. Nowaczyk will be leaving ECU in July to take a position as Dean of the College of Arts and Sciences at the University of New Haven, CT. Also contributing to today's presentation will be John Chaffee, Marti Van Scott, Marty Hackney, and Carolyn Wilburn.

A pamphlet describing East Carolina University's Regional Development Institute (RDI) was distributed by Dr. Nowaczyk.

Dr. Nowaczyk presented a brief history of economic development at ECU:
- RDI established in 1965
- Following Hurricane Floyd, outreach was enhanced by forming the ECU outreach network
- In 2002, Chancellor Muse pushed the concept of community engagement
- ECU's Economic Development focus has increased under Chancellors Muse and Ballard

Regional Development Services (RDS) is a home to a number of offices including:
- RDI
- Center for Survey Research (CSR), does survey work as a service for regional clients on contractual basis, includes staff of political scientist, psychologist, sociologist
- Small Business and Technology Development Center (SBTDC)
- ECU Outreach Network (has 4 graduate students working on grants)
- Entrepreneurial Institute (EI), started in 2005 (Marti Hackney)
- Total RDS Staff: 19 full time employees (FTE), 6 provided by SBTDC

Community Engagement
A national movement to engage universities with their communities was stimulated by the Kellogg foundation. ECU's Outreach Network helps clients who seek assistance with community development projects. Clients who work with this group are expected to provide some buy-in.

ECU's web portal, "ECU Connect" is designed for external groups to enter their needs. RDS reviews requests for assistance and makes connections with appropriate groups at ECU. Economic Development is focused on creating jobs and investing capital compared to community development activities which are focused on quality of life issues. The Chancellor's Community Advisory Council in Greenville was established to seek input from minority community leaders.
Relationship with Academic Affairs

RDS has worked with every college in Academic Affairs over the past two years, developing projects, etc. RDS coordinates its activities with the Service Learning and Volunteer Center to match community needs with student projects. RDS bought out faculty time equivalent to four persons and is able to fund 13 graduate students to work on grants and contracts. An additional 14 students are supported through the College of Business and the Office of Technology Transfer to work on projects.

Examples:
- Honors Program students recruited to help tutor Hispanic students.
- HUD-COPC Grant in Rocky Mount: MPA program placed students in an intern program funded by HUD. RDS helped solicit input from community leaders and served to match student interns with program needs.
- Capstone Studio Design Course: Department of Interior Design works with non-profit corporations and communities to help redesign downtown areas, and has worked successfully with Tarboro, Rocky Mount and other towns to help develop conceptual drawings.
- Research in Tillery, NC

Community Engagement web link at ECU:
A map of Eastern North Carolina has been created that is searchable by county and displays all of the different projects that are conducted by ECU in these counties.

Deans will be asked to submit information electronically to keep the list of projects by county up-to-date.

Mr. Butler: This is a great service provided by the university. RDS could also add descriptions of outcomes.

Tillery project set up 4 years ago to promote health in an historic African American community, primarily through the School of Nursing. This is an ongoing project.

Opportunities exist in addressing health needs in the region:
- Health promotion and wellness
- Health disparities
- Telemedicine

External view - national perspective
For rural communities, the main focus of RDS has been to organize counties as an honest broker to cooperate in regional endeavors and partnerships. Entrepreneurship activities are focused on the concept of “grow your own” businesses.

Mr. Butler: Important focus might be agro-based fuels from soybeans.
Dr. Mageean: A very expensive biochemical engineering program would be needed to support this kind of effort and we don't have this capability at this time.

Mr. Chafee: This is one of NC Biotechnology's target areas, especially since biomass waste from agricultural activities in eastern North Carolina could be used to generate biofuels. NCSU is working in this area and there are opportunities for ECU to collaborate in this area.

Mr. Butler: Eastern North Carolina is becoming a significant producer of biodiesel and this may be an important opportunity for ECU.

Ms. Hackney: One opportunity is to work on translational research in this area.

The Southeastern Crescent Authority (SECA) is an economic development initiative for 6 states in the southeast. Eastern NC is a very poor region of the United States. The depth and persistence of poverty is second to none in the nation. In some areas, the poverty level is over 50%. Poverty has become institutionalized over a period of 30 to 40 years. The SECA initiative will pump in $30M to $40M of federal investment in economic development funds into the region. Such investments should attract an additional $10 for every $1. Our share of this investment should be about $80M to $100M.

A bill to create SECA has gone through the hearing process, with unanimous approval. The bill has been sitting in full committee for three years awaiting action because of internal battles on the House side. In the Senate, there has been some conflict as to what this bill should accomplish. A new bill was introduced by Senator Dole last year, and she is very interested in moving this bill forward. She is currently seeking co-sponsors for the bill with a Dear Colleague letter. So far four co-sponsors have been obtained. Al Delia expects support for SECA.

Al Delia will provide talking points for Mark Tipton who will be meeting with one of our Representatives next week.

External RDS collaborations
State: NC Business Resource Alliance
       NC Rural Economic Development Center
       NC Biotechnology Center (office in Greenville)
Departments:
       Department of Commerce
       Department of Environment and Natural Resources
       Department of Transportation
UNC System:
- Economic Development Committee with UNC-GA.
- ECU Reporting of Economic Development (ECU is one of only two UNC schools that have posted their report)
- UNC-CH – partnering in eastern NC.
- WCU and ASU have similar offices but in transition.
- NCSU – potential exists for more partnerships
- UNC Institute for Community and Economic Development (ICED) has been proposed.

Regional:
- NC Eastern Region Partnership
- NC Northeast Partnership
- Regional Councils of Government (CoGs)
- Local County Governments:
  - County Managers
  - County Planners
  - Economic Developers
- SBTDC

Regional RDS Activities:
- Eastern Region (ER) Partnership
  - Business Clusters (Michael Porter)
  - Visioning Plan (HB 1298)
- ER “Water” Counties
  - UNC-CH & ECU studies
- STEP Grant Program (Small Towns)
  - Hyde County ($200K)
  - Plymouth ($200K)
  - Farmville ($11K)
- Downtown Revitalization (including Capstone Studio and City & Urban Planning)
  - Hyde County
  - Wilson
  - Tarboro
  - Plymouth
  - Greenville
  - Faison
- Regional United Way Partnerships
  - Community Impact Studies
  - Board Development
- Eastern NC Regional Index (June 06)
Entrepreneurship
Kellogg Grant to NC through the Rural Center ($141K to ECU):
  Develop Entrepreneur Delivery System (EDS) in eastern NC
  African-American, Latino, HUB networks
  Case Studies of County Efforts in Economic Development (NC, SC, & VA)
  Evaluation of Statewide System (with WCU & RTI)
Office of Technology Transfer
Entrepreneurial Initiative
SBTDC

Mr. Tipton: Does ECU have any activities in Brunswick County?

Dr. Nowaczyk: We do not because the southeast regional partnership has not traditionally looked to universities for help.

Mr. Tipton: Brunswick County is the fastest growing coastal county in the country. Although UNCW is there, the amount of outreach is low and there is a huge opportunity for ECU to have an impact.

Ms. Wilburn: STDBC has an office there and is working on economic development.

Mr. Butler: ECU is doing a fantastic job on community engagement and economic development. We should produce a nice, slick brochure to send out to community leaders to make them more aware of what we're doing and how we can help.

Marti Van Scott gave a presentation on the Office of Technology Transfer (OTT):

  The purpose of OTT is to promote University innovation for the greatest public good. We accomplish this by dedicating inventions to public, license inventions, and spinning out new businesses, as appropriate. Sometimes the best approach is to publish great ideas in the open literature, other times best approach is to license an invention, other times spin out a new business.

Office of Technology Transfer (OTT):
  • OTT was established in 1995, received its first budget in 1997, and received funding to make patent applications in 2003.
  • OTT has processed 162 invention disclosures, filed 27 non-provisional and 54 provisional patent applications.
  • OTT has $1.75 M in earned income to date, 8 active license agreements now, 3 licenses pending negotiations, 8 start up opportunities, 3 are active today, 1 option pending.

ECU Start-up companies:
  EpiGenesis, 1995, asthma therapeutics
  Janus Development, 2001, SpeechEasy
  Entegrion (formerly Hemocellular therapeutics, 2002, freeze dried blood platelets)
  Cardiovascular Resonances, 2005, stroke detection
Mr. Tipton: Who owns Janus?

Ms. Van Scott: Janus is incorporated as an S Corp and has a number of individual shareholders.

Mr. Butler: What drives business is innovation; what drives a product to market is investment. Do we have a plan to push start-ups or is our response passive?

Ms. Van Scott: In the past our participation was passive, e.g., get behind a passionate faculty member. In the case of Speech Easy, there was no existing company that could pick up this project. There was not a working model for a small market. Al Delia and Mart Van Scott worked on a plan to develop the products. ECU has US patent rights but lost international rights through investigator news releases in the Daily Reflector. Despite this, a start-up company is marketing a device internationally without international patent rights.

Mr. Tipton: Who owns ECU intellectual property?

Ms. Van Scott: According to federal and state law, ECU owns the rights to intellectual property. Faculty sign employment contracts that confirms this. Copyrights are different and depend on a case-by-case basis.

Mr. Tipton: Most universities turn intellectual property over to private companies and they turn it back over to universities.

OTT Leveraged resources
ECU works hard to leverage its small resources to promote technology transfer. ECU was ranked among top 10 universities for technology transfer efficiency. We do the most with less. ECU participates in a statewide competition for development of business plans and has won several times.

Entegron
10+ years of research resulted in jointly owned technology with UNC-CH, extensive patent portfolio, original licenses to industry and cut loose after mergers. This created a start-up opportunity. ECU competed in the UNC-CH Keenan Flagler competition and attracted significant start-up funding. The ECU investor network is also contributing start-up funds.

Cardiovascular resonances
A multidisciplinary effort (Math, Physics, Cardiology) approach to diagnosing risk for stroke. The start-up company pitched the opportunity to Entrepreneurial Initiative, participated in business plan development competitions, placed in the top few, which resulted in investment by the Entrepreneurial Initiative. Significant start-up funding opportunities have resulted.
Ms. Hackney gave a brief presentation on the Entrepreneurial Initiative (EI):

ECU has had significant problems in the past spinning out companies with new technology. ECU's EI was proposed and funded by Dr. Ballard in March 2005. The biggest problem is that we as a university don't know much about commercialization of an idea. The EI process was created to address this problem.

Entrepreneurial Initiative:
- The EI process includes market assessment, development of a business strategy, business plan, market analysis, and market plan.
- EI helps create an Angel Investor Network. No other university other than ECU has this. They rounded out funding for one company a year: in 2002, Janus; 2003 Epigensis; and in 2004 funded a clinical trial management group.

ENC Investor network was created with 40 active investors.
- Investors meet twice per month
- Next week Hemocellular will be back at ECU with new proposal
- Investment of over $400K in early stage companies
- Reviewed 15 companies from 34 submissions
- College of Business students review plans, organize meetings, and start due diligence (7 MBA Interns, 3 graduations)

Education activities
- Will start monthly class next fall on how to commercialize technology
- Funding for workshop is in hand. Speakers will be faculty from other universities that have successfully completed startup companies, will invite top innovators

Carolyn Wilburn gave a brief presentation on the Small Business & Technology Development Center (SBTDC):

SBTDC Mission: Support the growth and development of North Carolina’s economy by:
- Encouraging entrepreneurship
- Assisting in the creation and expansion of small to medium sized enterprises
- Facilitating technology development and commercialization

SBTDC was established at ECU in 1985 and performs these services without fee to clients.

SBTDC Staff
- Director
- Two General Business Counselors
- One Disaster Assistance Counselor
- One Manufacturing/Technology Counselor
- Office Manager
- Four to xix MBA Graduate Students
SBTDC Activities

- One-on-one business counseling in a 12-county area (January 1, 2005 – May 1, 2006)
  - 578 clients
  - 7,900 hours
- Student involvement:
  - 3,300 counseling hours were provided by College of Business Graduate Students
  - ECU College of Business student teams participated in statewide and national competitions; 1st place nationally and 3rd place statewide
- Training
  - 27 events; 355 attendees
- Access to Capital
  - $8.5 million in client financing
- State's first responder for business-related disaster recovery
  - After Hurricane Floyd, our center at ECU assisted eastern NC businesses in obtaining over $37M in disaster relief funding
  - Worked with Mississippi SBTDC to provide assistance to Hurricane Katrina victims

Mr. Butler: What impact have your activities had on 578 companies?

Ms. Wilburn: SBTDC has created marketing plans, helped develop expansion plans obtain, etc.

Dr. Mageean: With Ron’s departure, we as a university will assess how we want to proceed forward. We have a strong base on which to build and we will be working to continue and enhance it.

Mr. Tipton: Who are the angel investors? Are they mostly ECU graduates?

Ms. Hackney: The group of angel investors is somewhat cautious and would not like to have their names widely publicized. There are graduates of ECU, NCSU, UNC-CH and other schools as well.

Submitted by:

Paul J. Gemperline
Economic Development
May 4, 2006

Brief History of Economic Development at ECU

- Regional Development Institute (RDI) established in 1965.
- Following Hurricane Floyd, outreach was enhanced (e.g., ECU Outreach Network)
- Chancellor Muse added a component of “community engagement”
- Economic Development emphasized in strategic planning (Muse & Ballard).
Regional Development Services (RDS)

- Home to a number of offices:
  - RDI
  - Center for Survey Research (CSR)
  - Small Business and Technology Development Center (SBTDC)
  - ECU Outreach Network
  - Entrepreneurial Initiative (EI)

- Staff:
  - 19 FTE (6 FTE provided by SBTDC)

Community Engagement

- Part of a national movement to “engage” universities in their communities.
- ECU’s Statement on Community Engagement:
  
  Community Engagement is an active partnership between communities of Eastern North Carolina and East Carolina University to develop, exchange, and apply knowledge, information, expertise, and resources for everyone’s benefit. These resources include, but are not limited to faculty, staff, and students.

- ECU web portal (ECU Connect) first in the system, includes Spanish version. [http://www.ecu.edu/rds/ECUnet/]
- Economic Development (Jobs/Capital) compared with Community Development (Quality of Life)
- Chancellor’s Community Advisory Council in Greenville
Relationship with Academic Affairs

- Worked with every College in Academic Affairs over the past 2 years.
- Coordination with Service Learning and Volunteer Center.
- This year provided support for 4 faculty and 13 graduate students this past year on grants and contracts.
  - 14 additional students supported through College of Business & Office of Tech Transfer
- Hourly Pay for Undergraduate Students

Examples of Program Support

- Honors Program and its Hispanic Tutoring Project
- Political Science – MPA Intern Program funded by HUD
- HUD-COPC Grant in Rocky Mount
- Capstone Studio Design Course
- Research in Tillery, NC
Relationship with Health Sciences

- Some initiatives with Allied Health Sciences (e.g., Tillery project)
- Opportunities exist especially in addressing health needs in region
  - Health Promotion & Wellness
  - Health Disparities
  - Telemedicine
- Companies with Health Emphasis

External View – National Perspective

- For Rural Communities, focus is on:
  - Regional Endeavors
  - Partnerships
  - Entrepreneurship (not buffalo hunt) – grow your own
  - Expanding “traditional” view of university involvement beyond graduating students for workforce.
- SECA Initiative
External View – State Perspective

- NC Business Resource Alliance
- NC Rural Economic Development Center
- NC Biotechnology Center (Office in Greenville)
- NC Departments:
  - DOC
  - DENR
  - DOT
- State Reports:

External View – UNC System

- Economic Development Committee with UNC-GA.
- ECU Reporting of Economic Development. [Link](http://www.northcarolina.edu/content.php/apps/ua/econdev_profile/index.php)
- UNC-CH – partnering in eastern NC.
- WCU and ASU have similar offices but in transition.
- NCSU – potential exists for more partnerships
- UNC Institute for Community and Economic Development (ICED) has been proposed.
External View – Regional Involvement

- NC Eastern Region Partnership
- NC Northeast Partnership
- Regional Councils of Government (CoGs)
- Local County Governments:
  - County Managers
  - County Planners
  - Economic Developers
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Regional Activities

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- **Regional United Way Partnerships**
  - Community Impact Studies
  - Board Development
  - Eastern NC Regional Index (June 06)

Entrepreneurship

- **Kellogg Grant to NC through the Rural Center ($141K to ECU):**
  - Develop Entrepreneur Delivery System (EDS) in eastern NC
    - African-American, Latino, HUB networks
  - Case Studies of County Efforts in Economic Development (NC, SC, & VA)
  - Evaluation of Statewide System (with WCU & RTI)
- **Office of Tech Transfer**
- **Entrepreneurial Initiative**
- **SBTDC**
Office of Technology Transfer

- Promote University innovations for greatest public good
  - Dedicate invention to the public
  - License invention to existing business
  - Spin-out new business entity
- OTT established 1995; resources provided 1997
- Processed 162 invention disclosures
- Filed 27 non-provisional and 54 provisional patent applications
- $1.75M earned license income
- 8 Active license agreements
- 3 Licenses pending negotiations
- 8 Start-up opportunities; 3 active today; 1 option pending

Tech Transfer - Active Start-Ups

- EpiGenesis, 1995 (Asthma Therapeutics)
- Janus Development, 2001 (SpeechEasy™)
- Entegrion (formerly Hemocellular Therapeutics), 2002 (platelets)
- Cardiovascular Resonances (CVR), 2005 (stroke detection)
Tech Transfer - Leverage Resources

- ECU among top 10 for tech transfer efficiency (Chronicle of Higher Education, 07/19/02)
- SBTDC
- UNC Technology Development Initiative / RTI
- Professional organizations, advisors, brokers
- Relationships (EI, ECU Schools & Colleges, UNC-CH, UNC-C, NCSU, Duke, NCBC, MCNC)
- Successes

Tech Transfer - Entegron

- >10 years research; freeze-dried platelets, wound healing
- Multi-institutional (ECU and UNC-CH)
- Extensive patent portfolio
- Terminated industry license → Start-up opportunity
- UNC-CH Kenan Flagler b-plan competition
- ECU investor network
Tech Transfer - Cardiovascular Resonances (CVR)

- Multidisciplinary approach to clinical problem
  - Mathematics, Physics and Cardiology
- Business opportunity (EI)
- B-plan development
  - Five Ventures (UNC-C)
  - Duke Start-up Competition
  - NC IDEA (MCNC)
  - STTR grant application

Entrepreneurial Initiative (EI)

- Began in March 2005
- Purpose:
  - To help Spin-Ins and Spin-Outs in Eastern NC succeed with ECU support.
  - Enhance Angel and Venture Capital in Eastern NC
  - Provide workshops to encourage innovation and entrepreneurship
  - Involve ECU students in entrepreneurship
EI Activities for Year 1

- 1 spin-in and 2 spin-outs
  - Market assessment – research & competition
  - Business strategy and plan
- ENC – Investor Network
  - Investment of over $400K in early stage companies
  - Reviewed 15 companies from 34 submissions
  - CoB students review plans, organize meetings, and start due diligence (7 MBA Interns, 3 graduations)

EI Activities for 2006-07

- Innov8r Series
  - Partnership with CoB, CoT&CS, OTT, and NC Biotechnology Center and CED
  - 8 sessions on Commercialization of Technology
- Community Network
  - Sponsorships and assistance from service providers (Attorneys and accountants)
  - Other entities (CED, NCSU, Duke, UNC)
SBTDC

Small Business & Technology Development Center

- Mission: Support the growth and development of North Carolina’s economy by:
  - Encouraging Entrepreneurship
  - Assisting in the creation and expansion of small to medium sized enterprises
  - Facilitating technology development and commercialization

- SBTDC was established at ECU in 1985

SBTDC staff is comprised of:

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- Two General Business Counselors
- One Disaster Assistance Counselor
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SBTDC

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SBTDC

- Training
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ECU Opportunities

- Vision: ECU serves as the model for “engaged” universities in a rural region.
- Focus Areas:
  - Regionalism (both Economic & Community Development)
  - Partnerships
  - Measurable Outcomes
  - Rewards for faculty & students
- Serve as a data resource for region

Business/Industry Opportunities

- Tourism (Ecotourism & Heritage Tourism)
- Military (Procurement (Contracts), Workforce Development & Entrepreneurship)
- Marine Trades & Marine Science
- Retirees
- Engineering (Prototyping & Logistic Distribution)
- Biotechnology (Greenville & Rocky Mount)
- Medical Devices
Suggested Steps

- Better Linkage with Faculty & Students (tied to research agendas)
- Strengthen Partnerships in Region
  - Faculty Fellows Program
  - Data Resource for Economic Development
  - “Relationship-building”
- Serve as Outlet for Information in eastern NC
- Develop and Facilitate “Focused” Initiatives
Early Successes for 2005 Award Recipients:
The Division is pleased to report early successes for the recipients of the 2005 Research Development Award (RDA) Program. Six of the faculty recipients have received seven grants totaling $1,142,883. This amount is more than double the total amount awarded to the 23 RDAs in 2005. The award period for the 2005 grants ends 6/30/2006; we anticipate additional external grant submissions and awards to be produced in the following six months. The 2005 awardees have already submitted 40 grant applications requesting $16,267,961. The accompanying chart shows the results to date of the Division’s Research Development Award Program.

These early successes of the RDA program include a significant National Science Foundation (NSF) CAREER Award to Dr. Rebecca Torres (Geography). This prestigious five year award enables a young scholar to integrate their research with their teaching activities. The awards also include two additional NSF grants to Dr. Jamie Kruse to further her studies on economic impacts of natural disaster.

In Spring 2006, the Division held its second RDA competition. 22 awards were made totaling $609,432. The award period begins July 1, 2006 for one year.

The Division began the RDA Program in 2005. Its goal is the expansion of externally funded research at ECU. Internal funds cannot alone fund the growth of research at ECU. External support is needed. This program provides seed funds ($20,000 to $25,000) to faculty members to obtain preliminary data for their research projects. They can then use this data to make their external grant applications more competitive. Meritorious faculty projects are selected via a rigorous peer review process. In 2006, an additional supplement of $15,000 was made available to applicants to support a PhD student. Awardees are required to submit at least one external grant application within six months of completion of the award.
Division of Research and Graduate Studies

Research Development Award (RDA) Program

### 2006 Awards:

<table>
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<tr>
<th># RDA Awards</th>
<th>Total $ RDA Awards</th>
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<tr>
<td>22</td>
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Award Period: July 1, 2006-June 30, 2007

### 2005 Awards & Early Successes:

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<th># RDA Awards</th>
<th>Total $ RDA Awards</th>
<th># External Grant Submissions as of 6/23/06</th>
<th># External Awards as of 6/22/06</th>
<th>Total $ External Awards as of 6/23/06</th>
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<td>40</td>
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Award Period: May, 15 2005 - June 30, 2006

### External Awards Resulting from 2005 Award Program as of 6/23/06

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<th>Awardee</th>
<th>Unit</th>
<th>Sponsor</th>
<th>Total Award</th>
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<tr>
<td>Jamie Kruse</td>
<td>Economics</td>
<td>NSF</td>
<td>$29,800</td>
<td>10/11/2005</td>
<td>Collection of Economic Impact Data: Implications for Disaster Area &amp; Host Regions</td>
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<td>Jamie Kruse</td>
<td>Economics</td>
<td>NSF</td>
<td>$172,569</td>
<td>1/13/2006</td>
<td>The New Orleans; Evaluating Preferences for Rebuilding Plans after Hurricane Katrina</td>
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<td>Haiyong Liu</td>
<td>Economics</td>
<td>U. Wisconsin</td>
<td>$29,900</td>
<td>8/26/2005</td>
<td>Participation in Food Assistance, Maternal Employment, and Child Obesity Programs</td>
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<td>Megan Perry</td>
<td>Anthropology</td>
<td>Joukowsky Family Foundation</td>
<td>$1,499</td>
<td>3/1/2006</td>
<td>Al-Jafr Mummy Project</td>
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<tr>
<td>Kyle Summers</td>
<td>Biology</td>
<td>NSF</td>
<td>$227,000</td>
<td>3/1/2006</td>
<td>Sexual Conflict and Parental Care in Poison Frogs</td>
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<tr>
<td>Rebecca Torres</td>
<td>Geography</td>
<td>NSF</td>
<td>$436,995</td>
<td>2/17/2006</td>
<td>CAREER: Rural Transformation and Latino Transnational Migration in the U.S. South</td>
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<td>Adenosine Signaling and Vascular Endothelial Dysfunction Following Fine Airborne Particulate Matter</td>
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<td>Michael Van Scott*</td>
<td>Physiology</td>
<td>Philip Morris Research</td>
<td>$247,000</td>
<td>8/15/2005</td>
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* Co-PI on this grant.
**Sponsored Program Activity**

After two years of decline, there was a marked increase in both proposal and award dollars for Sponsored Research during the 2005-2006 Fiscal Year.

Funding requested in proposals for new sponsored programs increased from $138,094,220 in 2004-2005 to a projected $206,470,431 in 2005-2006; an increase of over 49%. Using a conservative projected annual growth rate of 10% per year, proposals will exceed $300 Million by 2010.
New funding for awarded sponsored programs also increased during 2005-2006. During the year ending June 30, a projected $36,032,018 will be received. This is nearly a 9% increase from last year's total of $33,076,399.

Using the same conservative projected annual growth rate of 10% per year, new awards for sponsored programs will exceed $50 Million by 2010.
ECU, previously recognized for its outstanding technology transfer activity (Chronicle for Higher Education, July 2002), is again highlighted as an example of success. The Milken Institute, an independent, non-profit economic think tank, citing data from the Association of University Technology Managers (AUTM), ranks ECU as third in the nation for the number of patent applications filed per million dollars of research expenditures over a period of five years spanning from 2000 to 2004. This ranking will be published in the Institute’s Mind-to-Market report in September 2006. The mission of the Institute is to improve the lives and economic conditions of diverse populations in the U.S. and around the world by helping business and public policy leaders identify and implement innovative ideas for creating broad-based prosperity.