Research and Development FY 2006
Selected Highlights

Office of the Vice President for Research and Development

Willie F. Trotty, PhD
January 2007
# Funded Research and Sponsored Programs (By Disciplinary Fields)

<table>
<thead>
<tr>
<th>University Unit</th>
<th>Dollar Amount</th>
<th>University Unit</th>
<th>Dollar Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Sciences</td>
<td>$8,056,610</td>
<td>Psychology</td>
<td>$81,400</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>$1,134,883</td>
<td>Social Sciences</td>
<td>$658,503</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$51,995</td>
<td>Other Sciences (chem, Physics)</td>
<td>$1,780,628</td>
</tr>
<tr>
<td>Engineering</td>
<td>$5,288,577</td>
<td>Arts and Humanities</td>
<td>$131,522</td>
</tr>
<tr>
<td>Environmental Sciences</td>
<td>$12,721</td>
<td>Business Administration</td>
<td>$190,961</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td>$356,953</td>
<td>Education</td>
<td>$4,032,188</td>
</tr>
<tr>
<td>Medical Sciences</td>
<td>$461,705</td>
<td>TOTAL</td>
<td>$22,238,646</td>
</tr>
</tbody>
</table>
Total Expenditures for the Conduct of R&D Fiscal Years 2002 - 2006

FY 2002: $11,104,1190
FY 2003: $11,400,522
FY 2004: $10,697,128
FY 2005: $10,919,521
FY 2006: $11,252,804.00
PVNAA Annual Meeting 2006

Research Centers and Institutes

- Center for Applied Radiation Research (CARR)
- Center of Excellence for Communications Systems Technology Research (CECSTR)
- Center for Materials, Microdesign and Micro-fabrication (CM³)
- Thermal Science Research Center (TSRC)
- Computational Fluid Dynamics Institute (CFDI)
- Texas Gulf Coast Environmental Data Center (TEXGED)
- Solar Observatory
- Future Aerospace, Science and Technology (FAST) Center
- Cooperative Agricultural Research Center (CARC)
- The Texas Juvenile Crime Prevention Center (TJCPC)
Center of Excellence in Digital Battlefield Communications Research

- The center is to develop enabling technologies for digital battlefield communications for the next generation of communication devices based on bandwidth and power efficient ad hoc networking.


- Funding Army Research Laboratory (ARL)

- Director: Dr. Dhadesugoor R. Vaman, Texas Instruments Endowed Professor in Electrical Engineering (Dhadesugoor_vaman@pvamu.edu)
Wireless Network Projects

- Kendleton Wireless Network - Collaborators: City of Kendleton, Bay Ridge Christian College, Powell Point School District, American Distance Education Consortium (ADEC), Nebraska and Tachyon, Inc. (N&T, Inc.) California
- Double Bayou Wireless Network - Collaborators: Precinct 1 Chambers County, Double Bayou Community Group, ADEC, N&T, Inc.
- Funding: The Department of Commerce
Ethiopian Sheep and Goat Productivity Improvement Program

- Collaborators: Langston University; Ethiopia Ministry of Agriculture and Rural Development; United States Agency for International Development (USAID)
- Goal: To increase the productivity (food and economic Securities) of small ruminants in Ethiopia.
- Funding: $5.5 million over 5 years
- Contact: Dr. Freddie Richards flrichards@pvamu.edu
Invention Disclosures

• Thermal Science Research Center (TSRC)
  – Local Wall Heat Flux/Temperature (WHFT) Meter for Convective Flow
    • Dr. Ronald D. Boyd, Honeywell Professor, et al

• Center of Excellence for Communications Systems Technology Research (CECSTR)
  – Motor Control Method and Apparatus with Multi-Objective Observer for Disturbance Rejection
    • Dr. Cajetan Akujuobi, Center Director, et al

• Department of Chemistry and the Cooperative Agriculture Research Center (CARC)
  – Bioglass and Bioglass Composites for Tissue Engineering
    • Dr. Remi Oki, Head Department of Chemistry
    • Dr. Raul Cuero, Research Scientists, CARC
## Prairie View A&M University Capital Campaign

### Contributions by Source of Support

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gifts (cash and other negotiable instruments)</td>
<td>$ 8,004,683.57</td>
</tr>
<tr>
<td>Pledge Balances</td>
<td>$ 1,847,567.00</td>
</tr>
<tr>
<td>State/University Match</td>
<td>$ 3,543,861.60</td>
</tr>
<tr>
<td>*Federal</td>
<td>$ 1,441,376.00</td>
</tr>
<tr>
<td>**In-Kind</td>
<td>$ 1,847,567.00</td>
</tr>
<tr>
<td>**Total</td>
<td>$16,685,055.17</td>
</tr>
</tbody>
</table>

*U. S. Department of Education approved $500,000 for an Endowed Chair in Educational Leadership (2004) and $500,000 for an Endowed Chair in Microbiology (October 2005)*

U. S. Department of Interior approved $441,376 for the restoration of the Alfred N. Poindexter Veterinary Hospital

**Gifts of software and equipment to Computer Engineering Technology**

Office of the Vice President for Research and Development
May 2006
Extend the View
*Shape tomorrow today*

Prairie View A&M University
Capital Campaign

Office of the Vice President for Research and Development
May 2006

PVNAA Annual Meeting 2006
Market Value of University Endowment (FY2000 through May 2007)

$27,108,581.00
$24,303,333.00
$23,071,017.00
$27,101,563.00
$36,315,563.63
$40,438,383.00
$56,554,543.21

$20,000,000
$10,000,000
$0

$60,000,000
$50,000,000
$40,000,000
$30,000,000

1999-2000
2000-2001
2001-2002
2002-2003
2003-2004
2004-2005
2005-2006
Extend the View

Shape Tomorrow Today

Donor Recognition Items

- **$50,000 and above** certificate, luggage tag, engraved rocking chair
- **$20,000 - $49,999** certificate, luggage tag, engraved lamp
- **$10,000 - $19,999** certificate, luggage tag, clock
- **$5,000 - $9,999** certificate, luggage tag, Texas-shaped paperweight
- **$1,000 - $4,999** certificate, luggage tag
- **$.01 - $999** certificate, tote bag/insulated bag

All donors will be recognized on donor wall to be placed in the Memorial Student Center.

Special recognition and naming recommendations will be considered for gifts of $50,000 or more.
Recent Naming Opportunities

- The Opal Johnson Smith Auditorium located in the Memorial Student Center
- The General Julius W. Becton, Jr. Auditorium located in the A. I. Thomas Administration Building
- The Louise T. Becton Lecture Series in the College of Nursing
- The Nathelyne Archie Kennedy Architecture and Arts Building housing the School of Architecture, Art Program, and the Texas Center for the Preservation of History and Culture with Emphasis on African Americans)
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Alumni Database