STATE OF THE UNIVERSITY

President David W. Leebron
Oct. 21, 2010
As a leading research university with a distinctive commitment to undergraduate education, Rice University aspires to pathbreaking research, unsurpassed teaching and contributions to the betterment of our world. It seeks to fulfill this mission by cultivating a diverse community of learning and discovery that produces leaders across the spectrum of human endeavor.
Vision for the Second Century: Five years of progress

- Broader, deeper engagement with Houston
- Enhanced research mission
- Larger international presence
- New campus facilities, vibrancy
- 949 entering undergraduates, up 30 percent from 726 in fall 2004
2006: NanoJapan (U.S.-Japan cooperative research and education)
2007: Chao Center for Asian Studies
2007: Rice 360
2008: REEP
2008: Undergraduate business minor; now 13 minors
2009: Rice Center for Engineering Leadership
2010: Institute for Sustainable and Applied Infodynamics with Nanyang Technological University, Singapore
2010: Institute for Urban Research
2010: Architecture Totalization Studios
Contributions to Houston

• Center for Civic Engagement
• Houston Area Survey
• Center for Philanthropy and Nonprofit Leadership
• Art History graduate program/MFA
• REEP
• Policy analysis
• SSPEED

• Architecture
• NASA
• Symphony
Urban research and outreach

Co-directors Michael Emerson and Stephen Klineberg
A team led by Ed Knightly won a $1.8 million NSF grant for one of the first real-world tests of wireless communications technology that uses a broad spectral range to deliver free, high-speed broadband Internet service.

Bob Stein will study how the new technology is used by individuals and groups that have previously been underserved by the Internet and cellular networks.

The grant provides opportunities for undergraduates in the social sciences and humanities to participate in research that can significantly influence public policy about the Internet and wireless communication.
The Rice Space Initiative is designed to foster partnerships between Rice, NASA and local industry, generate collaborative research projects for exploration of space, and educate a new generation of leaders in related disciplines.

- Inaugural Space Frontiers Lecture Series (Spring 2011)
- Collaborative partnership across campus
- Multi-disciplinary connections to Greater Houston space industry
- Professional Science Masters in Space Studies (Fall 2012)
• **John McDevitt**: $3.7 million to develop cancer diagnostics leading a team including MD Anderson, BCM and UT San Antonio.

• **Rebecca Richards-Kortum**: $1.8 million to develop a new imaging system for the early detection of oral cancer.

• **Rebekah Drezek**: $200,000 for one of the first 13 "high-impact/high-risk" awards for work with Aaron Foster of the Center for Cell and Gene Therapy (BCM, TCH, TMH) on combined immunotherapy and light-activated photothermal cancer therapy.
• Vivian Ho and Thomas Aloia (TMH) received funding from the National Cancer Institute for research on strategies to restrain cost growth while improving outcomes for cancer patients.

• Dmitri Lapotko and Jason Hafner received NIH funding for investigating the use of “nanobubbles” in cancer therapy.
Rice, TMC team take aim at deadly pancreatic cancer

Houston (Oct. 18, 2010) - Researchers from Rice University’s Laboratory for Nanophotonics, the Radiology Department at Baylor College of Medicine and the University of Texas MD Anderson Cancer Center are preparing to test a combined approach for diagnosing and treating pancreatic cancer with a specially engineered nanoparticle.

The five-year, preclinical testing program will be funded by a newly announced $1.8 million grant from the National Cancer Institute’s Alliance for Nanotechnology in Cancer program.
Nano 3D: The Bio-Assembler™

The Bio-Assembler™ is a device for culturing cells in three-dimensions by magnetic levitation, for more accurate tests of cancer drugs. Developed in collaboration with MD Anderson Cancer Center.
$1 million NIH award to Rice and Texas Heart Institute to use nanoparticles to track stem cells: Lesa Tran is the link.

Rice-Texas Heart Institute members Lon Wilson, Lesa Tran, Maria da Graça Cabreira and Emerson Perin. Lesa invented the gadonanotubes as an undergraduate and is now a Ph.D. student.
Latin America

• New faculty
  - Luis Duno-Gottberg, Gisela Heffes and Manuel Gutierrez (Hispanic Studies)
  - Alida Metcalf, Moramay Lopez-Alonso (History)
  - Cymene Howe (Anthropology)

China

• May 2010 China delegation
  - Rosemary Hennessy, Caroline Levander, Brian Hammer; organized by Tani Barlow, Chao Center for Asian Studies
Faculty
Tenured and tenure-track faculty: 537 fall 2010; +56 since fall 2004

Full-time Faculty Appointments, Departures, and Retirements (Includes Administrative Appointments) FY00 - FY11

- Faculty Appointments
- Departures
- Retirements

Note: Departures and retirements exclude deceased; Data is based on year of appointment and includes President, Provost, Deans and Vice Provosts with faculty appointments

Source: Faculty Database, Provost’s Office
Undergraduate student-to-faculty ratio

Note: Faculty includes instructional faculty FTE, excluding Jones School.
Faculty new hires by gender

Faculty New Hires (Tenured/Tenure-track) by Gender
FY 2000 - FY 2011

Source: Faculty Database, Provost’s Office
Note: Data is based on year of appointment
Faculty salaries: professor

Source: AAUP Salary Surveys
Qualitative measures of productivity

18 papers authored or co-authored by Rice faculty in the journals *Science* and *Nature* since July 2009
• Graham Bader, *Hall of Mirrors: Roy Lichtenstein and the Face of Painting in the 1960s*

• Marcia Brennan, *Curating Consciousness: Mysticism and the Modern Museum*

• Justin Cronin, *The Passage*

• Elaine Ecklund, *Science v. Religion: What Scientists Really Think*

• Jeffrey Kripal, *Authors of the Impossible: The Paranormal and the Sacred*


• Alexander Regier, *Fracture and Fragmentation in British Romanticism*

• Cary Wolfe, *What is Posthumanism?*

• Diane Wolfthal, *In and Out of the Marital Bed: Seeing Sex in Renaissance Europe*
Faculty effort for sponsored projects: up ~37 percent since 2008

Proposals submitted

<table>
<thead>
<tr>
<th>Year</th>
<th>Proposals Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>799</td>
</tr>
<tr>
<td>2006</td>
<td>805</td>
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<tr>
<td>2007</td>
<td>805</td>
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<tr>
<td>2008</td>
<td>810</td>
</tr>
<tr>
<td>2009</td>
<td>982</td>
</tr>
<tr>
<td>2010</td>
<td>1103</td>
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</table>

Dollars (millions) requested

<table>
<thead>
<tr>
<th>Year</th>
<th>Dollars Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>390</td>
</tr>
<tr>
<td>2006</td>
<td>284</td>
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<tr>
<td>2007</td>
<td>297</td>
</tr>
<tr>
<td>2008</td>
<td>399</td>
</tr>
<tr>
<td>2009</td>
<td>591</td>
</tr>
<tr>
<td>2010</td>
<td>610</td>
</tr>
</tbody>
</table>
Social Sciences: Grants tripled

<table>
<thead>
<tr>
<th>Fiscal year</th>
<th>Number of awards</th>
<th>Grant funding (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY06</td>
<td>20</td>
<td>$1.3</td>
</tr>
<tr>
<td>FY07</td>
<td>11</td>
<td>$1.1</td>
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<tr>
<td>FY08</td>
<td>18</td>
<td>$2.6</td>
</tr>
<tr>
<td>FY09</td>
<td>33</td>
<td>$2.8</td>
</tr>
<tr>
<td>FY10</td>
<td>43</td>
<td>$3.9</td>
</tr>
</tbody>
</table>

- **Melissa Marschall:** $639,410 NSF grant to study local elections
- **Steve Klineberg:** $475,000 Houston Endowment grant to study Houstonians' attitudes about the arts, education and health care
<table>
<thead>
<tr>
<th>Institution</th>
<th>Papers</th>
<th>Citations</th>
<th>Citations/Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Rice University</td>
<td>381</td>
<td>11,949</td>
<td>31.36</td>
</tr>
<tr>
<td>2 - Harvard University</td>
<td>596</td>
<td>16,467</td>
<td>27.63</td>
</tr>
<tr>
<td>3 - UC Santa Barbara</td>
<td>964</td>
<td>25,376</td>
<td>26.32</td>
</tr>
<tr>
<td>4 - University of Washington</td>
<td>822</td>
<td>21,348</td>
<td>25.97</td>
</tr>
<tr>
<td>5 - IBM Corporation</td>
<td>573</td>
<td>13,822</td>
<td>24.14</td>
</tr>
<tr>
<td>8 - MIT</td>
<td>1,654</td>
<td>34,017</td>
<td>20.57</td>
</tr>
<tr>
<td>11 - Stanford University</td>
<td>728</td>
<td>13,853</td>
<td>19.03</td>
</tr>
<tr>
<td>13 - Max Plank Society</td>
<td>3,506</td>
<td>54,175</td>
<td>15.45</td>
</tr>
<tr>
<td>15 - Georgia Tech</td>
<td>1,581</td>
<td>21,609</td>
<td>13.67</td>
</tr>
<tr>
<td>16 - Sandia National Lab</td>
<td>948</td>
<td>12,929</td>
<td>13.64</td>
</tr>
</tbody>
</table>
Recognition

**Leone Buyse**
Lifetime Achievement Award, National Flute Association

**John Casbarian**
Award for Outstanding Educational Contributions, Texas Society of Architects

**Antonios Mikos**
2010 Distinguished Scientist Award--Isaac Schour Memorial Award, International Association for Dental Research

**Gale Kenny**
American Council of Learned Societies fellow

**Cyrus Mody**
American Council of Learned Societies Collaborative Research Fellowship

**Carlos Jimenez**
Lider Academico 2010, Tecnologico de Monterrey in Queretaro, Mexico

**Jing Zhou**
International Association for Chinese Management Research

**K. Ramesh**
American Accounting Association’s Financial Accounting and Reporting Section
Recognition

Naomi Halas and Jennifer West
Inventors of the Year
by the State Bar of Texas

Peter Hartley
Association for Energy Economics
Senior Fellow Award

Moshe Vardi
American Academy of Arts and Sciences

Jim Tour, Yildiz Bayazitoglu, and Rich Baraniuk: Elected Fellows of the American Association for the Advancement of Science
Recognition

Robert Patten
first fellow of Dickens House Museum

Robert Hoskisson
top 25 researchers in the world in business and economics (Times HE)

Shih-Hui Chen
Fulbright Scholar

George Bennett
Selman Award, Society of Industrial Microbiologists

Lyn Ragsdale
Richard E. Neustadt Award, American Political Science Assoc, for "Vital Statistics on the American Presidency."

Jim Tour
Top 10 chemists in the world (Time HE)
Young faculty recognition

Stephan Link
NSF CAREER

Junghae Suh
NSF CAREER

Lisa Biswal
NSF CAREER

Daniel Cohan
NSF CAREER

Luay Nakhleh
NSF CAREER

Emilia Morosan
NSF CAREER
Recognition

• Princeton Review:
  - 1st in best quality of student life (2010 and 2011)
  - 2nd for ‘lots of race/class interaction
  - 6th for best business school professors

• US News:
  - 17th since 2005, in top 20 since rankings began in 1988

• Times World: 47th in the world

• Kiplinger: 4th best value of private universities

• Wall Street Journal: 19th best MBA for Executives
New Faces
New faces

George McLendon
Provost

Sarah Whiting
Dean of Architecture

Nicolas Shumway
Dean of Humanities

Search for Dean of Engineering
Interim Dean Sidney Burrus

Carol Quillen
VP for International

Search for VP for Investments
Interim VP Ron Long

Rick Greenspan
Director of Athletics

Susan McIntosh
Speaker, Faculty Senate

John Hutchinson
Dean of Undergraduates

Tom Killian
Deputy Speaker, Faculty Senate
New student faces

Undergraduate Student Enrollment Data

<table>
<thead>
<tr>
<th></th>
<th>2006-07</th>
<th>2009-10</th>
<th>2010-11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of applications(^1)</td>
<td>8,776</td>
<td>11,172</td>
<td>12,393</td>
</tr>
<tr>
<td>Number of students admitted</td>
<td>2,080</td>
<td>2,495</td>
<td>2,639</td>
</tr>
<tr>
<td>Admit rate</td>
<td>24%</td>
<td>22%</td>
<td>21%</td>
</tr>
<tr>
<td>Number of freshmen enrolled</td>
<td>715</td>
<td>894</td>
<td>949</td>
</tr>
<tr>
<td>Yield rate</td>
<td>34%</td>
<td>36%</td>
<td>36%</td>
</tr>
</tbody>
</table>

\(^1\) For admissions in the academic year indicated

- Fall 2010: 949 entering freshmen (plus 72 transfers)
- Fall 2011: 950 target (plus 60 transfers)
- Applications up from 10 per matriculant in 2003 to 13 in 2010
Undergraduate enrollment: Entering class by geography

Source: Vice President for Enrollment
Percent of Rice Freshmen Receiving Pell Grants
2006 - 2010

<table>
<thead>
<tr>
<th>Entering Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11%</td>
<td>15%</td>
<td>12%</td>
<td>17%</td>
<td>17%</td>
</tr>
</tbody>
</table>

Source: IPEDS (06-08); The Office of Financial Aid (09-10)
Outstanding freshmen

• David Evans — Patent pending for an anesthetic/analgesic

• James Howe — Sculpture selected for exhibit at Santa Fe Art Museum

• Andrew Kohner — Established 501c(3) “Bikes for Kidz”

• Ruby Gee — Founded “Angels in Disguise” to help underprivileged youth

• Dan Li — 1st place in International Lego Robotics Competition

• Stephanie Tzouanas — Grand Prize Winner of Houston Science and Engineering Fair

• Jeanette Wat — Research Science Institute Scholar, co-authored joint paper with Harvard Medical Scholar professors
Doctoral enrollment: Entering students fall 1999-2010

Source: Office of the Registrar
Student contributions

ZEROW House

"Bio-beer"

Low-cost microscope

Salad spinner centrifuge
Finances
Navigating a steady course in challenging times

• Economic uncertainty
  - Impact on endowment
  - Impact on financial aid
  - Impact on fundraising

• Competition
  - For top faculty and students
  - For resources
  - Rankings

• Political uncertainty
  - Increasing government regulation and audit
  - Federal and state budget deficits
  - End of stimulus funds for research

• Floods, flu, hurricanes, human error
Consolidated budget: sources

- **Revenue:** $489.4M
  - **Endowment Distribution:** 45%
  - **Net tuition:** 17%
  - **Fees & Misc. Revenues:** 1%
  - **Athletics:** 2%
  - **Sponsored Research:** 15%
  - **Annual Fund and Trust Distribution:** 2%
  - **Restricted Gifts and Designated Funds:** 6%
  - **F&A Recovery:** 4%
  - **Auxiliaries:** 8%
Operating Revenues by Fiscal Year (dollars in thousands)

Source: Rice Financial Statements, FY10 is preliminary
Growth of endowment
($ in millions)

Fiscal Years Ended June 30
Endowment returns: Fiscal years 1951-2010
The pie chart illustrates the campaign commitments as of 10/19/10, totaling $667 million. The largest commitment is for other departmental funds at $126.0 million, followed by departmental endowments at $105.0 million, faculty research at $55.0 million, endowed professorships at $75.0 million, endowed scholarships at $70.0 million, buildings & equipment at $176.0 million, and a Rice Annual Fund designation at $25.0 million.
Fundraising: Cash received
By fiscal year ($ in millions)

- Brown Challenge + 3 "mini-campaigns"
- Rice: The Next Century Campaign
- The Centennial Campaign
Rice Annual Fund: Goal
$8.2 million by FY13
Net undergraduate tuition revenue: 8 percent CAGR since FY05
Sponsored research revenues

Up 12.2 percent to $98.5 million in FY10, ($6.7 million in stimulus funds)
Research computing infrastructure: $13.6 million

- **IBM**: $9 million for biomedical supercomputing including the company's new POWER7 microprocessors.

- **NSF**: $3 million for a powerful new high-performance computer system that will feature Rice's first 3-D visualization studio.

- **NIH**: $1.6 million for high performance computing infrastructure for computational biology.
Upward trend in sponsored project awards

Over 100 percent increase in new awards since 2003
Surpassed $100 million in federal awards for first time

* Includes $27 million ARRA grants and $7.6 million IBM’s BlueBioU
<table>
<thead>
<tr>
<th>Recently Completed</th>
<th>Complete in January 2011</th>
<th>Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Colleges Renovation (New wings at Baker and Will Rice)</td>
<td>East Servery</td>
<td>Glasscock School of Continuing Studies</td>
</tr>
<tr>
<td>Brockman Hall for Physics</td>
<td></td>
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</table>

V2C: $800 million in board-approved projects: on time and on budget
Future
• Deans Council task force looking at introductory classes in six departments: chemistry, physics, mathematics, biology, economics and psychology
  - Lab classes

• Facilities: studying optimal usage of space

• Rice Counseling Center: expanding services and remodeling to accommodate more staff

• International students: dealing with special needs of larger contingent
Research Rice 2010

• Admission program for 16 stellar, research-oriented prospective students
  - USA Biology Olympiad team members
  - MIT Research Science Institute participants
  - 1500+ SAT critical reading-math scores

• An all-out recruitment effort, supported by faculty leaders

Chris Munoz  
K. Jane Grande-Allen

Antonios Mikos  
Yousif Shamoo
Rice University:

- 250 faculty, staff and graduate students primarily in Bioengineering, Chemistry and Biochemistry

Signed leases:

- Texas Children’s Hospital
- Cancer Prevention and Research Institute of Texas (CPRIT)
- Baylor College of Medicine, NSBRI
- Clinical Trials Network of Texas (CT NeT)

Discussions underway with

- TX Heart Institute
- Others
Vision for the Second Century: Three strategic initiatives

- Bioscience and human health
- Energy and the environment
- International strategies
“Rice is in a state of transition. It is a transition from good to better. Facing extraordinary opportunity, the institution is about to become braver, stronger, sounder and more beautiful. … And at Rice the good life will continue to be lived, but better.”

_Edgar Odell Lovett_

_March 4, 1946_
Let’s Celebrate Rice!
Centennial Celebration
Oct. 10-14, 2012