



Washington
University
in St. Louis



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Research Universities in Partnership for Economic Development

Mark S. Wrighton, Chancellor

**Mizzou Corporate Roundtable
November 25, 2008**

“Ecosystem” for Innovation

- **Universities**
- **Corporations, mature and new**
- **Research institutes, government labs**
- **Entrepreneurs and business leaders**
- **Incubators**
- **Venture Capital**

Research Universities

- **People**
 - Faculty
 - Students
- **Knowledge Creation**
- **Infrastructure**
 - Facilities and equipment
 - Research enterprise

Special Regional Opportunities

- **Biomedical research**
 - Large programs at WU, SLU, and Mizzou
 - Largest area of federal investment
- **Plant science**
 - Research strengths in Mosanto, Mizzou, WU, and Danforth Center
 - Center of agricultural productivity



International Center for Advanced Renewable Energy and Sustainability

- **Director:** Professor Himadri Pakrasi
- **Purpose:** Promote collaborative research within WU and with regional and international partners in areas related to renewable energy and sustainability
- **Examples Areas of Research:** bioenergy, coal, design, materials, policy, environmental health, photovoltaics, air/water quality
- **Initial Thrusts:** Biofuels, coal, and international collaborations via McDonnell International Scholars Academy

Energy: Regional Strengths

- **Coal**

- Middle of large coal reserves
- Two of the largest coal companies
- Improve combustion efficiency
- Reduce pollution
- Mitigate carbon dioxide accumulation

- **Biofuels**

- Center of agricultural production
- Large density of plant science PhD's
- Strongest agricultural biotechnology company
- University of Missouri and Danforth Center



New Resources

- **~\$70 Million for New Building for the Department of Energy, Environmental, and Chemical Engineering**
- **\$2.5 Million over five years for support of the International Center for Advanced Renewable Energy and Sustainability**
- **\$12M to endow six new professorships in key areas of research of importance to the Center + ~\$2.5M in start up costs**
- **\$500,000 to support development of international projects with the McDonnell Academy partners**
- **>\$500,000 over five years to support the Sustainability Officer**

Energy, Environmental and Chemical Engineering



South Elevation of Whitaker & Brauer Hall



South Elevation of Brauer Hall



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