Research Universities in Partnership for Economic Development

Mark S. Wrighton, Chancellor

Mizzou Corporate Roundtable
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“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
Washington University in St. Louis