

Annual Research Report

FY 2008

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Vice President for Research
January 22, 2009



OVPR Imperatives

- **Strategic Leadership**
- **Positioning U-M to Thrive and Lead**
- **Give Faculty the Tools to Succeed,
and Recognition When They Do**

The Research Times

The Front Page

Thursday, January 22, 2009

"Some of the research news that's fit to mention"

Research volume rises to new records

Industry partnerships expand

Promoting faculty excellence takes center stage

**Research Cyber-infrastructure transformation
gets going**

Energy research boost for campus, economy

Research Spending

- Total reaches \$876M  6.4%
- Federal spending at \$611M  2.7%

Med. School Funding Rank Rises to 7th

- Industry Spending at \$43M  11%

All Time High

- ✓ FY'09: More increases likely
- ✓ Research portfolio = stability in turbulent times
- ✓ Major opportunities: energy and sustainability

Strengthening Industry Partnerships

- **13 U-M spin-offs in FY08**
(among highest in US)
- **Licensing income: \$25M**
- **U-M leads statewide university effort to jump start economy**



***Funding from C. S. Mott Foundation
and the New Economy Initiative***

Changing the Culture

“Remarkable transformation” underway.

**“U-M is now very much a leader
in industry outreach.”**

-- Edward Krause, Ford Motor Co.

- **Recognizing and rewarding faculty for industry interactions**
 - **Example:**
Distinguished University Innovator Award

Business Engagement Center Opens



- Gateway for industry
- Collaboration between OVPR and Development
- Presence sends strong message

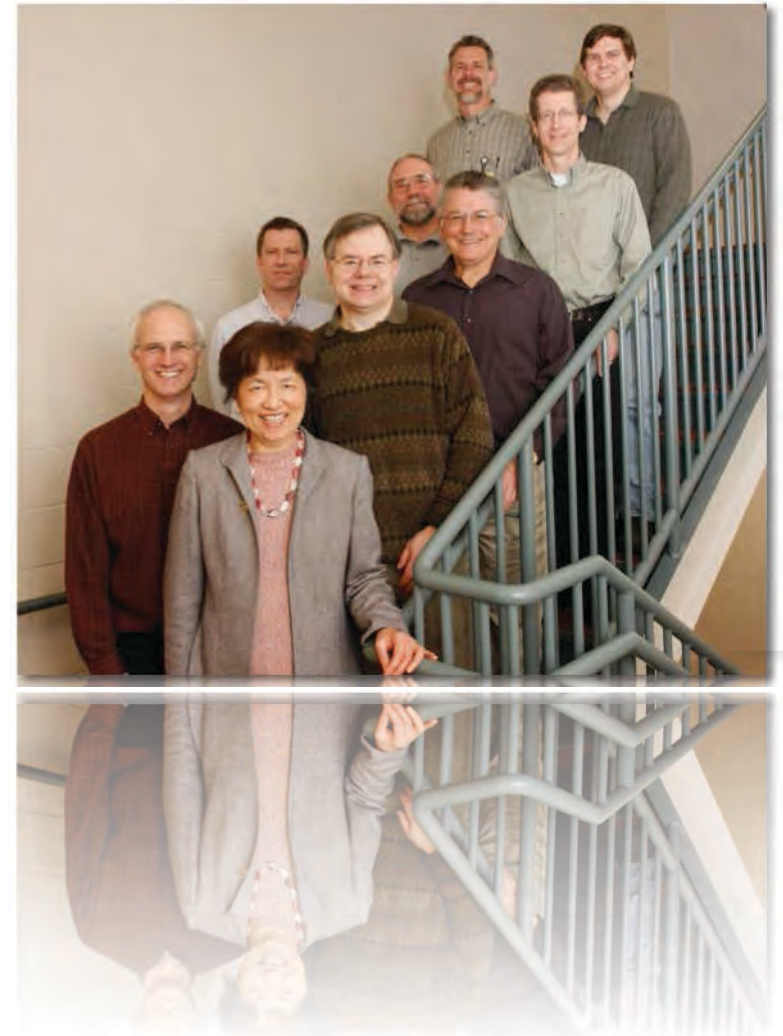
Reputation of faculty strongly influences rankings

UNIVERSITY	2006 R&D EXPENDITURES	NAS MEMBERS	IOM MEMBERS	NAE MEMBERS
U MICHIGAN	\$800M	20	35	22
STANFORD	\$679M	132	53	85
UC BERKELEY	\$546M	131	10	75
MIT	\$601M	109	28	109

- **OVPR working with units to *significantly* increase recognition**

Faculty Excellence

- **New Faculty Hires in Strategic Areas**
 - **Former Pfizer scientists become core of new U-M Center for Drug Design**



Faculty Excellence

- **Research faculty career paths redesigned**
 - **Consulted with all 19 schools and colleges, and faculty groups**
 - **Establishes equity, path for advancement, clarity, enhances university reputation**
 - **Process a “model of collegiality” between central administration and faculty**
-- *David Potter, SACUA Chair.*

Computation in Research

- **Common thread running through all disciplines**
- **Essential to research mission**
- **Coordinating with MAIS**
- **Goals:**
 - **Maximize current resources**
 - **Expand capabilities**
 - **Efficient and cost effective**
- **New AVPR: Dan Atkins**

ENERGY

Building on Strengths, Positioning for New Opportunities

- **Opportunities abound**
 - **Plug-in hybrid electric vehicles (PHEV)**
 - **New Generation Batteries**
 - **DTE Green Energy Prize**
- **Clear priority of state and federal government**
- **Ideal for partnering with all sectors**
- **Recruiting faculty to fill gaps**

Impacting Policy

- New administration sees gains to economy and environment in building energy infrastructure
- U-M helping to set national agenda
 - New mechanisms to support energy independence in the works



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