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**

MICHIGAN INITIATIVE
FOR INNOVATION & ENTREPRENEURSHIP
Foundation for a New 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

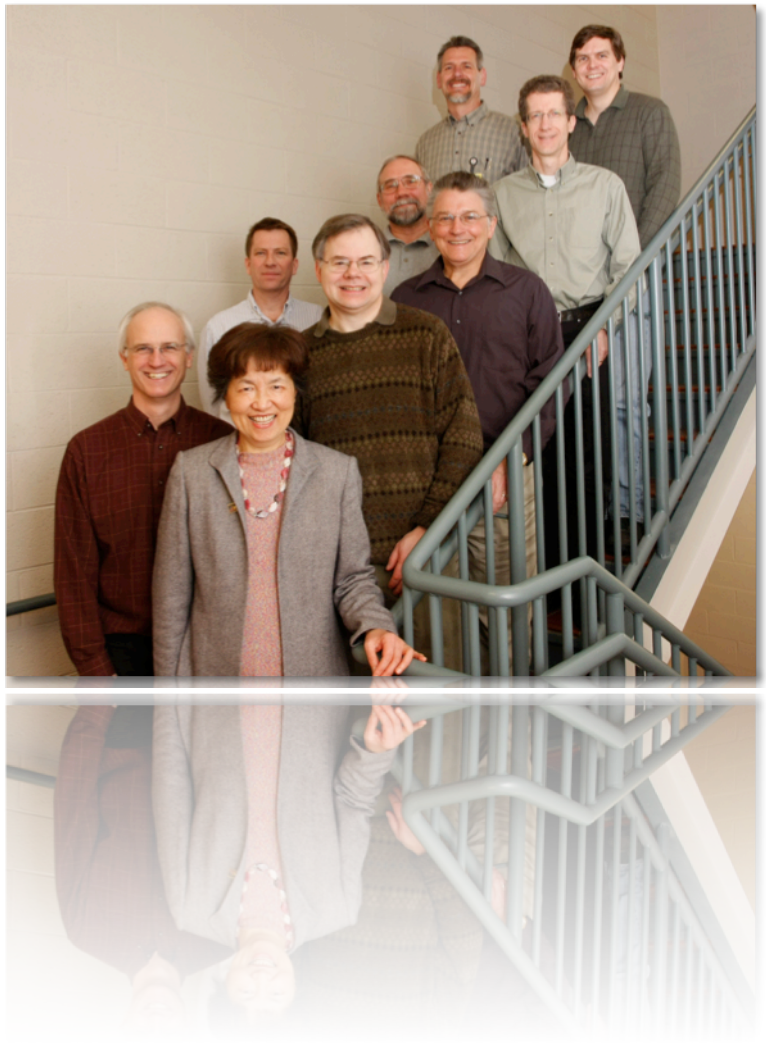
Reputation of faculty strongly influences rankings

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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