ONE UNIVERSITY: MANY CONNECTIONS

The Current State of Research at Ohio State

Caroline Whitacre, Vice President for Research
November 6, 2013
LEADING DISCOVERY AND INNOVATION
Bernadette Melnyk

Elected to the Institute of Medicine
Joseph Heremans

Elected to the National Academy of Engineering
18 distinguished scholars

Elected to the American Association for the Advancement of Science
5 junior faculty

Received CAREER awards from the National Science Foundation
Recognizing excellence in teaching, service and scholarship
Ohio State named the nation’s top-producing Fulbright Scholar institution

14 faculty Fulbright scholars

Carol Boram-Hays  Ann O’Connell
Philip Brown  Stephen Petrill
Alcira Dueñas  Anil Pradhan
Lisle Gibbs  Ana Elena Puga
Parwinder Grewal  Eric Seiber
Kenneth Kolson  Macdonald Wick
Bradford S. McGwire  Linn Van Woerkom
16 student Fulbright scholars

Ohio State ranked 14\textsuperscript{th} in producing U.S. Fulbright students
Alexander Chaitoff

2013 Marshall Scholar
Jonathan Timcheck

2013 Barry M. Goldwater Scholar
Henry Peller

2013 Morris K. Udall and Stewart L. Udall Foundation Scholar
Pushing the frontiers of discovery even as the nation and the world encounter significant challenges
Grand Challenges of the 21st Century

• Spread of pathogens, infectious disease
• Cardiovascular disease in developing countries
• Displacement by climate related disasters
• Extreme poverty and social inequity
• Demographic shifts
SOLUTIONS WILL REQUIRE CONNECTIONS
Federal R&D in the Budget and the Economy
Outlays as share of total, 1962 - 2014

Source: Budget of the United States Government, FY 2014. FY 2013 data do not reflect sequestration. FY 2014 is the President's request.
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In 2013

NIH reduced by 5.5%

NSF reduced by 2.1%

DOE reduced by 5.0%
SITES FOR EXPENDITURES FOR RESEARCH
GRANTS FROM 8 UNIVERSITIES

Source: Committee on Institutional Cooperation (CIC) Research Expenditures Report
7.2% REDUCTION IN FEDERAL FUNDS to Ohio State
CUTTING BASIC SCIENCE FUNDING WILL BE DETRIMENTAL TO OUR FUTURE
U.S. Government Shutdown

October

Debt Ceiling Deadline
“We will have achieved eminence when those who need to address an important issue look first to Ohio State for solutions.”

– Interim President Joseph Alutto
THE OHIO STATE UNIVERSITY

OFFICE OF RESEARCH

HOW DO WE FOCUS THE EYES OF THE WORLD ON OHIO STATE?
Connecting to alternative funding sources

- Private foundations
- Philanthropy
- Crowd funding
Capitalizing on Ohio State’s strengths

- 14 different colleges
- 7 health sciences colleges and a college of agriculture in one location

Astounding discoveries every day, creating economic opportunities and solving global problems
Innovative Connections

- Across disciplines, institutions and the globe
- With industry and our communities
- Via databases and facilities
- Through student engagement
MAKING CONNECTIONS IS OUR ROADMAP FOR BECOMING THE “GO TO” INSTITUTION
Making connections across disciplines and colleges

Discovery Themes Initiative

- Energy & Environment
- Health & Wellness
- Food Production & Security
DATA ANALYTICS IS KEY TO FINDING TRANSFORMATIONAL SOLUTIONS
Making connections through faculty expertise databases

- Research in View
- InfoEd SPIN
- SciVal Experts
- Academic Analytics
Making connections through investments in facilities
Vicki Wysocki

Campus Chemical Instrument Center (CCIC)

Rafael Brüschweiler
David McComb

Center for Electron Microscopy and Analysis (CEMAS)
MAKING CONNECTIONS ACROSS THE U.S.
Umit Ozguner

Crash Imminent
Safety University Transportation Center
Rebecca Jackson

Center for Clinical and Translational Science (CCTS)
MAKING CONNECTIONS WITH INDUSTRY
Daniel Kramer
Office of Research Industry Liaison Office
MAKING CONNECTIONS GLOBALLY
Making connections with the broader community

- Agricultural and extension programs
- Continuing education
- Networks of diagnostic, educational and treatment services
- Prevention and intervention programs
- Arts and cultural programs
Roman Holowinsky

STEAM Factory
Sharon Davies

Kirwan Institute for the Study of Race and Ethnicity

The Kirwan Institute for Study of Race and Ethnicity Presents the premiere of

"A Reading of the Letter from Birmingham Jail"

Sunday, November 3, 2013 4:30pm
King Arts Complex, Columbus, Ohio
Making connections through student engagement
Wayne Carlson

Ohio Means Internships and Co-ops Program
Partners

• Columbus State Community College
• North Central State College
• More than 80 private-sector employers
2013
Innovators of the Year
Recognizing research creativity and entrepreneurship
Student Innovator of the Year Nominees

- Georgios Trichopoulos
- Kinshuk Mitra
Student Innovator of the Year

Kinshuk Mitra
Early Career Innovator of the Year Nominees

- Monica Giusti
- Kubilay Sertel
- Ronald Xu
Early Career Innovator of the Year

Monica Giusti
Innovator of the Year Nominees

- Prabir Dutta
- Hesham El Gamal
- Casey Hoy
- Zhong-Lin Lu
- Yael Vodovotz
Join us in congratulating the winners and nominees at a reception across the hall in Woody’s Tavern.