

2015-2016 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Policy and Global Affairs Division, National Research Council (2010 – 2017) (see chart of responsibilities in Appendix)

Member, National Research Council Governing Board (2010 - 2017)

Chair, Board of Directors; DOE CASL Energy Innovation Hub (Consortium for Advanced Simulation of Light Water Reactors) (2014 – 2016)

Member, National Academies Commission on the Future of the American Research University (2010 – 2012 Report; 2012 – 2017; chair of follow-on activities for the next several years)

Co-Director (with Luc Weber of U. Geneva), Glion Colloquium (a global consortium of university presidents and corporate leaders meeting every two years in a “Davos-like” workshop in Glion-above-Montreux, Switzerland); preparing for Glion XI scheduled for June, 2017.

Nonresident Senior Scholar, Brookings Institution (2010 - present)

MAJOR AWARDS AND HONORS

Vannevar Bush Award, National Science Board, May 2015 (The nation’s top honor for lifetime achievement in science policy: "For articulating and demonstrating a clear vision of how the interplay of science, engineering research and education, and public policy is necessary to enhance the welfare of our Nation and its people".)

Ralph Coats Roe Medal, June 2016, American Society of Mechanical Engineering (“for outstanding public service as a professor and university administrator, and for efforts to grow underrepresented groups in our educational institutions”)

UNIVERSITY ADVISORY BOARDS

Michigan State University (President’s FRIB Advisory Board)
California Institute of Technology (Engineering Advisory Board)
University of California, Davis (Chancellor’s Advisory Board)
Indiana University (Chair, Strategy for Creating IU Engineering)

UNIVERSITY SERVICE ACTIVITIES

Member, Advisory Council, Science, Technology, and Public Policy Program,
Gerald R. Ford School of Public Policy

College of Engineering Committees:

- i) to elect more faculty to National Academy of Engineering
- ii) to place faculty in more positions of national leadership
- iii) to create and sustain a College History and Traditions effort

INSTRUCTIONAL ACTIVITIES

Public Policy 750, The Past, Present, and Future of the American Research
University (Fall Term, 2015)

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy
(Winter Term, 2016)

Public Policy 475 and 750, The University of Michigan, Yesterday, Today, and
Tomorrow, a new Bicentennial Course (Fall 2016, 2017, and 2018)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Chair, NRC Policy and Global Affairs Division, National Academies

Chair, Phase III of National Academies Research University Project

Advisory Committee: Science, Technology, and Public Policy Program

Co-Director, Glion Colloquium for 2017

NEW PROJECTS FOR THE YEAR AHEAD

Analysis of new research paradigms such as innovation hubs (DOE, NRC)
and exascale computing (CASL)

Effort to encourage and appoint more UM faculty to national studies and boards

Broadening participation in Science, Technology, and Public Policy program

More information concerning current activities can be found on the Millennium Project
website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Books

- James J. Duderstadt, *The Third Century: A Roadmap to the University of Michigan's Future*, Final Edition (Ann Arbor, MI: Millennium Project, 2016)
- James Duderstadt, *Tilting at Windmills: Battles Won, Lost, or Long Since Forgotten*, Case Studies in Science, Technology, and Public Policy (Ann Arbor, MI: Millennium Project, 2015)
- Luc Weber and James Duderstadt, *Balancing External Responsibilities with University Priorities and Constraints*, X Glion Colloquium (Paris: *Economica*: 2016)
- James Duderstadt and Anne Duderstadt, *Charting the Course of the University of Michigan over Half of a Century* (Ann Arbor, MI: Millennium Project, 2016)
- James Duderstadt, *A 50 Year History of Social Diversity at the University of Michigan* (Ann Arbor, MI: Millennium Project, 2016)
- Anne Duderstadt, *A History of the Presidents House* (Ann Arbor, MI: Millennium Project 2016)
- Anne Duderstadt, *A History of the Inglis Highlands Estate* (Ann Arbor, MI: Millennium Project 2016)

Papers

- James J. Duderstadt, "Adapting the University to the Constraints, Responsibilities, and Opportunities of a New Age", in *Balancing External Responsibilities with University Priorities and Constraints*, X Glion Colloquium (Paris: *Economica*: 2015)

iBook-updated Versions of:

- The Third Century: A Roadmap to Michigan's Future* (Final Version)
The Presidents House (Anne Duderstadt)
The Inglis Highlands Estate (Anne Duderstadt)

Ongoing Book Projects:

- Truth and Light: The Universities of California and Michigan*, with John King
Universities of the World, JJD & AMD (use as course notes in PP 475-750)
Case Studies in Strategic Roadmapping, JJD (use as course notes in PP 754)

Principles of Engineering, exploring the possibility of a new edition with
Co-author George Springer at Stanford

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty History Project
(Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

University of Michigan Faculty Memoir Project
(Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/>

The University of Michigan: 1817 to 2017 Web Portal
(Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Ann Arbor Historical Maps Project
<http://umhistory.org/history/town-gown/>

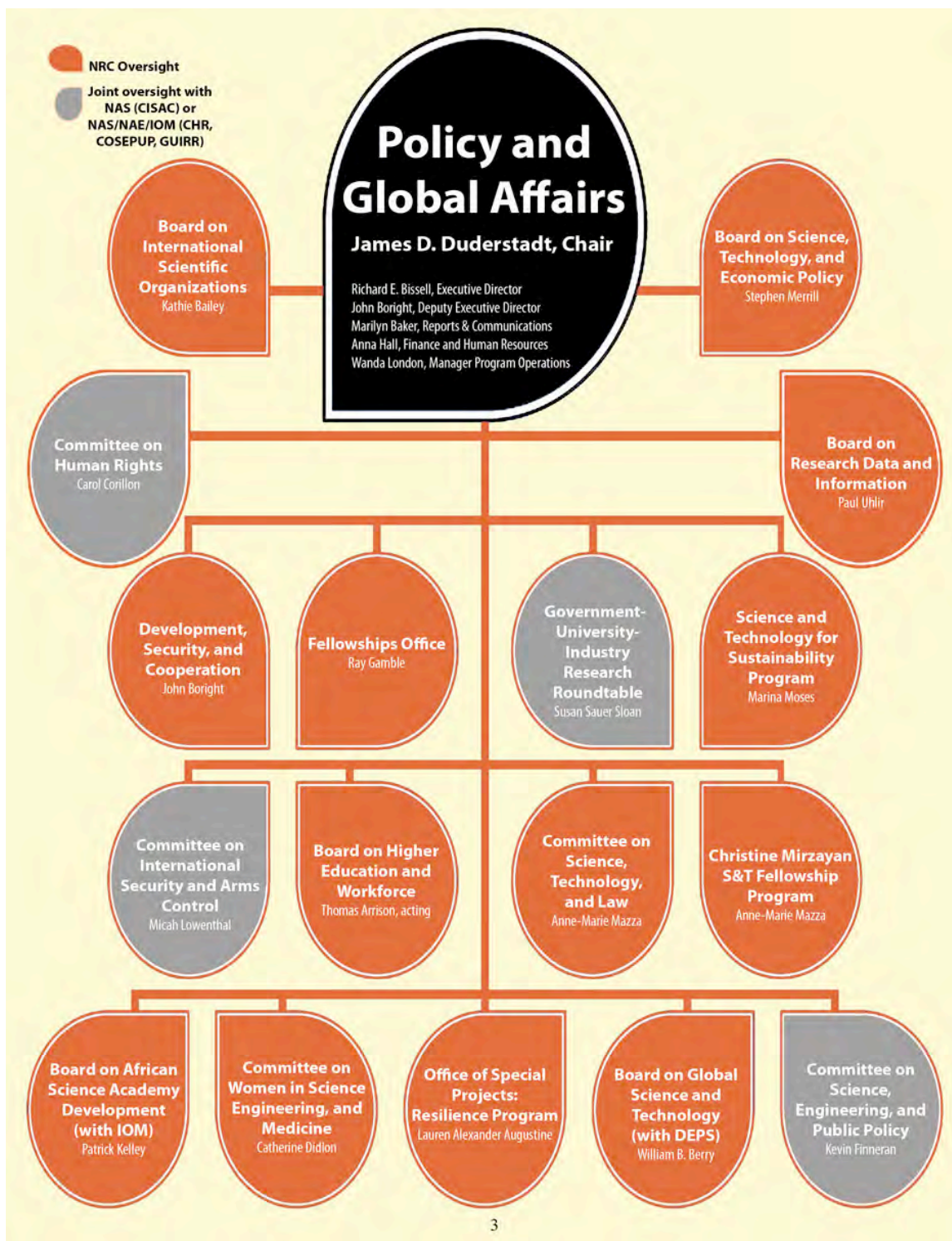
LECTURES, ADDRESSES, AND PRESENTATIONS, 2014-2015

October 15-16	Policy and Global Affairs Committee Meeting The National Academies Washington, DC
October 28	CASL Board of Directors Meeting
November 3-4	National Research Council Governing Board Meeting The National Academies Washington, DC
November 11	College of Engineering Leadership Workshop – UM
November 13 <i>via videoconference</i>	Invited Lecture with Drexel University “College Football and Higher Education”
December 7	Michigan State University President’s FRIB Project Advisory Committee Meeting E. Lansing, MI
December 10 <i>via videoconference</i>	Presentation to University of Central Florida <i>Collective Impact Strategic Planning Innovators Conversation</i>
January 15 <i>via teleconference</i>	University of California, Davis Board of Advisors Meeting Davis, CA
January 21	Invited Lecture in Public Policy 481 – UM * <i>NRC Study on the Future of the American Research University</i>
February 8-9	National Research Council Governing Board Meeting The National Academies Irvine, CA
February 17	Invited Lecture in Social Work 815 UM
March 9-10	Policy and Global Affairs Committee Meeting The National Academies Washington, DC
March 14-15	CASL Board of Directors Meeting Washington, DC Maize and Blue on Broadway Tour New York, New York
May 11-12 <i>fji only</i>	National Research Council Governing Board Meeting The National Academies Washington, DC
May 24-25	National Academy of Engineering Regional Meeting UM Campus

June 5-6	ASME Annual Meeting * Ralph Coats Roe Lecture Louisville, KY
June 17	University of California Davis Board of Advisory Meeting San Francisco, CA
July 14	CASL Board of Directors Meeting Albuquerque, NM
August 5-6	National Research Council Governing Board Meeting The National Academies Woods Hole, MA

Appendix

Role as Chair of Division of Policy and Global Affairs
National Academies of Science, Engineering, and Medicine



2014-2015 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Policy and Global Affairs Division, National Research Council (2010 – 2017)

Member, National Research Council Governing Board (2010 - 2017)

Nonresident Senior Scholar, Brookings Institution (2010 - present)

Chair, Board of Directors; DOE CASL Energy Innovation Hub (Consortium for Advanced Simulation of Light Water Reactors) (2014 – present)

Member, National Academies Commission on the Future of the American Research University (2010 – 2012 Report; 2012 – 2017; chair of follow-on activities for the next several years)

Co-Director (with Luc Weber of U. Geneva), Glion Colloquium (a global consortium of university presidents and corporate leaders meeting every two years in a “Davos-like” workshop in Glion-above-Montreux, Switzerland); preparing for Glion X scheduled for June, 2015.

OTHER NATIONAL ACTIVITIES

Member, American Academy of Arts and Sciences Committee on New Forms of National Science Policy (2013-2015)

Member, President’s Project Advisory Committee, Facility for Rare Isotope Beams, Michigan State University and Department of Energy (2010 – present)

UNIVERSITY ADVISORY BOARDS

California Institute of Technology
Franklin Olin College of Engineering
University of California, Davis
State University of New York Research Foundation
Indiana University

UNIVERSITY SERVICE ACTIVITIES

Member, Advisory Council, Science, Technology, and Public Policy Program, Gerald R. Ford School of Public Policy

INSTRUCTIONAL ACTIVITIES

Public Policy 750, The Past, Present, and Future of the American Research University (Fall Term, 2015)

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy (Winter Term, 2015)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Chair, NRC Policy and Global Affairs Division, National Academies

Chair, Board of Directors, DOE CASL Energy Innovation Hub

Chair, Phase III of National Academies Research University Project

Advisory Committee, Science, Technology, and Public Policy Program

University of Michigan History Projects (with Anne Duderstadt)

Faculty History Database:

<http://um2017.org/faculty-history/>

Faculty Memoir Website:

<http://www.lib.umich.edu/faculty-memoir/>

University History web portal:

http://um2017.org/2017_Website/Entry_Page.html

Digital Historical Maps Project

(Millennium Project)

<http://specular.dmc.dc.umich.edu/map/>

NEW PROJECTS FOR THE YEAR AHEAD

Analysis of new research paradigms such as innovation hubs (DOE, NRC)

Effort to encourage and appoint more UM faculty to national studies and boards

More information concerning current activities can be found on the Millennium Project website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Books

James J. Duderstadt, *The Third Century: A Roadmap to the University of Michigan's Future*, 3rd Edition (Ann Arbor, MI: Millennium Project, 2014)

James J. Duderstadt and Anne Duderstadt, *For the Love of Michigan: A Half Century of Serving the University of Michigan* (Ann, Arbor, MI: Millennium Project, 2014)

James Duderstadt, *Tilting at Windmills: Battles Won, Lost, or Long Since Forgotten, Case Studies in Science, Technology, and Public Policy* (Ann Arbor, MI: Millennium Project, 2015)

Luc Weber and James Duderstadt, *Balancing External Responsibilities with University Priorities and Constraints*, X Glion Colloquium (Paris: *Economica*: 2015)

Papers

James J. Duderstadt, "Adapting the University to the Constraints, Responsibilities, and Opportunities of a New Age", in *Balancing External Responsibilities with University Priorities and Constraints*, X Glion Colloquium (Paris: *Economica*: 2015)

iBook-updated Versions of:

The Third Century: A Roadmap to Michigan's Future (Update)
Universities of the World: A Pictorial Essay (with A. Duderstadt)
The President's House (Anne Duderstadt)
The Inglis House Estate (Anne Duderstadt)

Ongoing Book Projects:

Charting the Course: A Chronology of the University of Michigan's Activities over the Past 50 Years

Truth and Light: The Universities of California and Michigan, with John King

The Impact of Cyberinfrastructure on Discovery, Learning, and Innovation, with Daniel Atkins and Gary Olson

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty History Project
(Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

University of Michigan Faculty Memoir Project

(Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/>

The University of Michigan: 1817 to 2017 Web Portal
(Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Ann Arbor Historical Maps Project
<http://umhistory.org/history/town-gown/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2014-2015

- September 3 Rotary Club of Ann Arbor *
"The Future of the American Research University"
- September 12 Guest Lecture in MO 672, "Leading Non-Profit Organizations – UM" *
- September 16 American Academy of Arts and Sciences *
Report Release Event
Washington, DC
- September 29-30 CASL Board of Directors Meeting
Washington, DC
- October 2 Guest Lecture in UC 254 "Predicting the Future" – UM *
"The Third Century: A Roadmap to the University of Michigan's Future"
- October 9-11 Victors of Michigan/Library Campaign Council – UM
- October 10-11 Depression Center National Advisory Board Meeting - UM
- October 13 Video interview for University of Illinois Leadership Conference *
National Center for Professional and Research Ethics
"Future of the American Research University"
- October 16-17 Policy and Global Affairs Committee Meeting
The National Academies
Washington, DC
- October 17 Board on Higher Education and the Workforce Membership Meeting
Policy and Global Affairs
The National Academies
Washington, DC
- October 22 Guest Lecture in Org. Studies 201 (w/John King) – UM *
"Leadership and Collaboration"
- October 24 Board on Agriculture and Natural Resources Webex Meeting *
National Research Council
*"Opportunities to Connect with the NRC: Global Sustainability,
University Research"*
- November 4-5 National Research Council Governing Board Meeting
The National Academies
Washington, DC
- November 18 Michigan State University
FRIB President's Project Advisory Committee
East Lansing, MI
- November 25 University Systems of Maryland Board of Regents Retreat *
Baltimore, MD
"National Eminence in Research and Economic Prosperity"

- January 9 UC Davis Board of Advisors Meeting
Davis, CA – *via teleconference*
- January 13 Public Policy 754 – 1st class
“Introduction to Science, Technology, and Public Policy”
- February 3 Public Policy 754 – Lecture
“The National Research Council and the National Academies”
- February 18-19 CASL Board of Directors Meeting
Washington, DC
- February 26-27 Indiana University Blue Ribbon Committee *
Bloomington, IN
- March 24 Public Policy 754 – Lecture
“R&D Enterprise – Gathering Storm”
- March 26-27 Policy and Global Affairs Committee Meeting
The National Academies
Washington, DC
- March 28 Office of Development – UM *
Celebrating Donors and Scholars
Welcome Remarks
- March 30 Jerome B. Wiesner Symposium – UM *
Rackham Graduate School
“Redefining American Research Universities”
- April 1 Guest Lecture in UG 232 (w/T. McDonald) – UM *
UM History
- April 20 Economic Dinner Group – Panel Presentation *
Ann Arbor, MI
“Intercollegiate Athletics”
- May 5 Vannevar Bush Award Ceremony *
National Science Board
Washington, DC
- May 6 National Science Board Meeting *
Washington, DC
- May 6-7 National Research Council Governing Board Meeting
The National Academies
Washington, DC
- May 8 Retirement Reception for Dan Atkins – UM *
- May 12 WLBY Radio Interview with Larry Eiler *
ReNEW: Michigan Educational Forum
College of Engineering Leadership Seminar
- May 13 Retirement Reception for James Jackson – UM *

- May 16 Festschrift for Dr. Scott Fogler – UM *
- May 18 International Cooperative Group on
Environmentally Assisted Cracking Conference (w/ Gary Was) – UM
Plenary Address
- May 21 Michigan State University
President's Project Advisory Committee
E. Lansing, MI
- May 27 ReNew: Michigan Educational Forum *
Ann Arbor Downtown Public Library
- June 15-21 Glion Colloquium *
Glion, Switzerland
*Adapting the University to the Constraints, Responsibilities,
and Opportunities of a New Age*
- July 9 CASL Symposium *
Asheville, NC
CASL: A New Paradigm for Science: The Endless Frontier
- July 9 CASL Board of Directors Meeting
Asheville, NC
- July 31-August 1 National Research Council Governing Board Meeting
The National Academies
Woods Hole, MA
- August 5-21 Norway

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Chair, Policy and Global Affairs Division, National Research Council (2010 – 2017)

Member, National Research Council Governing Board (2010 - 2017)

Nonresident Senior Scholar, Brookings Institution (2010 - present)

Member, National Academies Commission on the Future of the American Research University (2010 – 2012 Report; 2012 – 2017; chair of follow-on activities for the next several years)

Co-Director (with Luc Weber of U. Geneva), Glion Colloquium (a global consortium of university presidents and corporate leaders meeting every two years in a “Davos-like” workshop in Glion-above-Montreux, Switzerland); preparing for Glion X scheduled for June, 2015.

Member, Board of Directors; chair, Strategy Committee; DOE CASL Energy Innovation Hub (Consortium for Advanced Simulation of Light Water Reactors) (2013 – present)

Member, Advisory Committee, National Center for (Nuclear Nonproliferation) Verification Technology

OTHER NATIONAL ACTIVITIES

Member, American Academy of Arts and Sciences Committee on New Forms of National Science Policy (2013-2015)

Member, President’s Project Advisory Committee, Facility for Rare Isotope Beams, Michigan State University and Department of Energy (2010 – present) (2011 – present)

Member, Educate to Innovate Study, National Academic of Engineering (2013 – present)

UNIVERSITY ADVISORY BOARDS

California Institute of Technology
Franklin Olin College of Engineering
University of California, Davis
University of Illinois, Chicago

University of Missouri KC Foundation
 State University of New York Research Foundation

UNIVERSITY SERVICE ACTIVITIES

Member, Advisory Council, Science, Technology, and Public Policy Program,
 Gerald R. Ford School of Public Policy

Member, IT Council

Member, Depression Center National Advisory Board

INSTRUCTIONAL ACTIVITIES

Public Policy 750, The Past, Present, and Future of the American Research
 University (Fall Term, 2013)

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy
 (Winter Term, 2013)

EXTERNALLY FUNDED ACTIVITIES

“Glion IX Colloquium on Global Sustainability”, National Science Foundation
 (\$70,000) (JJD PI) (2012 – 2013)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Chair, NRC Policy and Global Affairs Division, National Academies

Chair, Phase III of National Academies Research University Project

Advisory Committee, Science, Technology, and Public Policy Program

University of Michigan History Projects (with Anne Duderstadt)

Faculty History Database:

<http://um2017.org/faculty-history/>

Faculty Memoir Website:

<http://www.lib.umich.edu/faculty-memoir/>

University History web portal:

http://um2017.org/2017_Website/Entry_Page.html

Digital Historical Maps Project

(Millennium Project)

<http://specular.dmc.dc.umich.edu/map/>

Other projects currently under development:

Staff Memorials and Memories Website

Alumni Reflections Website

NEW PROJECTS FOR THE YEAR AHEAD

Book Projects:

The Impact of Cyberinfrastructure on Discovery, Learning, and Innovation,
with Daniel Atkins and Gary Olson

Tilting at Windmills: Battles Won, Lost, and Long Since Forgotten, a personal
essay of studies and committees chaired

A University for the 21st Century, 2nd Edition, University of Michigan Press

Principles of Engineering, with Glenn Knoll and George Springer, New
edition with translation into an iBook text

*Charting the Course: A Chronology of the University of Michigan's Activities
over the Past 50 Years*

The Third Century: A Roadmap to the University of Michigan's Future, in
revision

For the Love of Michigan: A Half-Century of Life with the Michigan Family
(with Anne Duderstadt)

iBook-updated Versions of:

The Third Century: A Roadmap to Michigan's Future
Universities of the World: A Pictorial Essay (with A. Duderstadt)
The President's House (Anne Duderstadt)
The Inglis House Estate (Anne Duderstadt)

More information concerning current activities can be found on the Millennium Project
website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Books

Luc E. Weber, James J. Duderstadt (ed.), *Preparing Universities for an Era of Change, Glion IX Colloquium* (Paris: Economica 2014)

Reports

Chad Holliday, James J. Duderstadt, et. al., *Research Universities and the Future of America: Ten Breakthrough Actions Vital to the Nation's Prosperity and Security*, National Convocation (National Academies: Washington, 2013)
http://sites.nationalacademies.org/PGA/bhew/researchuniversities/PGA_084681

Papers and Chapters

James J. Duderstadt, "Research Universities and the Future of America: A Study by the U.S. National Academies", Glion IX Colloquium (Paris: Economica, 2014)

James J. Duderstadt, "The Impact of Technology on Discovery and Learning", Glion IX Colloquium (Paris: Economica, 2014)

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty Memoir Project
 (Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/>

University of Michigan Faculty History Project
 (Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

The University of Michigan: 1817 to 2017 Website Home Page
 (Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Digital Historical Maps Project
 (Millennium Project)
<http://specular.dmc.dc.umich.edu/map/>

Currently under development:

Staff Memorials and Memories Website
 Alumni Reflections Website
 Department-level WordPress Wiki websites

LECTURES, ADDRESSES, AND PRESENTATIONS, 2011-2012

2013-14 Travel/Talk Calendar

- September 17 Guest Lecture in UC 254 "Predicting the Future" – UM
The Future of Higher Education
- September 19-20 TIME Summit in Higher Education w/ Carnegie Foundation
One on Two Interview with Judy Woodruff –
"NRC Report: Research Universities and the Future of America"
New York, NY
- September 26-27 CASL Board of Directors Meeting
Washington, D.C.
- October 2 Presentation at St. Mary's Parish
History of the University
- October 9-10 National Research Council
Research Universities and the Future of America: A National
Convocation (keynote address)
Washington, D.C.
- October 14 Michigan Energy Institute Symposium and Dedication - UM
History of the Michigan Memorial Phoenix Project
- October 17-18 NRC Policy and Global Affairs Meeting (chair)
Washington, DC
- November 5-6 NRC Governing Board Meeting
Washington, DC
- November 13 Guest Lecture in Honors Seminar 252 (w/ Steve Ragsdale) – UM
"Creativity in the Sciences and the Arts"
- January 9 Presentation to UM Osher Foundation Lifelong Learning Institute
Ann Arbor, MI
A Vision of Michigan's Third Century
- January 25 UM Memorial Service for Dr. Chuck Vest
Ann Arbor, MI
- February 6 Guest Lecture in Psychology 120
"The College Experience"
- February 12 Guest Lecture in Social Work 815 (w/ John Tropman) – UM
Michigan's Third Century
- February 12 Introduction of Dr. Panos Papalambros – UM
for Distinguished University Professorship Lecture
- February 20 The Charles M. Vest Life Celebration (Eulogy)

- National Academy of Sciences
Washington, DC
- March 13 Research Policies Committee – UM
“The Future of the American Research University: NRC Study”
- March 18 Guest speaker at Ford School of Public Policy Faculty Lunch – UM
The Future of the American Research University
- March 19-21 NRC Policy and Global Affairs Meeting (Chair)
Irvine, CA
- March 26 Board on Higher Education and Workforce Board Meeting
The National Academies
Washington, DC
- March 26-27 American Academy of Arts and Sciences
Science and Technology Policy Project Meeting
Washington, D.C.
- April 3 Students of Color of Rackham Symposium – UM
Keynote Address
*The Past, Present and Future of Diversity and Inclusion at
the University of Michigan*
- April 12 Homer Neal Symposium – UM (HN’S Leadership)
Rackham Graduate School
- May 7 CASL Board of Directors Meeting
Virtual Meeting
- May 7-8 NRC Governing Board Meeting
Washington, DC
- May 28 - 31 Yale 50th Reunion – with Panel Presentation on May 29
New Haven, CT
- June 9
via teleconference University of California, Davis Board of Advisors Meeting
- June 26 ISR National Advisory Panel – UM
Keynote Address
The Future of the American Research University and the Role of ISR
- August 1-2 NRC Governing Board Meeting (PGA Review)
Woods Hole, Mass.
- August 5-6 SUNY Research Council Meeting
New York

2012-2013 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Policy and Global Affairs Division, National Research Council (2010 - present)

Member, National Research Council Governing Board (2010 - present)

Nonresident Senior Scholar, Brookings Institution (2010 - present)

Member, National Academies Commission on the Future of the American Research University (2010 – 2012 Report; 2012 – 2017 follow-on activities)

Member, National Academies Study of Undergraduate Education in America: (NRC-BHEW 2013 – 2014)

Co-Director (with Luc Weber of U. Geneva), Glion Colloquium (a global consortium of university presidents and corporate leaders meeting every two years in a “Davos-like” workshop in Glion-above-Montreux, Switzerland): Next meeting June 5-9, 2013 on “The Sustainability of the Research University Paradigm”

Member, Board of Directors, DOE CASL Energy Innovation Hub (Consortium for Advanced Simulation of Light Water Reactors) (2013 – present)

Member, President’s Project Advisory Committee, Facility for Rare Isotope Beams, Michigan State University and Department of Energy (2010 – present) (2011 – present)

OTHER NATIONAL ACTIVITIES

Member (with Norm Augustine and Rita Colwell): Special Investigation of Conflict of Interest Issues in University of Texas Study of Gas Shale Hydraulic Fracturing (Summer, Fall 2012)

Member, Lifelong Learning Study, National Academy of Engineering (2011 – 2012)

Member, Educate to Innovate Study, National Academic of Engineering (2013 – present)

UNIVERSITY ADVISORY BOARDS

California Institute of Technology
 Franklin Olin College of Engineering
 University of California, Davis
 University of Illinois, Chicago
 University of Missouri KC Foundation
 State University of New York Research Council

Director, Unisys Corporation (Chair, Nomination and Governance Committee)

UNIVERSITY SERVICE ACTIVITIES

Member, Advisory Council, Science, Technology, and Public Policy Program,
 Gerald R. Ford School of Public Policy

Member, IT Council

Member, History and Traditions Committee (If it still exists....)...

Member, Depression Center National Advisory Board

Chair, Festschrift for Daniel E. Atkins (October, 2012)

Principal Investigator and Chair, NSF Workshop on the Future of Discovery,
 Learning, and Innovation (October, 2012)

Chair, Ad Hoc Planning Committee for Future of DC (aka Duderstadt Center)

INSTRUCTIONAL ACTIVITIES

Public Policy 481 Science, Technology, and Public Policy (Winter Term, 2013)

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy
 (Winter Term, 2013)

EXTERNALLY FUNDED ACTIVITIES

“NSF Workshop on the Future of Discovery, Innovation, and Learning”,
 National Science Foundation EAGER Grant, \$89,000 (2012)

“Glion IX Colloquium on Global Sustainability”, National Science Foundation
 (\$70,000) (JJD PI) (2012 – 2013)

HONORS AND AWARDS

Arthur M. Bueche Award, National Academy of Engineering (“For leadership in academic and national service to support innovative science and technology policies” (Fall, 2012)

Jesse and John Danz Lecture, The University of Washington, Seattle, WA (Fall, 2012)

Richard K. Osborn Lecture, The University of Michigan (Fall, 2012)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Chair, NRC Policy and Global Affairs Division, National Academies

Regional Convocations aimed at implementation of the recommendations of the National Academies Study on the Future of the American Research University (and launch of a decade-long effort)

National Academies Study of Undergraduate Education in America (member of study and also oversight as chair of NRC PGA Division)

Continued evolution of Science, Technology, and Public Policy Program

University of Michigan History Projects (with Anne Duderstadt)

Faculty History Database:

<http://um2017.org/faculty-history/>

Faculty Memoir Website:

<http://www.lib.umich.edu/faculty-memoir/>

University History web portal:

http://um2017.org/2017_Website/Entry_Page.html

Digital Historical Maps Project

(Millennium Project)

<http://specular.dmc.dc.umich.edu/map/>

Other projects currently under development:

Staff Memorials and Memories Website

Alumni Reflections Website

Department-level WordPress Wiki websites

NEW PROJECTS FOR THE YEAR AHEAD

New Course: PP 750: The Past, Present, and Future of the American Research University (Fall Term, 2013) (See Appendix for Draft Syllabus)

Book Projects:

Truth and Light: The Past, Present, and Future of the Universities of California and Michigan, with John King

The Impact of Cyberinfrastructure on Discovery, Learning, and Innovation, with Daniel Atkins and Gary Olson

Tilting at Windmills: Battles Won, Lost, and Long Since Forgotten, a personal essay of studies and committees chaired

A University for the 21st Century, 2nd Edition, University of Michigan Press

Principles of Engineering, with Glenn Knoll and George Springer, New edition with translation into an iBook text

The Third Century: A Roadmap to the University of Michigan's Future, in revision

iBook-updated Versions of:

On the Move: UM College of Engineering History

The Third Century: A Roadmap to Michigan's Future

Universities of the World: A Pictorial Essay (with A. Duderstadt)

More information concerning current activities can be found on the Millennium Project website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Reports

Chad Holliday, James J. Duderstadt, et. al., *Research Universities and the Future of America: Ten Breakthrough Actions Vital to the Nation's Prosperity and Security*, Report of the National Academies Committee on the Future of the American Research University (Washington DC: National Academies, 2012)

James J. Duderstadt, *Reviewing and Updating the Vision for the Duderstadt Center (aka Media Union)*, Report to the Dean of the Libraries from Review Team, 2012

Norman Augustine, James J. Duderstadt, and Rita Colwell, *A Review of the Processes for Preparation and Distribution of the Report "Fact-Based Regulation for Environmental Protection in Shale Gas Development"*, University of Texas Report, November 30, 2012

Papers and Chapters

James J. Duderstadt, "Creating the Future: The Promise of Public Research Universities for America", Sesquicentennial Anniversary of the Morrill Act (Washington: Association of Public and Land-Grant Universities, 2012); also in *Precipice or Crossroads? Where America's Great Public Universities Stand and Where They Are Going*, ed. Daniel Fogel and Elizabeth Maison-Huddle (Albany: State University of New York Press, 2012)

James J. Duderstadt, "The Future of the University: A Perspective from the Oort Cloud", *Social Research* Vol 79, No. 3, Fall ,2012, pp.579-600.

James J. Duderstadt, "Research Universities and the Future of America", (Cover Article), *AGB Trusteeship*, September 2012 (Association of Governing Boards) pp. 10-13

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty Memoir Project
(Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/>

University of Michigan Faculty History Project
(Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

The University of Michigan: 1817 to 2017 Website Home Page
(Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Digital Historical Maps Project
(Millennium Project)
<http://specular.dmc.dc.umich.edu/map/>

Currently under development:

Staff Memorials and Memories Website
Alumni Reflections Website
Department-level WordPress Wiki websites

LECTURES, ADDRESSES, AND PRESENTATIONS, 2011-2012

- September 24 Presentation to SACUA – UM
*Research Universities and the Future of America:
A National Academies Study*
- September 28-Oct. 1 National Academy of Engineering Annual Meeting
Washington, D.C.
Arthur M. Bueche Award Recipient and Address
- October 8-9 Atkins Symposium and NSF Workshop
University of Michigan
- October 10-12 University of Vermont
Precipice and Crossroads: A Symposium on the Future of
Public Research Universities
Burlington, VT
The Promise of Public Research Universities
- October 15 Applied Physics 25th Anniversary Symposium – UM
*Tripping Across the Border Between Basic and Applied
Science*
- October 17-18 University of Texas at Austin
Energy Institute Review Panel – Site Visit
Austin, TX
- October 22-23 Policy and Global Affairs Committee, Chair
Washington, D.C.
- October 25 Council on Governmental Relations
Washington, D.C.
National Academies Research University Report
- October 31-Nov. 2 University of Washington
Jessie and John Danz Guest Lecturer
Seattle, WA
*Higher Education in the 21st Century: Regional Challenges,
National Responsibilities, and Global Imperatives*
- November 9 Rackham Centennial Ceremony – UM
Luncheon address: *The Future of the American Research
University*
- November 28 Organizational Studies 495 – UM
The Future of the American Research University
- November 30 Nuclear Engineering and Radiological Sciences - UM
Richard K. Osborn Lecture Guest Speaker
*Lessons Learned from a Half Century of Battles in the
Nuclear Power Wars*

December 2	Leaders for Life, Order of Angell – UM <i>Sustaining your Organization Through Empowerment</i>
December 19	Presentation to Librarians Forum - UM <i>UM History/Bicentennial Project</i>
February 12	National Climate Assessment Midwest Regional Town Hall Meeting - UM <i>Introductions and Welcome Remarks</i>
February 25 <i>via videoconference</i>	National Research Council Regional Meeting Tucson, AZ <i>NRC Study on the Future of the American Research University</i>
March 5 -6	Purdue University College of Engineering Distinguished Lecturer West Lafayette, IN <i>NRC Study on the Future of the American Research University</i>
March 13-15	Policy and Global Affairs Committee, Chair Irvine, CA
April 3-4	NRC BHEW Planning Meeting on Undergraduate Education Washington, DC <i>MOOCs, Analytics, Cognitive Tutors: Old Wine in New Bottles?</i>
April 11-12	Regional National Academies Roundtable Meeting Business Leaders of Michigan Ann Arbor, MI <i>NRC Study on the Future of the American Research University</i>
May 2	CASL Board of Directors Meeting <i>Virtual Meeting</i> <i>Strategic Plans for the Next Five Years</i>
May 6	Executive Leadership Program – UM Ann Arbor, MI <i>View from the Helm: Reflections on Leadership</i>
May 22-23	Conference on the Liberal Arts in the Research University Today – UM <ul style="list-style-type: none"> ○ <i>Future of the American Research University</i> ○ <i>Presidential Panel</i>
June 3-10	IXth Glion Symposium Glion, Switzerland The Sustainability of the Current Research University Paradigm

Appendix

A Special Course Offering for Fall Term, 2013

Pub Pol 750: The Past, Present, and Future of the American Research University

Instructor: James J. Duderstadt, President Emeritus
University Professor of Science and Engineering

Time/place: Tuesday, Thursday 2:30 to 4:00 pm
1120 Weill Hall (Annenberg Auditorium)

Requirements: Graduate standing in any University degree program

SUBJECT: This course will address the major policy issues concerning the future of the American research university. These institutions have increasingly been recognized throughout the world as a key source of basic research, advanced education, and knowledge infrastructure critical to national prosperity, social well-being, and security. While the United States still maintains strong leadership in the quality and capacity of its research university system, there are growing concerns about the vulnerability of this key asset in the face of challenges such as shifting priorities for public investment, changing demographics, globalization, and the impact of rapidly evolving technologies on learning and discovery. These topics will be considered from the perspective of key policy viewpoints at the state, national, and international level. Of particular focus are an array of recent studies by key policy bodies such as state and federal government (including federal agencies such as NSF, DoEd, DOE, and DOD, higher education organizations such as the Association of American Universities, advisory bodies (e.g., the National Academies, the Gates Foundation), and international organizations (e.g., Organization for Economic Co-operation and Development, the European University Association, and the Glion Colloquium) concerning the actions that might be taken to sustain these critical assets. As one of the world's leading research universities, the University of Michigan provides an excellent case study of the challenges and possible futures for this critical social institution.

A Preliminary Syllabus

BACKGROUND: For the past two decades, JJD (the instructor) has chaired, served on, or been responsible for a broad array of such major policy studies concerning the nation's research universities, e.g., studies by the National Academies (e.g., *IT and the Future of Research Universities*, *Research Universities and the Future of America*, National Graduate Program Assessment and Rankings), other federal agencies (e.g., the Spellings Commission of the Department of Education, studies on research and education policy by the National Science Foundation and National Science Board), and other advisory bodies (e.g., the Brookings Institution, the Association of Governing Boards), and international studies of research by a number of nongovernment agencies such as the Glion Colloquium and OECD). As current chair of the Policy and Global Affairs Division of the National Research Council (National Academies), JJD current plays a major role in shaping the nation's research and education policies. The course will be heavily based on this "real-time" policy activity and involve guest participants with expertise and experience in these areas.

STUDENT EXPECTATIONS: This course will be conducted in a manner appropriate for students from a broad array of graduate degree programs including public policy, arts and sciences, and professional schools such as education, law, business, engineering, and health sciences, since all are characteristic of the degree programs characterizing the modern research university. Students with interests in possible academic careers will find this course of particular value. Student participation will include both individual assignments (e.g., reaction papers on particular topics) as well as team projects to analyze particular issues and propose specific policies and practices (e.g., the financing of graduate education and research, impact of technology on instruction and research, globalization of higher education, preparation of future faculty, leadership and governance) of relevance to ongoing studies at the state, national, and international level.

STUDENT READINGS: Most of the reading assignments for this course will consist of contemporary policy reports that are openly available from federal agencies, foundations, international institutions, and higher education. Occasional readings will also be assigned from the writings of prominent leaders of American higher education.

Course Outline

The Past

Antecedents

The evolution of the European university...

From U Bologna and U Paris to U Berlin and U Gottingen

A Brief History of American Higher Education

Colonial colleges to state universities

The Morrill Act and the land-grant universities

Science, the Endless Frontier and the research university

A Case Study: The University of Michigan

The Present

Characteristics of Today's American Research Universities

Missions (Learning, Discovery, Engagement)

Faculty Roles

Resources

Governance and Leadership

System Issues

Environmental Scan

The Knowledge Economy

Globalization

Demographics

Technological Change

Changing Educational Needs

Finances

Markets

A Changing Social Contract

Major Studies

Federal Agencies (DoEd, NSF, NIH, OSTP...)

National Academies (NRC, AAA&S, ...)
Foundations (Carnegie, Sloan, Gates, Brookings,...)
Higher Ed Organizations (AAU, APLU, AGB,...)
International Studies (OECD, EUA, Glion...)

A Case Study: The University of Michigan Today

The Future of the American Research University

Game-Changers
Globalization
Demographics
Technology

Paradigm Shifts
Common Denominators
Emerging Models
Learning Ecologies
Roadmaps to the Future

A Case Study: The University of Michigan's Third Century

2011-2012 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Policy and Global Affairs Division, National Research Council (2010 - 2014)

Member, National Research Council Governing Board (2010 - 2014)

Nonresident Senior Scholar, Brookings Institution (2010 - present)

Member, National Academies Commission on the Future of the American Research University (2010 – present)

Co-Director (with Luc Weber of U. Geneva), Glion Colloquium (a global consortium of university presidents and corporate leaders meeting every two years in a “Davos-like” workshop in Glion-above-Montreux, Switzerland)

Member, Board of Directors, DOE CASL Energy Innovation Hub (Consortium for Advanced Simulation of Light Water Reactors)

Member, President’s Project Advisory Committee, Facility for Rare Isotope Beams, Michigan State University and Department of Energy (2010 – present)

OTHER ACTIVITIES

Director, Chicago Council for Global Affairs Project to Develop and Execute a Regional Master Plan for Higher Education (2009 – present)

Member, Lifelong Learning Study, National Academy of Engineering

University Advisory Boards

California Institute of Technology
 Franklin Olin College of Engineering
 University of California, Davis
 University of Illinois, Chicago
 University of Missouri KC Foundation

Director, Unisys Corporation (Chair, Nomination and Governance Committee)

UNIVERSITY SERVICE ACTIVITIES

Member, Advisory Council, Science, Technology, and Public Policy Program,
Gerald R. Ford School of Public Policy

Fellow, Michigan Memorial Phoenix Energy Institute

Member, IT Council

Member, History and Traditions Committee

Chair, Festschrift for Daniel E. Atkins (October, 2012)

Chair, Ad Hoc Planning Committee for Future of DC (aka Duderstadt Center)

INSTRUCTIONAL ACTIVITIES

Public Policy 481 (with Homer Neal), Science, Technology, and Public Policy

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy

EXTERNALLY FUNDED ACTIVITIES

“Glion VIII Colloquium on Global Sustainability”, National Science Foundation
(\$99,000) (JJD PI) (2011 – 2012)

“NSF Workshop on the Future of Discovery, Innovation, and Learning”, planned
for October 9, 2012, at UM with a mirror site at NSF headquarters,
proposal submitted to NSF EAGER program in March for \$89,000.

CONTINUING PROJECTS FOR THE YEAR AHEAD

Leadership for NRC Policy and Global Affairs Division, National Academies

Rollout of the National Academies Study on the Future of the American Research
University (and launch of a decade-long effort)

Brookings Institution Projects (sustainable energy, Midwest economic
development)

Continued evolution of Science, Technology, and Public Policy Program

University of Michigan History Projects (with Anne Duderstadt)

Faculty History Database: <http://um2017.org/faculty-history/>

Faculty Memoir Website: <http://www.lib.umich.edu/faculty-memoir/>

University History web portal:
http://um2017.org/2017_Website/Entry_Page.html
Department-level Wordpress Wiki websites

NEW PROJECTS FOR THE YEAR AHEAD

New Course: Public Policy, Education: Graduate Seminar -
Higher Education Policy at the National and International Level

New Book Projects:

“A Tale of Two Universities: the University of California and
the University of Michigan”

“The Third Century: A Roadmap to the University of Michigan’s
Future”

iBook-updated Versions of:

On the Move: UM College of Engineering History
The Third Century: A Roadmap to Michigan’s Future
Universities of the World: A Pictorial Essay (with A. Duderstadt)
Principles of Engineering (with G. Knoll and G. Springer)

New Research Project:

A Research Roadmap for the Changing Nature of Discovery, Learning,
and Innovation (NSF Grant)

More information concerning current activities can be found on the Millennium Project
website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Books

James J. Duderstadt and Luc Weber, eds, *Global Sustainability and the Responsibilities of Universities*, Glion VIII Colloquium (Paris: Economica, 2012). <http://www.glion.org/>

James J. Duderstadt, *The Third Century: A Roadmap to the University of Michigan's Future* (Ann Arbor: Millennium Project, 2012) still evolving

Reports

James J. Duderstadt, et. al., *Research Universities and the Future of America: Ten Breakthrough Actions Vital to the Nation's Prosperity and Security*, Report of the National Academies Committee on the Future of the American Research University (Washington DC: National Academies, 2012) in press (Embargoed until June, 2012).

Papers and Chapters

James J. Duderstadt, *Creating the Future: The Promise of Public Research Universities for America*, Sesquicentennial Anniversary of the Morrill Act (Washington: Association of Public and Land-Grant Universities, 2012) in press

James J. Duderstadt, *Global Sustainability: Timescales, Magnitudes, Paradigm Shifts, and Black Swans*, VIII Glion Colloquium (Paris: Economica, 2012)

James J. Duderstadt, *Engineering Design: A Foundation for a 21st Century Renaissance*, J. Mechanical Engineering Design, July, 2011

James J. Duderstadt, *The Future of the University: A Perspective from the Oort Cloud*, The New School, to be published in Social Research, 2012

James J. Duderstadt, *Reinventing the American Research University*, De Lange Conference on Higher Education, Rice University, proceedings to be published, 2012

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty Memoir Project
(Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/>

University of Michigan Faculty History Project
(Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

The University of Michigan: 1817 to 2017 Website Home Page
(Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Millennium Project Website: <http://milproj.dc.umich.edu/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2011-2012

- September 12-13 University System of New Hampshire
Board of Trustees Retreat
Portsmouth, NH
The Future of Public Research Universities
- September 21 The Office of Naval Research
Distinguished Lecture Series
Arlington, VA
The Future of Engineering Education
- October 10-11 The National Academies
Chair, Policy and Global Affairs Committee
Washington, DC
- October 16-18 University of New Mexico
Symposium on Scholarly Communication
Albuquerque, NM
The Future of the American Research University
- November 3-4 Committee on Institutional Cooperation
Academic Leadership Program
Indiana University
Bloomington, IN
Key Issues Facing CIC Institutions
- November 8-9 The National Academies
National Research Council Governing Board
Washington, DC
- December 8-9 The New School
Social Research Conference
New York City
The Future of the University
- January 5 Knight Wallace Fellows – UM
College Athletics
- January 9
via teleconference University of California, Davis
Board of Visitors Meeting
Davis, CA
- January 13 Presentation to Board on Higher Education and Workforce
National Research Council
Washington, DC
NRC Study: Future of the American Research University

- January 30 Michigan Campus Compact Conference
Keynote Address
East Lansing, MI
A Master Plan for Higher Educ. in the Midwest
- January 31 Public Policy 481 – UM
Science and Engineering Workforce
- February 6-7 National Research Council *
Governing Board Meeting
Irvine, CA
The NRC Research University Study
- February 13 Senate Assembly – UM *
UM Bicentennial Planning
- February 15-16 CASL Board of Directors Meeting
Cambridge Mass
- February 26-28 DeLange Conference VIII
Rice University
Houston, TX
Reinventing the Research University
- March 8-9 The National Academies
Policy and Global Affairs Committee
Washington, DC
- March 10 College of Engineering Prospective Student Brunch – UM *
The Excitement of Graduate Education at Michigan
- March 16 College of Engineering, Office of Student Affairs – UM *
History of U-M Activism
- March 29 University of Florida *
Board of Trustees Retreat
Gainesville, FL
The Challenges Facing Public Higher Education
- April 2 Coalition for Networked Information *
Baltimore, MD
Reinventing the Research University to Serve a Changing World
- April 19 Doctoral Defense for Matthew Lambert
- May 8 CASL Board of Directors Meeting
via teleconference
Oak Ridge, TN
- June 4-8 NRC Report Pre-Release Briefings
Washington, D.C

June 14 National Academy Press Conference
Washington, D.C.
*Release of Report on the Future of the American
Research University*

August 3-4 National Research Council
Governing Board Meeting
Woods Hole, MA

2010-2011 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Policy and Global Affairs Division, National Research Council (2010 -)

Member, National Research Council Governing Board (2010 - 2014)

Nonresident Senior Scholar, Brookings Institution (2010 - present)

Member, National Academies Commission on the Future of the American Research University (2010 – present)

Member, President’s Project Advisory Committee, Facility for Rare Isotope Beams, Michigan State University and Department of Energy (2010 – present)

Co-Chair (with Luc Weber), 2011 Glion VIII Colloquium (EU-US-Asia consortium of university presidents and corporate leaders; Glion VIII Topic: “Research Universities and Global Sustainability”)

UNIVERSITY SERVICE ACTIVITIES

Co-Director, Science, Technology, and Public Policy Program, Gerald R. Ford School of Public Policy

Fellow, Michigan Memorial Phoenix Energy Institute

Member, IT Council

Member, History and Traditions Committee

Member, Rackham Graduate School Centennial Planning Committee

OTHER ACTIVITIES

Director, Chicago Council for Global Affairs Project to Develop and Execute a Regional Master Plan for Higher Education (2009 – present)

Member, Lifelong Learning Committee, National Academy of Engineering

University Advisory Boards

California Institute of Technology
 Franklin Olin College of Engineering
 Harvard University College of Engineering
 University of Missouri KC Foundation

Member, International Advisory Committee for Reforming the Greek Universities, Greek Ministry of Education (2010)

Director, Unisys Corporation (Chair, Nomination and Governance Committee)

INSTRUCTIONAL ACTIVITIES

Public Policy 481 (with Homer Neal), Science, Technology, and Public Policy

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy

EXTERNALLY FUNDED ACTIVITIES

“Science, Technology, and Public Policy Postdoctoral Fellowship Program”, Dow Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

“Glion VIII Colloquium on Global Sustainability”, National Science Foundation (\$99,000) (JJD PI) (2011 – 2012)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Leadership for NRC Policy and Global Affairs Division, National Academies

Future of the American Research University (National Academies study)

Brookings Institution Projects (energy, Midwest economic development)

Great Lakes Renaissance Project (with Chicago Council on Global Affairs)

Engineering “Flexner” Project (National Academies, NSF)

Continued evolution of Science, Technology, and Public Policy Program

UM2017 Project (Bicentennial Planning, UM History Database Development)

NEW PROJECTS FOR THE YEAR AHEAD

New Course:

Public Policy, Education: Graduate Seminar

National Policies for Higher Education (Fall Term)

New Research Project:

A National "Roadmap" for a Learning- and Innovation-Driven World

New Book Projects:

"A Tale of Two Universities: the University of California and
the University of Michigan"

"Universities of the World: A Pictorial Essay" (in preparation)

"The Third Century: A Roadmap to the University of Michigan's
Future" (in preparation)

More information concerning current activities can be found on the Millennium Project website:

<http://milproj.dc.umich.edu/>

PUBLICATIONS

Books

James J. Duderstadt and Luc Weber, eds, *University Research for Innovation*, Glion VII Colloquium (Paris: Economica, 2010).

http://www.glion.org/pub_2010_innovation.html

James J. Duderstadt, *A Master Plan for Higher Education in the Midwest; A Roadmap to the Future of the Nation's Heartland* (Chicago: Chicago Council on Global Affairs, 2011).

<http://milproj.dc.umich.edu/pdfs/2011/A%20Master%20Plan%20for%20Higher%20Education.pdf>

James J. Duderstadt, *The View from the Helm Illustrated: Leading the American University During an Era of Change* (Ann Arbor: Millennium Project, 2010)

http://milproj.dc.umich.edu/pdfs/View_from_Helm_Illustrated.pdf

James J. Duderstadt, *The Third Century: A Roadmap to the University of Michigan's Future* (Ann Arbor: Millennium Project, 2011) in preparation

Reports

James J. Duderstadt, Mark Muro, Sarah Rahman, *Hubs of Transformation: Leveraging the Great Lakes Research Complex for Energy Innovation*, Brookings Institution Policy Brief 173 (Washington, DC: Brookings Institution, 2010)

http://milproj.dc.umich.edu/pdfs/2010/Brookings_Innovation_Clusters.pdf

James J. Duderstadt, *A Master Plan for Higher Education in the Midwest* (Ann Arbor: Millennium Project, 2010)

http://milproj.dc.umich.edu/pdfs/Midwest_Master_Plan.pdf

James J. Duderstadt, *Securing Hawaii's Future through the University of Hawaii Education Summit*, Honolulu (Ann Arbor, Millennium Project)

<http://milproj.dc.umich.edu/pdfs/2011/University%20Planning%20Primer.pdf>

James J. Duderstadt, *Diversity Management in American Universities*, Presentation to Rectors of German Universities (Ann Arbor: Millennium Project)

http://milproj.dc.umich.edu/pdfs/2010/CHE_Berlin_Oct_2010.pdf

James J. Duderstadt, *A Primer on University Planning*, Presentation to the Rectors of the Finnish Universities (Ann Arbor: Millennium Project, 2011)

<http://milproj.dc.umich.edu/pdfs/2011/University%20Planning%20Primer.pdf>

James J. Duderstadt, et. al., *The Future of the American Research University*, Report of the National Academies Committee on the Future of the American Research University (Washington DC: National Academies, 2011) in press (Embargoed until September, 2011).

Papers and Chapters

James J. Duderstadt, *Maintaining the Research Capacity of the Public University*, Sesquicentennial Anniversary of the Morrill Act (Washington: Association of Public and Land-Grant Universities, 2011) in press

James J. Duderstadt, *Global Sustainability: Timescales, Magnitudes, Paradigm Shifts, and Black Swans*, VIII Glion Colloquium (Paris: *Economica*, 2011)

James J. Duderstadt, *Engineering Design: A Foundation for a 21st Century Renaissance*, J. Mechanical Engineering, 2011, in press

Other Knowledge Resources (with Anne Duderstadt)

University of Michigan Faculty Memoir Project
(Millennium Project, Bentley Library, Duderstadt Center)
<https://www.lib.umich.edu/faculty-memoir/> (Co-sign necessary)

University of Michigan Faculty History Project
(Millennium Project, Bentley Library, Duderstadt Center)
<http://um2017.org/faculty-history/>

The University of Michigan: 1817 to 2017 Website Home Page
(Millennium Project)
http://um2017.org/2017_Website/Entry_Page.html

Millennium Project Website:
<http://milproj.dc.umich.edu/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2010-2011

- September 9 University of Hawaii, Honolulu, Hawaii
Higher Education Summit
The Future of Higher Education in Hawaii
- September 14 Iowa State University
Lecture - via webcast
The Challenge of Globalization
- September 27 Big 10 Budget Officers Conference – UM
Financial Challenges to Public Research Universities
- October 19-25 German Rectors Conference, Berlin, Germany
KEYNOTE ADDRESS
Diversity Management in Higher Education
- November 16-17 Policy and Global Affairs Committee, NR, Washington
JJD, Session Chair
- November 18 Guest Lecture in Louis Glazer's class – UM
UP 538: Economic Development Planning
- November 19 UMKC Bloch School of Business
Video Address to Chinese delegation
Challenges of the American University in the 21st Century
- February 18-19 American Association for the Advancement of Science
Washington, DC
The University of the Future - Session Chair
- February 24 VOICES of the Staff – UM
UM Bicentennial planning and staff role in UM history
- February 24 Knight-Wallace Fellows – UM
The Future of the American Research University
- March 8 College of Engineering - UM
Brownbag Lunch
Paradigm Shifts in the Teaching of Engineering
- March 10-11 Policy and Global Affairs Committee, NRC, Washington
Chair
- March 16-17 University of Illinois, Urbana Champaign
Graduate College Distinguished Lecture
The Future of Graduate Education
- March 27-28 Finnish Rectors Conference, Fulbright Program
Chapel Hill, NC
*Strategic Management of US Higher Education:
The Presidential Perspective*

- March 30 UM College of Engineering Goff Smith Lecture – UM
Moderator for Dr. Condoleezza Rice address
- March 31 Chicago Council on Global Affairs, Chicago
Heartland Paper release event and press conference
A Master Plan for Higher Education in the Midwest
- April 1 CIC-CASIC Research Summit, Oakbrook, IL
KEYNOTE ADDRESS
*Addressing the Imperatives of an Innovation-Driven
Global Economy*
- April 21 Webinar with the Council of State Governments
Luncheon Address
Building a Competitive Midwest through Regional Collaboration
- May 20 UM Design Frontiers Symposium
Elevating Design on the National Agenda
- May 27 UM CRLT Chinese Leadership Seminar
The Globalization of Higher Education
- June 8 President’s Meeting, Great Lakes Colleges Association
*A Master Plan for Higher Education in the Midwest:
The Implication for Independent Colleges*
- June 15-22 Glion VIII Colloquium, Glion, Switzerland
Co-chair and presenter
*Global Sustainability: Timescales, Magnitudes, Paradigm Shifts,
and Black Swans*
- August 2 Academic Corporate Relations Officers Annual Meeting
Ann Arbor, MI
*The Changing Landscape of Corporate Relations:
Interface Between Research Universities and Industry*
- August 18 University of Illinois Chicago Leadership Retreat, Chicago, IL
KEYNOTE ADDRESS
Some Thoughts on the Future of the University of Illinois-Chicago

2009-2010 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Co-Chair (with Luc Weber), 2009 Glion VII Colloquium (EU-US-Asia consortium of university presidents and corporate leaders; Glion VII Topic: "The Role of Research Universities in Innovation-Driven Economies")

Chair, Next Energy Project, Brookings Institution (2007 - present)

Co-Chair (with Jeffrey Sachs), NSF Roundtable on Global Sustainability (2009 – 2010)

Member, National Academies Commission on the Future of the American Research University (2010 – present)

Member, Intelligence Science Board (U.S. Director of National Intelligence) (2007-2009)

Member, Policy and Global Affairs Oversight Committee, National Academies (2008 – present)

UNIVERSITY LEADERSHIP ACTIVITIES

Co-Director, Science, Technology, and Public Policy Program, Gerald R. Ford School of Public Policy

Fellow, Michigan Memorial Phoenix Energy Institute

OTHER SERVICE ACTIVITIES

Member, Chicago Council for Global Affairs Project to Develop a Regional Economic Development Strategy for the Great Lakes States (2008 – present)

Member, Presidential Search Committee for the Khalifa University of Science, Technology, and Research (KUSTAR), Abu Dhabi, UAE

Leader, Project to Assess Economic Development of Greater Kansas City area

Project Director, Development of an Education Master Plan for the Midwestern States

Member, National Academy of Engineering Lifelong Learning Committee

University Advisory Boards

California Institute of Technology
 Franklin Olin College of Engineering
 University of Missouri KC Foundation
 Michigan State Heavy Ion Accelerator Advisory Board

Chair, Board of Advisors, Detroit University Preparatory Academy for Science
 and Mathematics (2009 – present)

Director, Unisys Corporation (Chair, Nomination and Governance Committee)

INSTRUCTIONAL ACTIVITIES

Public Policy 481 (with Homer Neal), Science, Technology, and Public Policy

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy

EXTERNALLY FUNDED ACTIVITIES

“Science, Technology, and Public Policy Postdoctoral Fellowship Program”, Dow
 Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

OTHER PROJECTS

University of Michigan Bicentennial Planning Effort (University History and
 Traditions Committee)

University of Michigan Faculty History Project (Bentley Library, Millennium
 Project, Duderstadt Center)

AWARDS AND HONORS

CONTINUING PROJECTS FOR THE YEAR AHEAD

Brookings Institute Next Energy Project

Engineering Flexner Project

Future of the American Research University (National Academies study)

UM2017 Project (Bicentennial Planning)

Evolution of Science, Technology, and Public Policy Program

Michigan Economic Recovery Project

Great Lakes Renaissance Project (with Chicago Council on Global Affairs)

NEW PROJECTS FOR THE YEAR AHEAD

Early Planning (and Fund Raising) for Glion VIII Colloquium on “The Role of Research Universities in Addressing the Challenges of Global Sustainability”

Book Projects:

“Transforming the American Midwest into a Learning and Innovation Society: An Education Roadmap to the Future” (in press)

“The View from the Helm Illustrated”, 2nd Edition (in press)

“The Third Century: A Roadmap to the University of Michigan’s Future” (in preparation)

“Universities of the World: A Pictorial Essay” (in preparation)

PUBLICATIONS

Books

James J. Duderstadt and Luc Weber, eds, *University Research for Innovation*, Glion VII Colloquium (Paris: Economica, 2010).

Major Reports

James J. Duderstadt, Mark Muro, Sarah Rahman, *Hubs of Transformation: Leveraging the Great Lakes Research Complex for Energy Sector Innovation*, (Washington: Brookings Institution, 2010)

James J. Duderstadt, *Time To Get It Right: The View from Year Five* (Kansas City: Great Kansas City Community Foundation, 2009)

Papers and Chapters

James J. Duderstadt, "Possible Futures for the Research Library in the 21st Century", *J. Library Administration* 49:217-225, 2009

James J. Duderstadt, "Current Global Trends in Higher Education and Research: Their Impact on Europe", University of Vienna *Dies Academicus* Address (Vienna: University of Vienna, 2009)

James J. Duderstadt, "Engineering for a Changing World: A Roadmap to the Future of American Engineering Practice, Research, and Education", in *Holistic Engineering Education*, Dominic Grasso, Ed. (New York: Springer, 2010)

James J. Duderstadt, "New University Paradigms for Technological Innovation", in Glion VII Colloquium (Paris: *Economica*, 2009)

James J. Duderstadt, Paul N. Courant, and Edie N. Goldenberg, "Needed: A National Strategy to Preserve Public Research Universities", Commentary, *The Chronicle of Higher Education*, January 8, 2010, p. A36

James J. Duderstadt, "Aligning American Higher Education with a Twenty-first-century Public Agenda: Examining the National Purposes of American Higher Education: A Leadership Approach to Policy Reform", *Higher Education in Europe*, Vol. 34, No. 3-4, October-December, 2009, pp. 347-366

Other Knowledge Resources

University of Michigan Faculty History Project (Millennium Project, Bentley Library, Duderstadt Center)

<http://davinci.dc.umich.edu/faculty-history/index.html>

http://umhistory.dc.umich.edu/history/Faculty_History/Faculty_History/Welcome.html

Millennium Project Website: <http://milproj.dc.umich.edu/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2008-2009

- | | |
|-------------|--|
| October 2 | University of Georgia – KEYNOTE ADDRESS
Distinguished Lecture in Engineering
<i>Some Observations on the 21st Century University and a Changing World</i> |
| October 6 | PSYCH 120 – UM
<i>Intercollegiate Athletics</i> |
| October 9 | ED 690 - UM
<i>Public Research Universities: An Endangered Species?</i> |
| October 12 | Brainstorming Session with John Seely Brown – UM |
| October 19 | College of Engineering Emeritus Faculty Meeting
<i>The University History Project – JJD</i>
<i>Documenting our College History - AMD</i> |
| October 21 | National Education Technology Plan Public Forum
School of Information – UM |
| October 22 | Engineering Society of Detroit
2010 Economic Forecast for Design and Construction
<i>After the Fall: Michigan's Future in a Flat World</i> |
| October 24 | Iowa State University
12 th Annual Colloquium on International Education
KEYNOTE ADDRESS - <i>via webcast</i>
<i>The Globalization of Higher Education</i> |
| November 13 | ASME IMECE 5xME Workshop – KEYNOTE ADDRESS
<i>A 21st Century Paradigm for U.S. Engineering</i> |
| December 1 | National Science Foundation Strategic Planning Session
<i>The Future Direction of NSF in the Near Term and Long Term</i> |
| January 20 | Memorial Tribute for Robben Fleming |
| February 3 | Alumni Association Leadership Team
<i>UM Bicentennial/Faculty History Projects</i> |
| February 5 | Session with Sheri Sheppard – UM
<i>A Conversation on the Future of Engineering Education</i> |

- February 11 Policy and Global Affairs Committee – *via conference call*
Board on Higher Education Workforce Report
- March 3 University of Vermont
Transdisciplinary Research Initiative – *via conference call*
- March 9 Senate Finance Committee Briefing with Senator Cassis
- March 9 Scientific Club Interview with Bill McKeachie – UM
*Teaching, Research and Learning: Over 60 Years as a
Faculty Member at UM*
- March 11 Knight Wallace Fellows – UM
Nuclear Options
- March 20 College of Engineering Prospective Student Day – UM
The Excitement of Graduate Education at Michigan
- April 6 Forum on Contemporary Issues in Society
Wayne State University, Detroit
Michigan Economy
- April 9 Arizona State University
NAE Grand Challenges Summit
New Learning Paradigms for a Changing World
- May 12 UC Davis Clean Energy Technologies Summit
*E3: Economic Prosperity, Energy and the Environment:
A Roundtable to Set the Agenda on Clean and Sustainable Paths
to Economic Prosperity*
- May 28 CRTL Symposium with Chinese Presidents – UM
- June 3 Brookings Summit Meeting in Energy R&D
Regional Energy Innovation Hubs
- June 21 Woodrow Wilson Center Roundtable with University Leaders
From China, Japan, and Korea
The Future of the University

THE MILLENNIUM PROJECT
UNIVERSITY OF MICHIGAN

2008-2009 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Cyberinfrastructure Advisory Committee, National Science Foundation
(2006 - 2009)

Co-Chair (with Luc Weber), 2009 Glion VII Colloquium (EU-US-Asia consortium
of university presidents and corporate leaders; Glion VII Topic: "The Role
of Research Universities in Innovation-Driven Economies")

Chair, Next Energy Project, Brookings Institution (2007 - present)

Co-Chair (with MRC Greenwood), Evolution of the Research University
Enterprise Project, National Research Council, (2008 - present)

Co-Chair (with Jeffrey Sachs), NSF Roundtable on Global Sustainability (2009 –
present)

Member, Intelligence Science Board (U.S. Director of National Intelligence) (2007-
present)

Member, Policy and Global Affairs Committee, National Academies (2008 –
present)

UNIVERSITY LEADERSHIP ACTIVITIES

Co-Director, Science, Technology, and Public Policy Program, Gerald R. Ford
School of Public Policy

Fellow, Michigan Memorial Phoenix Energy Institute

OTHER SERVICE ACTIVITIES

Member, Executive Council, American Association for the Advancement of
Science (2006 – present)

Member, Chicago Council Project to Develop a Regional Economic Development
Strategy for the Great Lakes States (2008 – present)

Member, University of California Regents Task Force on Accountability and Transparency (2009 – present)

Chair, Board of Advisors, Detroit University Preparatory Academy for Science and Mathematics (2009 – present)

Director, Unisys Corporation (1990 - present)

Member, National Depression Center, Advisory Board (2007 - present)

Leader, Project to Assess Economic Progress of Greater Kansas City area

Member, National Academy of Engineering Lifelong Learning Committee

University Advisory Boards

California Institute of Technology

Georgia Institute of Technology

Franklin Olin College of Engineering

Michigan State Heavy Ion Accelerator Advisory Board

INSTRUCTIONAL ACTIVITIES

Public Policy 481 (with Homer Neal), Science, Technology, and Public Policy

Public Policy 634 (with Paul Courant and Edie Goldenberg), The Plight and Future of America's Public Research Universities

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy

EXTERNALLY FUNDED ACTIVITIES

"Science, Technology, and Public Policy Postdoctoral Fellowship Program", Dow Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

OTHER PROJECTS

University of Michigan Bicentennial Planning Effort (University History and Traditions Committee)

University of Michigan Faculty History Project (Bentley Library, Millennium Project, Duderstadt Center)

AWARDS AND HONORS

Honorary Degrees (and Commencement Addresses)

McGill University (2009)

Dartmouth College (2009)

Honorary Lectures

Dies Academicus Lecture, University of Vienna (2009)
 Millennium Address, University of Texas, El Paso (2008)

CONTINUING PROJECTS FOR THE YEAR AHEAD

Brookings Institute Next Energy Project
 Engineering Flexner Project
 Future of the Public Research University
 UM2017 Project (Bicentennial Planning)
 Evolution of Science, Technology, and Public Policy Program
 Michigan Recovery Project
 Great Lakes Renaissance Project (with Chicago Council)

NEW PROJECTS FOR THE YEAR AHEAD

The Plight and Future of the Public Research University

An effort by the National Academies (and possibly the National Academy of Arts and Sciences) to understand and address the risks faced by public research universities as state support erodes and predatory pressures from wealthy private universities threatens quality and capacity.

Early Planning (and Fund Raising) for Glion VIII Colloquium on “The Role of Research Universities in Addressing the Challenges of Global Sustainability”

Book Projects:

A pictorial essay on history of the evolution of the western university in Europe, North America, Asia, and Beyond

Glion VII (ed), “Research Universities in Innovation-Driven Economies”

“Beyond the Fringe”, a series of papers on paradigm shifts in higher education

PUBLICATIONS

Books

James J. Duderstadt and Luc Weber, eds, *Research Universities and Innovation-Driven Economies*, Glion VII Colloquium (Paris: Economica, 2009) in press

Major Reports

James J. Duderstadt, chair, *Energy Discovery Innovation Institutes: A Step Toward America's Energy Sustainability*, Blueprint for American Prosperity (Washington: Brookings Institution, 2008)

Papers and Chapters

James J. Duderstadt, "Changing University Missions and Profiling: Some Lessons Learned from the New World", *Bologna Handbook* (Brussels: European University Association, 2008)

James J. Duderstadt, "Possible Futures for the Research Library in the 21st Century", *J. Library Administration* 49:217-225, 2009

James J. Duderstadt, "Current Global Trends in Higher Education and Research: Their Impact on Europe", University of Vienna *Dies Academicus* Address (Vienna: University of Vienna, 2009)

James J. Duderstadt, "Engineering for a Changing World: A Roadmap to the Future of American Engineering Practice, Research, and Education", in *21st Century Engineering*, Dominic Grasso, Ed. (Burlington, VT: University of Vermont, 2009)

James J. Duderstadt, "New University Paradigms for Technological Innovation", in *Glion VII Colloquium* (Paris: Economica, 2009)

Other Knowledge Resources

University of Michigan Faculty History Project (Millennium Project, Bentley Library, Duderstadt Center)

<http://davinci.dc.umich.edu/faculty-history/index.html>

http://umhistory.dc.umich.edu/history/Faculty_History/Faculty_History/Welcome.html

Millennium Project Website: <http://milproj.dc.umich.edu/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2008-2009

- September 4 Stanford University / Carnegie Foundation Video Presentation
Engineering for the 21st Century
- September 21 Iowa State University Webcast
The Impact of Globalization on Higher Education
- October 30 ABET Annual Meeting, Keynote Address, Louisville
Shifting Accreditation from Undergraduate to Graduate Programs
- November 5 Case Western Research University, Ostrach Distinguished Lecture
Engineering for a Changing World
- November 10 NASULGC Council of Presidents Meeting, Chicago
Sustaining the Public University as a National Asset
- November 11 NASULGC Annual Meeting, Chicago
Setting the Energy and Environmental Research Agenda
- December 11 UM Scientific Club / Azazels Dinner
Preparing for the UM Bicentennial
- December 15 NSF Advisory Committee on Cyberinfrastructure, Washington
A New Administration, A New Agenda
- January 22 Knight Wallace Fellows Seminar, UM
A Nuclear Renaissance in America?
- January 23 Detroit University Preparatory Academy for Science and Mathematics
Launching a Board of Advisors
- January 24 CIC Academic Leadership Program, Ann Arbor
The Role of Higher Education in the Knowledge Economy
- February 5 Psychology 120, Guest Lecture
Intercollegiate Athletics
- March 12 University of Vienna Dies Academicus Address, Vienna
*Current Global Trends in Higher Education and Research:
Their Impact on Europe*
- March 19 Engineering Society of Detroit
The Michigan Roadmap
- March 23 ASEE Engineering Deans Institute, Keynote Address, Boston
A Flexner Report on Engineering
- March 14 National Academy of Engineering, Keynote Address, Washington
Using the Liberal Arts Model as a Template in Engineering

- March 30 Meeting with Secretary Stephen Chu, US Department of Engineering
The Brookings Next Energy Project
- April 28 City University of New York, Great Issues Forum
The Power of Public Education
- May 12 Olin College, Board of Visitors Meeting
A Flexner Report on Engineering
- May 19 National Canadian Summit on Engineering, Montreal
Re-engineering the Education of Engineers
- May 21 Congressional Briefings, Brookings Institution, Washington
National Energy Policy
- May 16 McGill University, Commencement Address, Montreal
A Future of Change, Challenge, and Opportunity
- June 5 Yale University 45th Reunion, Session Chair
Mind, Body, and Soul: The Challenge of Aging
- June 13 Dartmouth College, Commencement Address, Hanover, NH
A Future of Change, Challenge, and Opportunity
- June 20-24 VII Glion Colloquium, Montreux, Switzerland
New Research Paradigms for Technology Innovation

THE MILLENNIUM PROJECT
UNIVERSITY OF MICHIGAN

2007 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP ACTIVITIES

Chair, Cyberinfrastructure Advisory Committee, National Science Foundation
(2006 - present)

Co-Chair, Glion Colloquium (EU-US-Asia consortium of university presidents
and corporate leaders, which meets every two years in Glion,
Switzerland)

Chair, Review Committee for the Keck Futures Initiative on Interdisciplinary
Research, National Academies (2007-2008)

Chair, Drafting Team, Brookings Institution Next Energy Project (2007-2008)

Commissioner, Secretary of Education's Commission on the Future of Higher
Education (2005-2008)

Member, Evolution of the Research University Enterprise Project, National
Research Council, (2008 - present)

Member, Intelligence Science Board (U.S. Director of National Intelligence) (2007-
present)

UNIVERSITY LEADERSHIP ACTIVITIES

Co-Director, Science, Technology, and Public Policy Program, Gerald R. Ford
School of Public Policy

Fellow, Michigan Memorial Phoenix Energy Institute

OTHER SERVICE ACTIVITIES

Member, Advisory Committee, New Economy Initiative for Southeastern
Michigan (2006- present)

Member, Executive Council, American Association for the Advancement of
Science (2006 – present)

Member, Department of Energy “Red Team”, to Assess a 20 year Strategy for Nuclear Energy Research (2008)

Member, Chicago Council Project to Develop a Regional Economic Development Strategy for the Great Lakes States (2008 – present)

Member, Association of Governing Board and Miller Center of the University of Virginia Project to Define an American Agenda for Higher Education (2008)

Director, Unisys Corporation (1990 - present)

National Depression Center, Advisory Board (2007 - present)

University Advisory Boards
 California Institute of Technology
 Georgia Institute of Technology
 Franklin Olin College of Engineering

INSTRUCTIONAL ACTIVITIES

Leadership of effort to create new Science, Technology, and Public Policy program, including new graduate concentration program, faculty recruiting, and fund-raising.

Public Policy 754, Graduate Seminar on Science, Technology, and Public Policy

EXTERNALLY FUNDED ACTIVITIES

“Science, Technology, and Public Policy Postdoctoral Fellowship Program”, Dow Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

OTHER PROJECTS

University of Michigan Faculty History Project (Bentley Library, Millennium Project, Duderstadt Center)

AWARDS AND HONORS

Honorary Degrees (and Commencement Addresses)

Arizona State University (2008)
 Franklin Olin College of Engineering (2008)
 McGill University (2009)

Honorific Lectures

Pathways of Excellence Lecture, Florida State University (2007)

NEW PROJECTS FOR THE YEAR AHEAD

The Plight of the Public Research University

An effort by the National Academies (and possibly the National Academy of Arts and Sciences) to understand and address the risk faced by public research universities as state support erodes and predatory pressures from wealthy private universities threaten quality and capacity.

A Policy Seminar on the State of the Public Research University

A graduate seminar (with Paul Courant and Edie Goldenberg) in the Ford School to explore through case studies the changing nature and challenges faced by public research universities, developed during the Fall Term and launched during the Winter Term.

Launching a new undergraduate course in Science, Technology, and Public Policy (with Homer Neal), now scheduled for Winter Term.

Leading a team to develop a federal energy R&D strategy for the next administration (Brookings Institution and National Academies)

Co-Chair of Glion VI Conference, "The Role of Research Universities in Innovation-Driven Economies", Switzerland, June 22-25, 2009

A visual history of the evolution of the western university in Europe, North America, and Asia

PUBLICATIONS

Books

James J. Duderstadt, *Engineering for a Changing World: A Roadmap to the Future of Engineering Practice, Research, and Education* (National Science Foundation Grant Report, 2007)

Luc Weber and James Duderstadt, eds., *The Globalization of Higher Education*, VI Glion Colloquium (Paris: Economica, 2008)

James J. Duderstadt, *The Michigan Roadmap, Redux: A Call for Leadership* (Ann Arbor, MI: Millennium Project, University of Michigan, 2008).

Major Reports

James J. Duderstadt, chair, *Appraising the Progress of the First Five Years: The National Academies Keck Futures Initiative, Report of the Five Year Review Panel*, National Academy of Sciences, June, 2008

Papers and Chapters

James J. Duderstadt, "Higher Education in the 21st Century: Global Imperatives, Regional Challenges, National Responsibilities, and Emerging Opportunities", *The Global University*, Glion VI Conference (Economica: Paris, 2008)

James J. Duderstadt, "The Navigation of Universities through a Flat World", Keynote Address, European University Association, Barcelona, Spain, March 25, 2008

James J. Duderstadt, "Aligning American Higher Education with a 21st Century Public Agenda", Briefing Paper for Conference on Examining the National Purposes of American Higher Education: A Leadership Approach to Policy Reform", Miller Center of Public Affairs and Association of Governing Boards of Universities and Colleges, June 8, 2008

Other Knowledge Resources

University of Michigan Faculty History Project (Millennium Project, Bentley Library, Duderstadt Center)

Millennium Project Website: <http://milproj.dc.umich.edu/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2007-2008

- June 19 VI Glion Colloquium, Glion, Switzerland
The Globalization of Higher Education
- June 28 Brookings Institution, Washington, DC
Energy and the Great Lakes Economy
- July 14 National Research Council Panel on Masters Degrees, Televideo
The Role of Professional Masters Degrees in Engineering
- July 20 CIC Meeting on Advanced Computing, Northwestern U, Evanston
Building the Great Lakes Petascale Initiative
- September 5 National Academies, UC-Irvine, Newport Beach, CA
Review of the National Academy Keck Futures Initiative
- September 11 Energy Systems Engineering Seminar, College of Engineering, UM
Energy Scenarios for a Sustainable World
- September 24 Florida State University – Pathways of Excellence Lecture
The 21st Century University: Challenges, Responsibilities and Opportunities
- September 27 NSF Awardees Conference, Washington, DC
Engineering for a Changing World: A Roadmap to the Future of Engineering Practice, Research, and Education
- October 22 AAU Fall Meeting, UC Irvine, California
Opportunities for AAU Leadership: Suggestions from an AAU Ghost
- October 23 WIMS/ERC Industrial Advisory Board, UM
New Research Paradigms and Partnerships for a Global, Knowledge-Driven Economy
- November 9 Massachusetts Institute of Technology, Cambridge
The Future of Engineering Practice, Research, and Education: A 21st Century Flexner Report
- November 13 Iowa State University
“Globalization” course via webcast
- February 10 NACUBO Thought Leader Program: Keynote Address, Tampa
Challenges and Opportunities Facing American Higher Education
- February 22 STEMM Summit – University of Toledo, Toledo, OH
Nurturing the STEM of the Economic Transformation of the Great Lakes States
- February 27 Global Midwest Initiative, Chicago, IL
Igniting the Great Lakes Knowledge Economy

- March 4 NRC Division Committee on Policy & Global Affairs, DC
Scoping the Study of the U.S. Research Ecosystem
- March 20 NSF Roundtable on Engineering Education, Washington, DC
Rethinking the Engineering PhD
- March 27 European University Association, Barcelona, Spain
Keynote Address: University Leadership and Governance in a Changing World.
- April 17 ASME Global Summit on the Future of Higher Education, Washington, DC
The Future World of Engineering—Critical Knowledge and Competencies
- April 21 Council on Library and Information Resources, Washington, DC
Possible Futures for the Research Library
- April 29 National Academics Rising Above the Gathering Storm Convocation, Washington, DC
Section Leader: State Strategies
- April 30 Executive Leadership Institute, Ross School of Business, UM
Leadership in Nonprofit Institutions
- May 3 National Canadian Engineering Deans Council, Quebec City, CA
Transformations in Engineering Practice and Education
- May 8 Arizona State University, College of Engineering, Phoenix, AZ
Engineering for a Changing World
- May 9 Arizona State University, Phoenix, AZ
Honorary Degree/Commencement Address
- May 12 Ob/Gyn Strategic Planning Retreat, UM
Strategic Planning for Uncertain Futures
- May 15-16 NSF Advisory Committee on Cyberinfrastructure, Washington, DC
Chair of Spring Planning Meeting
- May 18 Franklin Olin College, Boston, MA
Commencement Address
- May 20 Georgia Tech 11th World Conference on Continuing Engineering Education
Engineering for a Changing World: The Future of American Engineering Practice, Research, and Education
- May 23 Chinese Leadership Forum, CRLT, UM
The Globalization of Higher Education
- May 23 MMPEI External Review Board, UM
The Next Energy Project of the Brookings Institution

- June 9 AGB Miller Center Symposium, U. Virginia, Charlottesville, VA
Aligning American Higher Education with a 21st Century Public Agenda
- June 12 IMS/GLC Summit, UM
Cyberinfrastructure and the Open Educational Resources Movement
- June 16 University of Missouri Strategic Planning Retreat, Columbia, MO
Strategic Planning for the MU System
- July 1 Department of Energy, Washington, DC
Assessing the DOE Long Range Plan for Nuclear Energy Research

THE MILLENNIUM PROJECT
UNIVERSITY OF MICHIGAN

2007 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

MAJOR NATIONAL AND INTERNATIONAL LEADERSHIP AND SERVICE ACTIVITIES

Chair, Cyberinfrastructure Advisory Committee, National Science Foundation
(2006 - 2009)

Chair, Presidential Search Committee, National Academy of Engineering (2005-
2006)

Co-Chair, Glion Colloquium (EU-US-Asia consortium of university presidents
and corporate leaders, which meets every two years in Glion: next
meeting: Switzerland; June 2007: The Globalization of Higher Education)

Chair, Review Committee for the Keck Futures Initiative, National Academies
(2007-2008)

Commissioner, Secretary of Education's Commission on the Future of Higher
Education (2005-2007)

Member, Association of Governing Boards Task Force on the State of the
University Presidency (2005-2007)

Member, Intelligence Science Board (U.S. Director of National Intelligence) (2007-
2010)

UNIVERSITY LEADERSHIP ACTIVITIES

Co-Director, Science, Technology, and Public Policy Program, Gerald R. Ford
School of Public Policy

Chair, Michigan Energy Research Council

Chair, "Virtual Search Committee" for senior faculty in energy policy and science
policy

OTHER SERVICE ACTIVITIES

Member, Advisory Committee, New Economy Initiative for Southeastern Michigan (2006- present)

Member, Detroit Renaissance Team (2006 -2007)

Member, Michigan's Defining Moment Public Engagement Campaign (2007 -)

Member, Executive Council, American Association for the Advancement of Science (2006 -)

Director, Unisys Corporation (1990 -)

INSTRUCTIONAL ACTIVITIES

Leadership of effort to create new Science, Technology, and Public Policy program, including new graduate concentration program, faculty recruiting, and fund-raising.

PP 754: "Issues in Science, Technology, and Public Policy" A new graduate course in research topics in STPP for PhD candidates (82 students enrolled)

U 350 (LS&A) – PP 350 (Ford School): "Science, Technology, Public Policy, and Informed Citizenship in a Global, Knowledge-Driven Society" (under development for Fall Term-2007)

EXTERNALLY FUNDED ACTIVITIES

"21st Century Engineering: A Roadmap to the Future", National Science Foundation, \$250,000 for 3 y (JJD PI) (2004 – 2007)

"Science, Technology, and Public Policy Postdoctoral Fellowship Program", Dow Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

PUBLICATIONS

Books

James J. Duderstadt, *The View from the Helm: Leading the American University During an Era of Change* (University of Michigan Press: Ann Arbor, 2007)

Anne M. Duderstadt, *The University of Michigan: A Photographic Saga* (Millennium Project, The University of Michigan: Ann Arbor, 2006)

Major Reports

James J. Duderstadt, *Engineering for a Changing World: A Roadmap to the Future of Engineering Practice, Research, and Education* (National Science Foundation Grant Report, 2007)

National Commission on the Future of Higher Education in America, *A Test of Leadership: Charting the Future of U.S. Higher Education* (Washington: U.S. Department of Education, 2006)

Task Force on the State of the University Presidency, *The Leadership Imperative* (Washington: Association of Governing Boards, 2006)

Papers and Chapters

James J. Duderstadt, "Fixing the Fragmented University: A View from the Bridge", in *The Fragmented University: Decentralization with Direction*, Edited by Joseph Burke (Bolton, MA: Anker Publishing Co., 2007) pp. 49-69

James J. Duderstadt, "Higher Education in the 21st Century: Global Imperatives, Regional Challenges, National Responsibilities, and Emerging Opportunities", *The Global University*, Glion VI Conference (Economica: Paris, 2007) in press

Other Knowledge Resources

Anne Duderstadt and James Duderstadt: University of Michigan History
Website: <http://umhistory.org/>

James Duderstadt, Millennium Project Website: <http://milproj.dc.umich.edu>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2006-2007

- July 10 National Meeting on Engineering Mechanics, Ann Arbor
"Rising Above the Gathering Storm"
- September 11 The Research Library in the 21st Century, UT Austin
"The Library as IT's Poster Child"
- September 14 Irish American Higher Ed Forum, Washington, DC
"National Commission on Future of Higher Education: An Update"
- September 25 U.S. Association for Energy Economics, Ypsilanti
"U.S. Energy Challenges and Opportunities"
- September 28 National Academies Forum on RAGs for the States, Washington
"RAGS, NCFHE Implications for the States"
- October 3 SAKAI Forum, Lansing Community College
"Open Source, Open Content, and Open Learning Futures"
- October 4 Future of Engineering Workshop (Chair), UM
"Flexner Study of Engineering"
- October 5 Briefing of APG, UM
"Spellings Commission"
- October 10 Briefing of EOs, UM
"Spellings Commission"
- October 11 NAS Government-Industry-University Research Roundtable, DC
"Spellings Commission"
- October 12 ENG 110 Lecture, UM
"Future of Engineering"
- October 14 SI 10th Anniversary Celebration, UM
"The Birth of a New Professional School"
- October 24 American Nuclear Society Forum, Washington
"DOE University Programs"
- October 27 CoE Alumni Energy Panel
"Energy for the Future"
- October 31 ACCI Meeting, NSF, Washington
"The NSF Cyberinfrastructure Effort: Next Steps"
- November 2 Higher Learning Commission, Dearborn Hyatt
"Accrediting the University of the Future"
- November 6 Salzburg Seminar, Globalization of Higher Education, Austria

“Higher Education in the United States”

November 14	UC 200 Lecture, UM “Building a Sustainable World”
November 16	Briefing to COSEPUP – via conference call “Spellings Commission”
November 16	MERIT 40 th Anniversary “Look Back at Unanticipated Consequences”
November 20	Briefing to SACUA, UM “Spellings Commission”
November 28	Psych 121 Lecture, UM “College Athletics”
December 1	MIT Conference on Learning Without Barriers, Cambridge “Universal Access to Knowledge and Learning”
December 8	Ed 761 Lecture, UM “The Spellings Commission”
January 11	Internet2 All-Staff meeting “Cyberinfrastructure and the Role of NSF”
January 12	UM CSHPE 50 th Anniversary Conference, Ann Arbor “The Future of the University”
January 17	Michigan State University “The Future of the University”
January 23	PP754 Lecture, UM “Education in the Global, Knowledge Economy”
February 13	PP754 Lecture, UM “The Future of Nuclear Power”
February 14	UM Energy Symposium “The Role of Energy in the Future of the Great Lake States”
February 22	Northeastern University, Boston “The Future of the University: A View From the Oort Cloud”
February 26	University of Hartford, Connecticut Technology Strategic Planning
March 5	Association of Governing Boards, Phoenix “Spellings Commission and AGB Task Force”
March 6	DeLange Conference on Emerging Libraries, Rice, Houston “The Library As the Poster-Child for the University’s Future”

- March 15 Knight-Wallace Fellows, UM
"Nuclear Power in the 21st Century: Renaissance or Reformation"
- March 28 UM Taubman Medical Library Diversity Lecture
"The Michigan Mandate: Looking Back and Looking Forward"
- March 31 100th Anniversary of Mechanical Engineering at Caltech
"The Future of Engineering Practice, Research and Education"
- April 12 Great Lakes Colleges Association, Kalamazoo
"Liberal Education for a Knowledge Society"
- May 6-7 Olin College President's Council
"The Future of American Engineering"
- May 10 NSF 5XME Workshop
"Reinventing Engineering for the 21st Century"
- May 11 Chicago Council on Global Affairs, Midwest Media Project
"The Great Lakes Region: Change, Challenge, and Opportunity"
- May 20 University of Michigan Conference on STEM Education
"The Importance of STEM Education to Economic Prosperity"
- June 5 Great Lakes College Association Faculty Meeting
"Higher Education in the 21st Century"
- June 19 Glion VI Conference, Switzerland
"Higher Education in the 21st Century: Global Imperatives, Regional Challenges, National Responsibilities, and Emerging Opportunities"

THE MILLENNIUM PROJECT
UNIVERSITY OF MICHIGAN

2006 ANNUAL REPORT TO THE PROVOST

JAMES J. DUDERSTADT

INTRODUCTION

The Millennium Project at the University of Michigan is a research center engaged in both the study and creation of the future through over-the-horizon technologies. Located in the Duderstadt Center, the Millennium Project provides a platform for exploring the impact of advanced technology on social institutions, ranging from nation-states to governments and industry to the university itself. In some ways, the Millennium Project is the analog to a corporate R&D laboratory, an incubation center, where new paradigms can be developed and tested. Rather than being simply a “think-tank”, where ideas are generated and studied, the Millennium Project is a “do-tank”, where ideas lead to the actual creation of working models or prototypes to explore possible futures.



The Millennium Project in the Duderstadt Center

The Millennium Project also serves as a platform for an array of activities associated with my role as President Emeritus and University Professor of Science and Engineering, an appointment that allows me to teach, participate in scholarship, and stimulate activities throughout the University. During its first several years, the Millennium Project was supported primarily through University funding (expiring in 2001) at a level of roughly \$300,000 per year (together with the funding of a secretary and my own appointment as President Emeritus). During this period the Millennium Project provided a platform for the creation of the State of Michigan's first virtual university, the Michigan Virtual Automotive College (which I served as startup president) and then later the early phase of the Michigan Virtual University. It also provided support for an array of instructional and research activities concerning the future of the university, involving several UM schools and colleges (LS&A, Public Policy, Engineering, Education, Information, Residential College) as well as external organizations (National Academies, National Center for Postsecondary Improvement, National Science Foundation, and the One Dupont Circle group of national education organizations), including my chairing several major national studies (e.g., the NAS study of the Impact of Information Technology on the Future of the Research University and various COSEPUP studies on federal research policy). It provided as well a platform for my continued involvement in scientific work (e.g., chairing the Nuclear Energy Research Advisory Committee of the Department of Energy and various NSF projects).

In more recent years, the Millennium Project has been predominantly supported from external funding (aside from \$50,000 per year of flexible funding from the Provost and the support of my base appointment as Emeritus President). In particular, we have had a major grant from the Atlantic Philanthropies Foundation (\$890,000) and several grants from the National Science Foundation (totaling \$510,000) that have enabled us to work on several projects of particular interest (e.g., developing regional "roadmapping" strategies for the implementation of technology in education and developing new visions of engineering education, research, and practice). We have also attracted grants from nonprofit foundations to support new University activities (e.g., \$610,000 from the Dow Foundation to support postdoctoral students in the new Science, Technology, and Public Policy). Furthermore, several of my external activities have been supported by additional grants channeled through the National Academies or other organizations (e.g., the IT Forum, the COSEPUP Committee on Federal Science and Technology Policy, and the Great Lakes Regional Economic Development project).

MAJOR ONGOING PROJECTS

The Impact of Exponentiating Technologies on Society

The Millennium Project has been heavily involved in activities exploring the impact of disruptive technologies such as info-nano-bio technology that evolve exponentially (e.g., Moore's Law). Working through the National Academies, we have led a major effort (the IT Forum) to assess the impact of information and communications technologies on knowledge-intensive organizations such as research universities, corporate R&D laboratories, and national laboratories. Many of these activities will continue through the National Science Foundation and other federal agencies with Dan Atkin's appointment as first director of NSF's new cyberinfrastructure division and my role as chair of the NSF Cyberinfrastructure Advisory Committee.

The Future of the University

The Millennium Project continues to be actively involved in studies concerning the future of higher education in general and the research university in particular. These have been coordinated with both national efforts (National Academies, ACE, AAU, NASULGC, AGB, Educause), international groups (the Glion Colloquium, OECD), and regional efforts (e.g., Michigan, Ohio, North Carolina, Texas, California, Missouri). Of particular note here are my roles as a member of both the Secretary of Education's Commission on the Future of Higher Education (the Spellings Commission) and the Association of Governing Boards' Task Force on the State of the University Presidency.

National Science Policy

I continue to be heavily involved in national science and technology policy. In particular, during the past year I have chaired a major blue ribbon study by the National Academy of Engineering concerning the federal investment necessary to sustain the nation's technological leadership (a precursor to the "Gathering Storm" report and the American Competitiveness Initiative); a subcommittee of the National Academy's Committee on Science, Engineering, and Public Policy concerned with measuring performance in basic research and working closely with the Office of Management and

Budget; and serving on the guidance committees for studies of Interdisciplinary Research and Major Scientific Facilities.

UM Science, Technology, and Public Policy

We have made very considerable progress in building the new Science, Technology, and Public Policy program, centered in the Ford School but involving students and faculty from across the University. This spring the Rackham Executive Board approved the offering of our new STPP graduate certificate program, based on a five-course sequence developed over the past two years. We have received a \$610,000 grant from the Dow Foundation to support a STPP postdoctoral program over the next five years, which will add to our capacity to expand both instructional and research activities (including both the introduction of an undergraduate course and Washington-based internships). We are now seeking major endowment through the Michigan Difference Campaign to fund a senior faculty chair in STPP. (I will continue to serve as co-director of this program until another senior faculty member can be recruited.)

University of Michigan Energy Research Initiatives

After serving the past two years as chair of both a committee exploring major energy research activities as well as the executive committee of the Michigan Memorial Phoenix Project, I have merged these committees into a university-wide Michigan Energy Research Council. The first task of this new body has been to develop a plan for creating the Phoenix Memorial Energy Institute as an umbrella organization to coordinate and promote the University's energy research activities (already conducted at a level of \$35 million per year). Working closely with VPR Forrest, a multiple-year plan has been developed for building upon the renovated Phoenix Memorial Laboratory and a combination of state, federal, and private support to position the University as a leader in multidisciplinary research in energy sciences, applications, and policy, with particular emphasis on transportation applications.

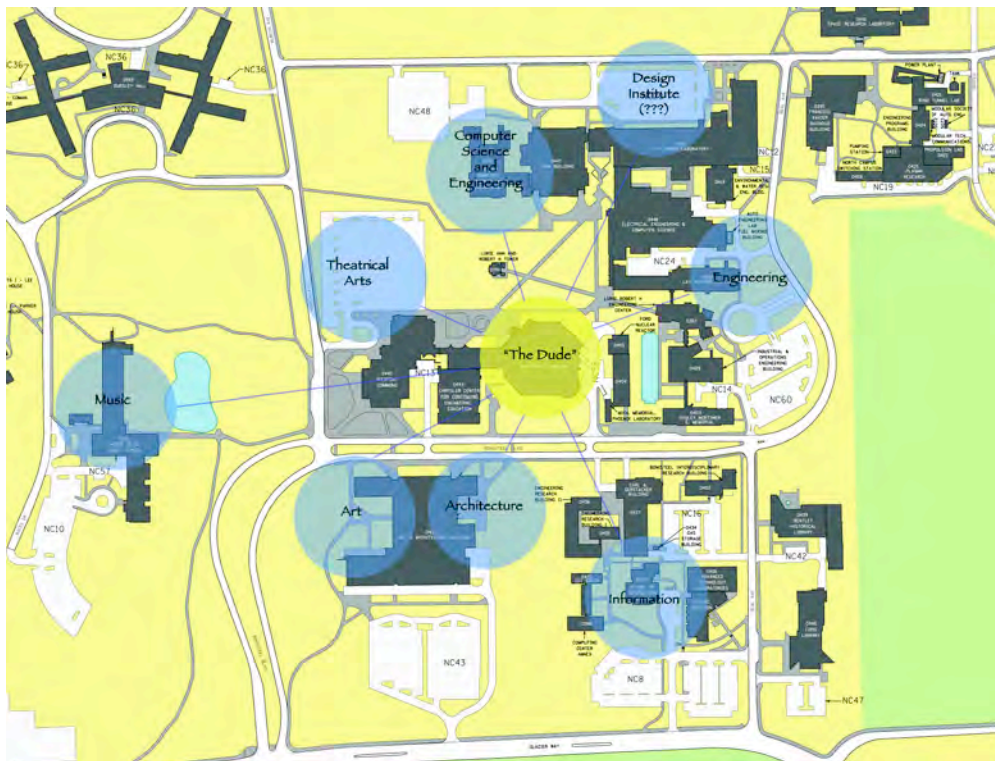
Regional Strategies for a Global, Knowledge-Driven Society

Our regional economic development studies aimed at developing strategies for building the workforce and knowledge infrastructure necessary to complete in a global, knowledge-driven society and culminating in The Michigan Roadmap, has triggered a

great deal of interest not only within Michigan but in other states and nations. A broader activity involving the multiple-state Great Lakes region is moving ahead, working with the Brookings Institution. There has been interest expressed in such road-mapping efforts at the international level (Ontario, OECD, and the EU).

The daVinci Project: Creativity, Invention, and Innovation

The North Campus of the University has a formidable concentration of academic programs characterized by the common intellectual activities of creativity, invention, and innovation (e.g., art, architecture, music, engineering, information technology, and design), along with unique commons facilities such as the Duderstadt Center, the Chrysler Center, and the Pierpont Commons. The presence of the Walgreen Center for Performing Arts will significantly enhance the character of this academic constellation, once referred to by the North Campus deans as the Renaissance Campus.



With the growing priority of the nation given to innovation as the key competency required for economic prosperity and national security in a “flat world”, it seems natural to undertake a major effort to better integrate and support joint efforts among these

academic units. The Millennium Project continues to support multidisciplinary student innovation projects (Project Inspire).

The Michigan History Project

Largely stimulated by Anne Duderstadt's strong interest in the history of the University of Michigan, we have launched a number of projects designed both to better document and elevate the awareness of the important role that the University has played throughout its history. This spring two new volumes went to press and are scheduled for fall publication: *A Pictorial History of the University of Michigan* (Anne Duderstadt), and *Ten Years Before the Mast: Navigating the University through Stormy Seas*, a semi-autobiographical analysis of university leadership. In addition, we are nearing completion of a new website on the history of the University campus (<http://umhistory.org/>), including a description of the evolution of every building on the UMAA campus, 3-D simulations of the campus at various points in its history, and navigable virtual reality simulations of the campus at 25 year intervals. In addition the website will contain linkages to thousands of images and references concerning the University's history of possible interest to students.

A Society of Learning

The emerging "perfect storm" of globalization, knowledge economies, demographics, and disruptive technologies has stimulated a growing recognition of the critical importance of lifelong learning in securing economic prosperity, national security, and social well-being. In today's "flat world" (a la Friedman), democratic societies—and state and federal governments—must accept the responsibility to provide their citizens with the educational and training opportunities they need, throughout their lives, whenever, wherever, and however they need it, at high quality and at affordable costs. This will be a major theme for the year ahead, at the state, federal, and international level (and will likely give rise to major recommendations concerning the topic of lifelong learning in the final report of the Secretary of Education's Commission on the Future of Higher Education).

MAJOR NATIONAL LEADERSHIP AND SERVICE ACTIVITIES

- Chair, National Academies IT Forum, a Government-Industry-University Research Roundtable committee concerned with the implications of rapidly evolving information technology for the future of the nation's research universities (2000-2005)
- Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2006)
- Chair, National Academy of Engineering-NSF Study of United States Engineering Research Capacity (2004-2006)
- Chair, Cyberinfrastructure Advisory Committee, National Science Foundation (2006 -)
- Chair, Presidential Search Committee, National Academy of Engineering (2005-2006)
- Co-Chair, Glion Colloquium (EU-US consortium of university presidents and corporate leaders, which meets every two years in Glion, Switzerland; June 2005: University-Business Partnerships; June 2007: The Globalization of Higher Education)
- Member, Secretary of Education Commission on the Future of Higher Education (2005-2006)
- Member, Association of Governing Boards Task Force on the State of the University Presidency (2005-2006)
- Member, University of California Task Force on Compensation, Accountability, and Transparency, UC Board of Regents (2005-2006)

UNIVERSITY LEADERSHIP ACTIVITIES

- Chair, Science, Technology, and Public Policy Program, Gerald R. Ford School of Public Policy
- Chair, Michigan Energy Research Council (resulting from the merger of the Hydrogen Initiatives Committee and the Executive Committee of the Michigan Memorial Phoenix Project)

OTHER SERVICE ACTIVITIES

- Chair, National Academies Workshop on OMB Performance Assessment Ratings Tool (PART) with Federal Agencies (2004 -)

- Member, Tulane University Post-Katrina Planning Team (2005-2006)
- Member, Kansas City Project Team (develop a strategic plan for higher education in Kansas City) (2005-2006)
- Member, China Higher Education Project, Jiangsu Province (Nanjing) (2006 -)
- Member, Harrington Fellows Advisory Board, University of Texas (2000-2006)
- Director, The Michigan Roadmap Project (developing a plan for the future of higher education in Michigan together with state leaders) (2003 -)
- Member, Great Lakes Project (working with Ford School and Brookings Institution to develop a regional strategy for the future of the Great Lakes states) (2005 -)
- Member, Scientific Advisory Panel, National Center for Atmospheric Research (2001 -)
- Member, Visiting Committee, MIT Department of Nuclear Engineering (2001 -)
- Member, Visiting Committee, Georgia Institute of Technology (2003 -)
- Member, Executive Council, American Association for the Advancement of Science (2006 -)
- Director, Unisys Corporation (1990 -)

INSTRUCTIONAL ACTIVITIES

- Leadership of effort to create new Science, Technology, and Public Policy program, including new graduate concentration program, faculty recruiting, and fund-raising.
- PP 754: "Issues in Science, Technology, and Public Policy" A new graduate course in research topics in STPP for PhD candidates (82 students enrolled)

EXTERNALLY FUNDED ACTIVITIES

- "Education in the Digital Age: Leadership, Linkages, and Roadmaps"
Atlantic Philanthropies Grant to UM, \$890,000 for 3 y (JJD PI) (2001 – 2004)
- "Choosing the Future: Information Technology and the Research University"
Atlantic Philanthropies Grant to National Academy of Sciences,

\$1.5 M for 3 y (JJD Co-Director)) (2001 – 2004)

“21st Century Engineering: A Roadmap to the Future”, National Science Foundation, \$250,000 for 2 y (JJD PI) (2004 – 2006)

“Science, Technology, and Public Policy Postdoctoral Fellowship Program”, Dow Foundation (\$610,000) (JJD Co-PI) (2006 – 2011)

Millennium Project Activities, Greater Kansas City Community Foundation (\$42,500) (JJD PI) (2005 – 2006)

PUBLICATIONS

Books

- James J. Duderstadt, *Ten Years Before the Mast: Navigating the University through Stormy Seas* (University of Michigan Press: Ann Arbor, 2006) (in press)
- Luc Weber and James Duderstadt, eds., *Universities and Business: Partnering for the Knowledge Economy*, Glion V Conference (Econometrica: Paris, 2006)
- Anne M. Duderstadt, *Michigan Through the Seasons* (Millennium Project, The University of Michigan: Ann Arbor, 2005) (with photographic work by JJD)
- Anne M. Duderstadt, *A Pictorial History of the University of Michigan* (Millennium Project, The University of Michigan: Ann Arbor, 2006) (in press)

Major Reports

- James J. Duderstadt, chair, *Engineering Research and America's Future: Meeting the Challenges of a Global Economy* (National Academy Press: Washington, D.C., 2005)
- James J. Duderstadt, *A Roadmap to Michigan's Future: Meeting the Challenges of a Global, Knowledge-Driven Economy, A Technology Roadmapping Exercise* (Millennium Project, the University of Michigan: Ann Arbor; 2005)
- Benno Schmidt, James J. Duderstadt, et. al., *A City of Promise: The Future of Higher Education in Kansas City* (KC Futures Task Force, 2005)
- James J. Duderstadt, et. al., "Cyberinfrastructure", A Special Issue of *Issues in Science and Technology*, Vol. XXII, No. 1 (National Academies Press, Washington, 2005)
- Joanne Kosberg, Robert Hertzberg, James J. Duderstadt, et. al., *University of California Task Force on Compensation, Accountability, and Transparency* (University of California Regents, Oakland, 2006)
- James J. Duderstadt, *A Framing Document for the Work of the Commission* (2005); *The Working Draft of the Quality Subcommittee*, Secretary of Education's Commission on the Future of Higher Education (2006) (Department of Education, Washington, DC)

Papers and Chapters

- James J. Duderstadt, Wm Wulf, and Robert Zemsky, "Envisioning a Transformed University", *Issues in Science and Technology*, Vol. XXII, No. 1 (National Academies Press, Washington, 2005) pp. 35-41
- James J. Duderstadt, "The Future of Higher Education in the Knowledge-Driven,

¹ Many of these publications are available on our website:
<http://milproj.dc.umich.edu/>

Global Economy of the 21st Century”, in *Creating Knowledge, Strengthening Nations: The Changing Role of Higher Education*, Ed. Glen A. Jones, Patrician L. McCarney, and Michael Skolnik (University of Toronto Press, Toronto, 2005) pp. 81-101.

James J. Duderstadt, “Fixing the Fragmented University: A View from the Bridge”, in *The Fragmented University*, Edited by Joseph Burke (In Press)

James J. Duderstadt, “University-Industry-Government Partnerships for a 21st Century Global, Knowledge-Driven Economy: An American Perspective”, *Universities and Business: Partnering for the Knowledge Economy*, Glion V Conference (Econometrica: Paris, 2006) pp. 19-29

James J. Duderstadt, “University-Business Partnerships for a Knowledge Society”, *Universities and Business: Partnering for the Knowledge Economy*, Glion V Conference (Econometrica: Paris, 2006) pp. 281-297.

Other Knowledge Resources

Anne Duderstadt and James Duderstadt: University of Michigan History Website:

<http://umhistory.org/>

Anne Duderstadt, Mort’s Map: A Research Tool for Historians of University History:

<http://umhistory.dc.umich.edu/mort/>

LECTURES, ADDRESSES, AND PRESENTATIONS, 2005-2006²

- September 19 Conference of University Alumni Directors, Ann Arbor
"Financing Higher Education"
- September 30 UM EECS Dinner for George Haddad, Ann Arbor
"Remarks"
- October 6 Distinguished Lecture Series, Penn State University, State College
"Rebooting the Civilian Nuclear Power Program in the U.S."
- October 6 Penn State University, State College
"The Future of Public Higher Education in America"
- October 10 Great Lakes Strategy Meeting, Henry Ford Museum, Dearborn
"Building a Knowledge Economy in the Great Lakes States"
- October 27 Ford School Class on Public Policy, UM, Ann Arbor
"The Michigan Roadmap"
- November 2 Federal Research Bank of Chicago Summit, Chicago
"Building a Knowledge Society"
- November 10 UM College of Engineering Visiting Committee
"Energy Research at Michigan"
- November 15 National Action Committee for Minorities in Engineering, Washington
"Diversity in the Science and Engineering Workforce"
(Acceptance of Reginald Jones Award)
- November 16 UM Executive Officers Briefings
State and national initiatives
- November 17 NSF Engineering Research Center 20th Year Meeting, Washington
"Discovery-Innovation Institutes"
- November 18 Long-Range Planning Team, University of California, Berkeley
"Renegotiating the California Master Plan"
- November 21 Higher Education Administration Class, UM, Ann Arbor
"The National Commission on the Future of Higher Education"
- November 22 Eng 110 Class, Ann Arbor
"The Future of the Engineering Profession"
- November 23 Medical School, UM, Ann Arbor
"The Future of the Medical Profession"
- November 29 Association of Governing Boards Task Force Meeting

² Many of these publications are available on our website:
<http://milproj.dc.umich.edu/>

- "The State of the Academic Presidency"
- December 14, UM Buildings and Grounds Breakfast
"The Importance of Staff to the University of Michigan"
- January 12 Chemistry PhD Seminar, UM Ann Arbor
"The Future of the University: A View from the Oort Cloud"
- January 24 Goldwater Institute, Phoenix
"New Financing Paradigms for Higher Education"
- January 25 Association of Governing Boards Meeting, Phoenix
"Higher Education for the Public Good"
- February 2, Spellings Commission, San Diego
"Quality Objectives for Higher Education"
- February 7 Spellings Commission Hearings, Seattle
"Future of Higher Education in America"
- February 15 Ann Arbor Rotary Talk
"A Roadmap for Michigan's Future"
- February 16 Eng 110, UM, Ann Arbor
"Engineering for the 21st Century"
- February 28 Teleconference lecture to Iowa State Conference, Ames
"The Imperatives of Globalization"
- March 8 Digital Revolution Seminar, UM, Ann Arbor
"New Educational Paradigms"
- March 14 Ford School Conference on the Future of Michigan, Ann Arbor
"The Role of Higher Education in the Knowledge Economy"
- March 20 Spellings Commission Hearings, Boston (chair)
"The Future of Higher Education in America"
- March 23 Engineering for Community, UM Class, Ann Arbor
"Globalizing Engineering Practice"
- March 24 Midwest Biomedical Engineering Conference, Ann Arbor
"The Role of Research in America's Future"
- April 5 Kansas City Chamber of Commerce Conference, Kansas City
"A Future Vision for the Greater Kansas City Region"
- April 6 Spellings Commission, Indianapolis
"Do No Harm!"
- April 8 Committee on Institutional Cooperation Meeting, Ann Arbor
"The National Commission on the Future of Higher Education"

- April 17 National Academy of Engineering Regional Meeting, Ann Arbor
"The Future of Automotive Technology"
Meeting Chair
- May 8 Convocation of NAE and Engineering Professions, DC
"Engineering Research and America's Future"
- May 10 NCAA Leadership Committee, Dallas
"Governance and Leadership in College Sports"
- May 15 Olin College of Engineering, Boston
"The Future of Engineering Education"
- May 18 Spellings Commission, DC
"Findings and Recommendations"
- May 25 Roundtable on 21st Workforce, Lansing
"Michigan's Future as a Knowledge Economy"
- May 27 China University Leadership Forum, UM
"The Future of Higher Education in America"
- June 6 Frye Institute, Emory University, Atlanta
"A University for the 21st Century"
- June 12 AGB Task on the State of the University Presidency, DC
"Findings and Recommendations"
- June 15 Cyberinfrastructure Advisory Committee, NSF, DC
(Chair)
- July 10 National Meeting on Engineering Mechanics, Ann Arbor
"Welcome"
- September 11 The Research Library in the 21st Century, UT Austin
"The University Library: IT's Poster Child"
- September 25 U.S. Association for Energy Economics, Ann Arbor
"Sustainable Energy Futures: Myths and Realities"

Activities Summary (2004-2005)
James J. Duderstadt

Major National Leadership Activities:

Chair, National Academies IT Forum, a Government-Industry-University Research Roundtable committee concerned with the implications of rapidly evolving information technology for the future of the nation's research universities (2000-2005)

Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2005)

Chair, National Academy of Engineering-NSF Engineering Study of Importance of Engineering Research to National Economy (2004-2005)

Co-Chair, Glion Colloquium (a group of two-dozen university presidents from Europe and the United States that meets every two years in Glion, Switzerland, to consider major issues of importance to the Future of the research university) (June, 2005)

Member, CSIS-NAS Roundtable on Scientific Communication and National Security

University Leadership Activities

Chair, Science, Technology, and Public Policy Implementation Team, University of Michigan (Developing and teaching STPP curriculum, recruiting first faculty, leading Rackham certification process)

Chair, Hydrogen Initiatives Team, University of Michigan (Leading a team to develop a sequence of proposals for new federal and University programs in hydrogen-based energy sources)

Chair, Michigan Memorial Phoenix Project Executive Committee (repurposing MMPP following decision to decommission Ford Nuclear Reactor)

Other Service Activities

Chair, National Academies Workshop on OMB Performance Assessment Ratings Tool (PART) with Federal Agencies; Followup Work for OMB on Assessing Research Content of DHS, NNSA, and DOD 6.3 Budgets

Chair, WASC Accreditation Team, UC-Santa Cruz (leading both Institutional Capacity and Educational Effectiveness Reviews)

Member, Kansas City Project Team (developing a strategic plan for building an AAU-class research university in Kansas City)

Consultant, State of Ohio (working with Governor and key community leaders to develop a plan for the future of higher education in Ohio)

Consultant, University of North Carolina (working with leadership to develop strategies for strengthening UNC)

Director, The Michigan Roadmap Project (developing a plan for the future of higher education in Michigan together with state leaders)

Member, Great Lakes Project (working with Ford School and Brookings Institution to develop a regional strategy for the future of the Great Lakes states)

Other Continuing Activities:

National Academies Committees:

NAS Roundtable on National Security and Scientific Communication (2003 -)

COSEPUP Steering Committees:

NSF Major Facilities Programs (2002 - 4)

Interdisciplinary Research (2003 - 2005)

Research Activities of the States (2003 -)

The Glion Group

Joint American-European Conference on Higher Education (1998-2005)

(Co-chair of Glion IV and Glion V)

National Center for Atmospheric Research

Advisory Committee (2001 - 2006)

MIT Department of Nuclear Engineering

Visiting Committee (2001 - 2006)

Georgia Tech

Visiting Committee (2002-2005)

Director, Unisys Corporation

Instructional Activities:

UC 375: "The University of Michigan: Past, Present, Future"

A course for upper division LS&A students using the University of Michigan as a case study of how social institutions both are shaped by and influence their social environments (80 students enrolled)

PP 754: "Issues in Science, Technology, and Public Policy"

A new graduate course in research topics in STPP for PhD candidates (72 students enrolled)

Curriculum planning and development for graduate concentration in
Science, Technology, and Public Policy

Sponsored Research Activities:

“Education in the Digital Age: Leadership, Linkages, and Roadmaps”
Atlantic Philanthropies Grant to UM, \$890,000 for 3 y (JJD PI)

“Choosing the Future: Information Technology and the Research University”
Atlantic Philanthropies Grant to National Academy of Sciences,
\$1.5 M for 3 y (JJD Co-Director))

“21st Century Engineering: A Roadmap to the Future”, National Science
Foundation, \$250,000 for 2 y (JJD PI)

“Building a Global Cyberinfrastructure for Science and Engineering Research
and Education: Stakeholder Conversations”, submitted to the National
Science Foundation, \$1.8 million for 3 years (pending) (DEA and JJD
co-PIs)

Publications: Books

James J. Duderstadt, *Ten Years before the Mast: Navigating the University
Through Stormy Seas* (Ann Arbor: University of Michigan Press, 2006)
In press.

Publications: Papers and Major Reports

James J. Duderstadt, Chair, National Academy of Engineering Task Force Report,
Assessing the Capacity of the U.S. Engineering Research Enterprise
(National Academy Press, Washington, D.C., 2005)

James J. Duderstadt, *The Future of Higher Education in Michigan in a Global,
Knowledge-Driven Economy: A Technology Roadmapping Exercise*
(Millennium Project, Ann Arbor, 2005), Sponsored by Atlantic
Philanthropies

James J. Duderstadt, “The Future of Higher Education in the Knowledge-Driven,
Global Economy of the 21st Century”, in *Creating Knowledge,
Strengthening Nations: The Changing Role of Higher Education*, Ed.
Glen A. Jones, Patrician L. McCarney, and Michael Skolnik
(University of Toronto Press, Toronto, 2005) pp. 81-101.

*Lectures, Presentations, and Workshops**

- September 1-2, MIT IT Summit, Cambridge, MA
Strategic Planning for IT
- September 10, J. Bernard Machen Inauguration, Keynote Address, Gainesville
The Future of Flagship Public Universities
- September 24, Computer Science and Engineering Colloquium, UM
Preparing for the Revolution
- October 7, National Science Policy Lecture, UM Course
Funding Across the Disciplines as Analyzed through FS&T
- October 8, ACE Seminar, Royster Harper, Ann Arbor, MI
Leading Universities during an Era of Change
- October 15, American Philanthropies Wrapup Meeting, New York
Update on IT Forum and Milproj
- October 20, Educause Keynote Address, Denver, CO
Preparing for the Revolution
- October 29, School of Information PhD Workshop, UM
Implications of a Knowledge-driven Society
- November 3, NSF ENG Advisory Committee, Washington
Update on the NAE Research Study
- November 9, NERS Career Day, UM
Preserving the Nuclear Option
- November 11, National Science Policy Lecture, UM
Globalization of Science
- November 11, UM Retirees Association, Ann Arbor, MI (3:15 pm)
An Institutional Saga for Michigan
- November 15, American Nuclear Society Plenary Session, Washington
Rebalancing the Federal R&D Budget
- November 19, Higher Education Administration Seminar, UM
The Michigan Roadmap
- November 23, Residential College, Class, UM
Global Energy Challenges
- December 14, Engineering 100, UM
Engineering for the 21st Century
- December 15, National Science Board, Washington
Human Capital Challenges for a Global, Knowledge Driven Economy

- January 12, OECD/CERI Project on University Futures, Washington
The 21st Century University
- January 24, IT Forum Workshop, Chapel Hill, NC
Strategic Planning for IT
- February 4, WASC Site Visit (Chair), UC Santa Cruz, California
Educational Effectiveness Review
- February 17, Keynote Address, NSF Grantee Meeting, Washington
The Future of Engineering Education
- February 21, Founder's Group of Engineering Societies, Washington
Assessing the Capacity of Engineering Research in the U.S.
- March 7, Engineering Deans Working Group, NSF, Washington
Assessing the Capacity of Engineering Research in the U.S.
- March 8, Keynote Address, Engineering Deans Conference, Washington
Assessing the Capacity of Engineering Research in the U.S.
- March 17, Engineering for Community, Class, UM
Engineering for a Sustainable World
- March 21, IT Forum Workshop, Austin, Texas
Strategic Planning for IT
- April 3, Association of Governing Boards, San Diego
The Future of the Public University
- April 5, Congressional Briefing, Washington
Assessing the Capacity of Engineering Research in the U.S.
- April 8, Emory Futures Group, Atlanta
The Future of the University
- April 14, Eng 110, UM Class
Engineering: Past, Present, and Future
- April 24, IT Forum Workshop, Beckman Center, Newport, CA
Strategic Planning for IT
- May 3, Greater Kansas City Community Foundation, Kansas City
The Future of Higher Education in Kansas City
- May 9, Biomedical Engineering Department, UM
The Future of Engineering Education
- May 11, Meeting with Governor Granholm and Legislative Leaders
The Michigan Roadmap
- May 13, Scientific Club, Ann Arbor
The Michigan Saga

- May 20, The University of Missouri, Columbia, MO
The Future of Higher Education in Missouri
- June 1, IT Forum, DC
Taking Stock of Four Years of ITFRU and IT Forum
- June 2, Columbus Leadership Group (including Governor Taft and Legislative leaders)
Strategic Positioning of Ohio in the Knowledge Economy
- June 6, Association of Governing Boards Summit Meeting, DC
The Privatization of Public Higher Education
- June 7-8, Responsive PhD Meeting, Woodrow Wilson, Princeton
The Implications of the IT Revolution for Graduate Education
- June 20, Glion V Colloquium, Switzerland
University-Industry-Government Partnerships for a 21st Century,
Knowledge-
Driven Economy: An American Perspective
- July 25, GRA-NTC Conference, Ann Arbor
Higher Education Futures in America

*For online versions of many of these presentations, see:

<http://milproj.dc.umich.edu/>

Activities Summary (2003-2004)
James J. Duderstadt

Major National Leadership Activities:

Chair, National Academies IT Forum, a Government-Industry-University Research Roundtable committee concerned with the implications of rapidly evolving information technology for the future of the nation's research universities (2000-2005)

Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2003) (charged with analyzing the White House Budget Request for R&D and developing policy recommendations for federal R&D investments)

Chair, National Academy of Engineering-NSF Engineering Study of Importance of Engineering Research to National Economy (preparing a "case statement" calling for greater federal investment in engineering research)

Co-Chair, Glion Colloquium (a group of two-dozen university presidents from Europe and the United States that meets every two years in Glion, Switzerland, to consider major issues of importance to the Future of the research university)

Member, CSIS-NAS Roundtable on Scientific Communication and National Security (a committee comprised of leaders from the scientific community, federal defense and intelligence agencies, and national security experts to mitigate the impact of homeland security concerns on the free flow of scientific exchange)

University Leadership Activities

Chair, Science, Technology, and Public Policy Implementation Team, University of Michigan (Developing the plan and taking the first steps toward implementing a new graduate program in STPP within the Ford School)

Chair, Hydrogen Initiatives Team, University of Michigan (Leading a team to develop a sequence of proposals for new federal and University programs in hydrogen-based energy sources)

Co-Chair (with Dan Atkins): World University Workshop (an ongoing discussion group of faculty from across the university exploring the converging themes of globalization, cyberinfrastructure

and knowledge creation)

Other Activities:

National Academies Committees:

Committee on Science, Engineering, and Public Policy (COSEPUP) (1997-2004)

NAS Roundtable on National Security and Scientific Communication (2003 -)

COSEPUP Committee on Foreign Students and National Security (2003 -)

COSEPUP Steering Committees:

NSF Major Facilities Programs (2002 - 4)

Interdisciplinary Research (2003 -)

Research Activities of the States (2003 -)

U. S. Department of Energy

Special Task Force on Scientific Research Priorities (2002 - 2004)

The Glion Group

Joint American-European Conference on Higher Education (1998-2003)

(Co-chair of Glion IV and Glion V)

National Center for Atmospheric Research

Advisory Committee (2001 - 2004)

MIT Department of Nuclear Engineering

Visiting Committee (2001 -)

Georgia Tech

Visiting Committee (2002-2005)

Director, Unisys Corporation

Director, CMS Energy Corporation

Honors and Awards:

George Herbert Walker Bush Leadership Award, Yale University (2003)

Distinguished Lecture Series, Arizona State University (2004)

Instructional Activities:

UC 375: "The University of Michigan: Past, Present, Future"

A new course for upper division LS&A students using the University of Michigan as a case study of how social institutions both are shaped by and influence their social environments (taught as part of the LS&A theme semester). (DVDs of lectures and digital materials available)

Sponsored Research Activities:

"Education in the Digital Age: Leadership, Linkages, and Roadmaps"

Atlantic Philanthropies Grant to UM, \$890,000 for 3 y (JJD PI)

"Choosing the Future: Information Technology and the Research University"

Atlantic Philanthropies Grant to National Academy of Sciences, \$1.5 M for 3 y (JJD Co-Director)

Publications: Books

James J. Duderstadt and Luc E. Weber, Eds, *Reinventing the Research University* (London: Economica, 2004) 254 pp.

James J. Duderstadt, *On the Move: A Personal History of Michigan's College of Engineering in Modern Times* (Ann Arbor: Millennium Project, University of Michigan, 2003) 152 pp.

James J. Duderstadt, *Intercollegiate Athletics and the American University: A University President's Perspective*, Paperback edition with New Epilogue (Ann Arbor, University of Michigan Press, 2003)

James J. Duderstadt, *Ten Years before the Mast: Navigating the University Through Stormy Seas* (Ann Arbor: University of Michigan, 2005)
In draft.

Publications: Papers and Other Publications

James J. Duderstadt and Robert Zemsky, "Reinventing the University: An American Perspective", in *Reinventing the University*, James J. Duderstadt and Luc E. Weber, Eds. (London: Economica, 2004) pp. 15-28.

James J. Duderstadt, "The Changing Nature of Research and the Future Of the Research University", in *Reinventing the University*, James J. Duderstadt and Luc E. Weber, Eds. (London: Economica, 2004) pp. 15-28.

James J. Duderstadt, "A Delicate Balance: Market Forces versus the Public Interest", in *Buying In or Selling Out?: The Commercialization of the American Research University*, Donald G. Stein, Ed. (New Brunswick: Rutgers University Press, 2004) pp. 56-74.

James J. Duderstadt, "Governing the 21st Century University: A View from the Bridge", in *Competing Conceptions of Academic Governance: Negotiating the Perfect Storm*, Willam G. Tierney, Ed. (Baltimore: Johns Hopkins University Press, 2004) pp. 137-157.

*Lectures and Presentations**

July 22, Society of University and College Planners, Keynote Address
Navigating the University through the Stormy Seas of a Changing World

July 31, Calvin College, meeting of Midwest Colleges
Information Technology and the Future of the University

August 19, Higher Education Policy Seminar, Michigan State University
Navigating the University

- August 27, University of North Carolina-Chapel Hill Executive Officer Retreat
The Future of the Public University
- September 4, Carnegie Mellon University, IT Forum
The Plug and Play Generation
- September 9, AAU Provost's Workshop, Newport Beach, CA
IT and the Future of the Research University
- October 1, Texas A&M University, Academic Convocation, College Station, TX
The Future of the Research University
- October 7, University Consortium on Atmospheric Research, Keynote, Boulder, CO
Future Trends in Scientific Research
- October 11, University of California, Santa Cruz
Education and the Research University
- October 16: Engineering Centennial Colloquium, University of Michigan
Engineering Education at Michigan: Past, Present, and Future
- October 17: The Smith Group, Ann Arbor
Campus Planning for Future Universities
- October 17: UM Geological Sciences Alumni Council
Future Trends in Scientific Research
- October 17: UM College of Engineering, Deans Panel Discussion
The History of the College of Engineering
- October 29: National Science Foundation, Washington, DC
Workshop on IT and Education
- November 11: Tulane Workshop on College Sports, New Orleans
A Call to Reason—But Will University Presidents Listen
- November 13: Marita Holland's Class on Learning Communities, UM
- November 17: NASULGC Annual Meeting, Provosts Keynote Address, New Orleans
IT and the Future of the University
- November 18: Higher Education Administration Class, Marv Peterson
University Leadership
- November 21: Yale University, New Haven, CN
The George Herbert Walker Bush Award Ceremony
- November 24: Higher Ed Leadership Class, Jan Lawrence
Presidential Leadership
- November 28: Canadian Provosts Conference, Televideo
The Future of the University

- December 1: University History Class, Nick Steneck
The Duderstadt Years
- December 8: AAHE Seminar, Washington, DC
Future Research Topics for Higher Education
- January 14: NSF Cyberinfrastructure Workshop
Summary of NAS IT-Forum Studies on Cyberinfrastructure
- January 15: Guest Lecture, History Course, LS&A
The Commercialization and Corruption of Big Time College Sports
- February 5: UC-Santa Cruz, California
Chair, WASC Accreditation Review
- February 16: Arizona State Distinguished Lecture Series, Phoenix
Future of Engineering Education
- March 12: IT Forum, Center for Creative Studies, Marina del Rey, California
Impact of IT on Entertainment and Gaming Industries
- March 16: Faculty Women's Club, Ann Arbor
Future of the University
- March 17, Introduction of Jack Marburger, Host
Seminar on Energy Policy
- March 17, Dinner Address, Imes-Moore Physics Colloquium
Diversity at the University of Michigan
- March 19: MU (aka Duderstadt Center) rededication
- March 23: Eng 490 Guest Lecture
The Future of Engineering Practice
- March 28: NSF Meeting on Human Resources, Plenary Address
The Challenge of Diversity in the post-Michigan Case World
- April 13: Eng 100 Guest Lecture
The Future of Engineering Education
- May 17, Hope College, Holland, Michigan
IT and Higher Education
- May 19, NSF ENG Advisory Board, Washington, D.C.
The Future of Engineering in the United States
- May 20, Ann Arbor Rotary, Ann Arbor
College Sports: Taming the Beast
- May 21, Plenary Address, World Wide Web Conference, New York
Higher Learning in the Digital Age

June 5, Class Reunion Weekend, Yale University
The Future of the University

June 15, ACE Network for Women's Leaders, Michigan State, East Lansing
Navigating the University

June 26, COSEPUP, National Academy of Sciences, Washington, D.C.
Performance Measurements for Basic Research

July 20: University of North Carolina Retreat, Chapel Hill, NC
The Privately-Supported Public University

*For online versions of many of these presentations, see:

<http://milproj.umm.umich.edu/>

Activities Summary (2002-2003)
James J. Duderstadt

Major National Leadership Activities:

Chair, *NERAC*, Nuclear Energy Research Advisory Committee, (1998-2003), reporting to the Secretary of Energy and managing a number of subcommittees: Long-Range Planning, DOE Research Infrastructure Roadmapping, Nuclear Nonproliferation Strategies, Transmutation of Radioactive Waste, Radioisotope Production and Research, Operating Nuclear Power Plant R&D, Generation IV Nuclear Power Concepts, Nuclear Space Applications, and Nuclear Engineering Education and Research

Chair, National Academies Task Force on the Implications of Information Technology for the Future of the Research University (a multiyear study involving leaders from industry, higher education, and federal agencies) (2000-2004)

Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2003) (charged with analyzing the White House Budget Request for R&D and developing policy recommendations for federal R&D investments)

Chair, Science, Technology, and Public Policy Task Force, University of Michigan

Other Activities:

National Science Foundation

Advisory Committee on Education and Human Resources (2000 - 2003)

National Academies Committees:

Committee on Science, Engineering, and Public Policy (COSEPUP) (1997-2004)

NAS Roundtable on National Security and Scientific Communication (2003 -)

COSEPUP Committee on Foreign Students and National Security (2003 -)

COSEPUP Steering Committees:

NSF Major Facilities Programs (2002 -)

Interdisciplinary Research (2003 -)

Research Activities of the States (2003 -)

U. S. Department of Energy

Special Task Force on Scientific Research Priorities (2002 - 2003)

The Gliion Group

Joint American-European Conference on Higher Education (1998-2003)

(Executive Committee for Gliion IV)

National Center for Atmospheric Research

Advisory Committee (2001 - 2004)
 MIT Department of Nuclear Engineering
 Visiting Committee (2001 - 2004)
 Georgia Tech
 Visiting Committee (2002-2005)
 Director, Unisys Corporation
 Director, CMS Energy Corporation
 Fellow, Diamond-Cluster Group

Honors and Awards:

Honorary Degree, North Carolina State University (2002)
 Honorary Degree, Royal Roads University (Victoria, Canada) (2002)

Instructional Activities:

Eng 195: "Technology Challenges for the 21st Century"
 A multidisciplinary course for students in engineering and science concerned with the scientific, engineering, social, and ethical issues characterizing the development and application of emerging and rapidly evolving technology.

NERS 590: "Advanced Topics in Nuclear Science and Engineering"
 A graduate level research seminar on an array of contemporary topics in nuclear energy including advanced nuclear reactor design, nuclear fuel cycles, nuclear weapons proliferation, nuclear space applications, and disposal of high level radioactive waste.

Research Activities:

Active Research Grants:

"Development of an Undergraduate Minor Concentration in Nuclear Fission Engineering", National Science Foundation (\$110,000 for 2 y), (JJD PI) (with William Martin, University of Michigan, and Michael Corradini, University of Wisconsin)

"Education in the Digital Age: Leadership, Linkages, and Roadmaps"
 Atlantic Philanthropies Grant to UM, \$890,000 for 3 y (JJD PI)

"Choosing the Future: Information Technology and the Research University"
 Atlantic Philanthropies Grant to National Academy of Sciences, \$1.5 M for 3 y (JJD Co-Director))

Publications: Books

The Future of Public Higher Education in America: Beyond the Crossroads
 co-author Farris W. Womack (Baltimore: Johns Hopkins University Press, 2003) 234 pp.

Higher Education Faces the Digital Age: Technology Issues and Strategies For American Colleges and Universities, co-authors Daniel Atkins and Douglas Van Houweling, ACE/Praeger Series on Higher Education, (Praeger Publishers, Westport, CN; American Council on Education, Washington, 2002) 288 pp.

On the Move: A Personal History of Michigan's College of Engineering in Modern Times (Ann Arbor: University of Michigan, 2003) 155 pp.

Publications: Edited Reports

Observations on the President's Fiscal Year 2003 Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences, Washington (August, 2002) 39 pp. (chair)

Preparing for the Revolution: Information Technology and the Future of the Research University, National Research Council (National Academy Press, Washington, 2002) 80 pp. (chair)

Publications: Papers and Other Publications

James J. Duderstadt, "The Future of the University in the Digital Age", in *As the Walls Are Tumbling Down: The Glion III Conference*, edited by Werner Z. Hirsch and Luc E. Weber (Economica, London, 2002), pp. 38-52.

James J. Duderstadt, Michael L. Corradini, and William R. Martin, "The Use of Undergraduate Minors to Meet National Needs in Nuclear Fission Power Engineering", to be published by the American Society for Engineering Education, July, 2003.

James J. Duderstadt, "Governing the 21st Century University: A View from the Bridge", American Association of Higher Education (2003) (to be published)

James J. Duderstadt, "The Future of Higher Education in the Knowledge-Driven, Global Economy of the 21st Century", University of Toronto 175th Symposium, 2002 (to be published)

James J. Duderstadt, "Higher Education in the New Century: Themes, Challenges, and Opportunities", Symposium on Global Issues in Higher Education, Nagoya University, Japan, 2002

James J. Duderstadt, "Commercialization of the Academy: Seeking a Balance between the Marketplace and Public Interest", Emory University Symposium on Intellectual Property, 2002 (to be published)

*Lectures and Presentations**

Northeastern Academic Officers Conference, Binghamton, NY (6/17/02)
 "Issues in American Higher Education"
 International Symp on the 21st Century University, Nagoya, Japan (6/23/02)
 "Higher Education in the New Century: Themes, Challenges, and Options"
 French Atomic Energy Commission, Paris, France (7/17/02)
 "Nuclear Energy Research in the United States"
 John Seely Brown Symposium, UM School of Information (10/4/02)
 "The New Literacy"
 The Media Union Reunion Workshop, UM Media Union (10/11/02)
 Organizer and Host, "The History of the UM Media Union"
 IT Workshop, hosted for UM Faculty Women's Club, Media Union (10/16/02)
 Commencement Address, Royal Roads University, Victoria, BC (10/18/02)
 "Some Speculations about the Future of the 21st Century University"
 IT Dinner Meeting/Workshop for Azazels, Media Union (10/25/02)
 "An Introduction to the New iMedia"
 175th Celebration, University of Toronto, Toronto (10/31/02)
 "The Future of Higher Education in the Knowledge-Driven Global Economy"
 Physics Course on Public Policy, UM, Ann Arbor (11/6/03)
 "The U.S. Nuclear Energy Program: A Case Study in Science Policy"
 Press Conference Briefing, ITFRU Project, National Academies, DC (11/7/02)
 "The Impact of IT on the Future of the Research University"
 Diamond Exchange, Pinehurst, NC (11/11/02)
 "The Ultimate Intelligent Platform: the American Research University"
 NIH BECON Planning Conference, NIH, DC (11/15/02)
 "Interdisciplinary Research Models"
 Assoc for the Study of Higher Education, Sacramento, CA (11/23/02)
 "Governing the 21st Century University: A View from the Bridge"
 Presentation to Ford School Class, UM (11/26/02)
 "College Sports: Threat or Menace?"
 Eng 195 Guest Lecture, UM (11/26/02)
 "The Future of Engineering"
 North Campus Deans Luncheon, UM, (12/2/02)
 "The History of the University's North Campus: Lessons Learned"
 IT Workshop hosted for Michigan Liberal Arts College Presidents (11/18/02)
 Organizer and hoste, "The Impact of IT on Higher Education"
 Undergraduate Research Opportunities Program, UM (1/8/03)
 "Future Directions of Scientific Research"
 University of Southern California, Los Angeles (2/6/03)
 "The Challenges and Opportunities Facing the Research University"
 University of Missouri, Columbia, Missouri (3/6/03)
 "The Future of the Public University"
 Department of Nuclear Engineering, University of Missouri, Columbia (3/7/03)
 "NERAC and the Future of the U.S. Nuclear Energy Research Program"
 Eng 195 Guest Lecture, UM (4/10/02)
 "The Future of the Engineering Profession"
 Los Alamos National Laboratory, 60th Anniversary, Los Alamos, NM (3/30/03)
 "The Next 60 Years of the U.S. Atomic Energy Program"
 Ohio State University, Columbus, Ohio (5/15/03)
 "The Future of the Public University"
 The Glion Colloquium, Glion, Switzerland (6/23/03)
 "The Future of Research and Scholarship"
 Society of College and University Planners, Miami (7/22/03)
 "Planning for the University of the 21st Century"

Calvin College, 2003 Teaching and Learning Institute, Great Lakes College
Association (7/31/03)
"Learning in the Digital Age"

*For online versions of many of these presentations, see:

<http://milproj.umm.umich.edu/>

Activities Summary (2001-2002)
James J. Duderstadt

Major National Leadership Activities:

Chair, *NERAC*, Nuclear Energy Research Advisory Committee, (1998-2000, reappointed as chair 2001-2003), reporting to the Secretary of Energy and managing a number of subcommittees: Long-Range Planning, DOE Research Infrastructure Roadmapping, Nuclear Nonproliferation Strategies, Transmutation of Radioactive Waste, Radioisotope Production and Research, Operating Nuclear Power Plant R&D, Generation IV Nuclear Power Concepts, Nuclear Space Applications, and Nuclear Engineering Education and Research

Chair, National Academies Task Force on the Implications of Information Technology for the Future of the Research University (a multiyear study involving leaders from industry, higher education, and federal agencies) (2000-2004)

Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2003) (charged with analyzing the White House Budget Request for R&D)

Chair, NAS COSEPUP Panel on Scientific Research in the States

Chair, NAS COSEPUP Panel on Federal Policy for Cyberinfrastructure

Other Activities:

National Science Foundation

Advisory Committee on Education and Human Resources (2000 -)

NAS/NAE/IOM Committee on Science, Engineering, and Public Policy (COSEPUP) (appointed 1997-2000, reappointed 2000-2003)

Stanford University

Board of Senior Scholars, National Center for Postsecondary Education Improvement (1997 - present)

The Glion Group

Joint American-European Conference on Higher Education (1998-2002)

National Center for Atmospheric Research

Advisory Committee (2001 -)

MIT Department of Nuclear Engineering

Visiting Committee (2001 -)

Director, Unisys Corporation

Director, CMS Energy Corporation

Honors and Awards:

Reginald Wilson Award for Achievement in Diversity,
American Council on Education (2001)
Alice L. Beeman Award for Book of the Year
Council for Advancement and Support of Education (2001)
National Academies Award for Public Advisory Service (2001)
Honorary Degree, North Carolina State University (2002)
Honorary Degree, Royal Roads University (Victoria, Canada) (2002)

Instructional Activities:

Eng 195: "Technology Challenges for the 21st Century"
A multidisciplinary course for students in engineering and science concerned with the scientific, engineering, social, and ethical issues characterizing the development and application of emerging and rapidly evolving technology.

Research Activities:

Active Research Grants:

"Development of an Undergraduate Minor Concentration in Nuclear Fission Engineering", National Science Foundation (\$110,000 for 1 y), (JJD PI) (with William Martin, University of Michigan, and Michael Corradini, University of Wisconsin)

"Education in the Digital Age: Leadership, Linkages, and Roadmaps"
Atlantic Philanthropies Grant to UM, \$890,000 for 3 y (JJD PI)

"Choosing the Future: Information Technology and the Research University"
Atlantic Philanthropies Grant to National Academy of Sciences, \$1.5 M for 3 y (JJD chair of steering group)

Pending Research Proposals:

"Summer Faculty Careers Institute for PhD Candidates and Junior Faculty"
National Science Foundation, \$120,000 for 2 y, (JJD, Edie Goldenberg, and Connie Cook)

Publications: Books

The Future of Public Higher Education in America: Beyond the Crossroads
co-author Farris W. Womack, Johns Hopkins
University Press, in production for fall 2002

Higher Education Faces the Digital Age: Technology Issues and Strategies For American Colleges and Universities, co-authors Daniel Atkins
And Douglas Van Houweling, Oryx Press, American Council on
Education, in production for fall 2002

The University of Michigan College of Engineering at 150 Years:

A Personal History, in preparation for College's sesquicentennial in 2003-2004.

Publications: Edited Reports

*Observations on the President's Fiscal Year 2003
Federal Science and Technology Budget*, Committee on
Science, Engineering, and Public Policy, National Academy of Sciences,
Washington (August, 2002) (chair)

Publications: Papers and Other Publications

James J. Duderstadt, "Prepare for the Revolution: The Impact of Information Technology on the Future of the Research University", *Research Universities, and the Challenges of Globalization, An International Convocation*, (Association of American Universities, Washington, 2001) pp. 97-108, 118-126..

James J. Duderstadt, "The Future of the University in the Digital Age", in *And the Walls Came Tumbling Down: The Glion III Conference*, edited by Werner Z. Hirsch and Luc E. Weber (Economica, London, 2002)

Lectures and Presentations

Glion III, Montreux Switzerland (5/31/01)

"The Future of the University in the Digital Age"
National Association of State Universities and Land-Grant Colleges, Atlanta (6/11/01)

"Leading the University During an Era of Change"
NAS Government-Industry-University Research Roundtable, Washington (6/20/01)

"Choosing Our Future: ICT and the University"
Diamond Cluster, Pebble Beach (6/26/01)

"Some Speculations Concerning the Future of Digital Technology"
State Higher Education Executives Organization (SHEO), Portland, Maine (7/30/01)

"Leading the University During an Era of Change"
U.S. Dept of Education, Producing Tomorrow's Teachers, Washington (8/3/01)

"Preparing the Instructional Workforce for a Digital Future"
60 Minutes Interview (Leslie Stahl) (taped 8/16/01, shown 1/20/02)
"The Exploitation of Student Athletes in Intercollegiate Athletics"
UM Sports Management Class, Ann Arbor, October 6/01
"Reforming College Sports"
UM Graduate Seminar in Higher Education, Ann Arbor (9/12/01)
"Faculty Issues in Higher Education"
Oberlin College, Oberlin, Ohio (10/19/01)
"The Michigan-Oberlin Partnership"
UCLA Public Policy Research Conference, Los Angeles (10/19/01)

- "In Search of a 2x4: Change and the Academy"
UM Chemistry Colloquium, Ann Arbor (10/26/01)
- "Observations on Preparing for Academic Careers"
Governor's Blue Ribbon Commission, State of Colorado, Denver (11/7/01)
- "The Future of Public Higher Education"
Midwest University Consortium, Kansas City (11/16/01)
- "Leading the University During an Era of Rapid Change"
The Secretariat, American Council on Education, Washington (12/4/01)
- "Higher Education in the New Century: Themes and Options"
Strategic Planning Group, American Council on Education, Washington (12/4/01)
- "Change and the Academy"
University of Texas Board of Regents, Austin (1/9/02)
- "A Strategy for Leadership in Higher Education in Texas"
University of Texas Presidents Council, Austin (1/10/02)
- "The University of the 21st Century"
Faculty Senate, Vanderbilt University (1/11/02)
- "The Future of the American Research University"
UM Faculty Women's Club, Ann Arbor (2/11/02)
- "A Homeowners Guide to Digital Technology"
National Academy of Engineering Regional Meeting, Madison (3/18/02)
- "Secure Electricity for the 21st Century"
Sam Nunn Symposium, Emory University, Atlanta (4/6/02)
- "Commercialization of the Academy: The Marketplace vs. Public Interests"
College of Engineering, North Carolina State University (5/17/02)
- "The Future of Nuclear Energy Research in the United States"
Executive Officers, North Carolina State University (5/17/02)
- "Federal Research Policy and the Future of the Research University"
Symposium on Status of Minorities in Sports, Michigan State University (5/21/02)
- "Diversity and Equity in College Sports: the Need for Change"
Michigan Colleges Association, Ann Arbor (5/29/02)
- "The Challenge and Opportunity of Digital Technology for Education"
CRLT Preparing Future Faculty Seminar, Ann Arbor (5/30/02)
- "Preparing Future Faculty for Future Universities"
Emeritus Alumni Induction Ceremony, UM Alumni Association (5/31/02)
- "The Wheel Turns: The University over 50 Years"
Northeastern Academic Officers Conference, Binghamton, NY (6/17/02)
- "Issues in American Higher Education"
International Symposium on the 21st Century University, Nagoya, Japan (6/23/02)
- "Higher Education in the New Century: Themes, Challenges, and Options"
French Atomic Energy Commission, Paris, France (7/17/02)
- "Nuclear Energy Research in the United States"

Activities Summary (2000-2001)
James J. Duderstadt

Teaching Activities:

Rackham 570: "Preparing for Academic Careers" (with Edie Goldenberg)
A seminar course for advanced graduate students interested in academic careers (*New Course*—see Appendix for syllabus)

Eng 195: "Technology Challenges for the 21st Century"
A multidisciplinary course for students in engineering and science concerned with the scientific, engineering, social, and ethical issues characterizing the development and application of emerging and rapidly evolving technology. (*New Course*—see Appendix for syllabus)

Research Activities:

(See <http://milproj.umm.umich.edu>)

Major National Leadership Activities:

Chair, *NERAC*, Nuclear Energy Research Advisory Committee reporting to the Secretary of Energy and managing a number of subcommittees: Long-Range Planning, DOE Research Infrastructure Roadmapping, Nuclear Nonproliferation Strategies, Accelerator Transmutation of Radioactive Waste, Radioisotope Production and Research, Operating Nuclear Power Plant R&D, Generation IV Nuclear Power Concepts, Nuclear Space Applications, and Nuclear Engineering Education (1998-2000, reappointed chair 2001-2003)

Chair, National Academies Task Force on the Implications of Information Technology for the Future of the Research University (a multiyear study involving leaders from industry, higher education, and federal agencies) (2000-2004)

Chair, Guidance Committee on the Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997-2003) (charged with analyzing the White House Budget Request for R&D)

Chair, Panel on Scholarship in the Digital Age, National Research Council (1998 to 2001) (Final Report published in April, 2001)

Other Activities:

National Academy of Engineering
Executive Council (elected 1996 – 2000)

Executive Committee (1998 – 2000)
 NAS/NAE/IOM Committee on Science, Engineering, and Public Policy
 (COSEPUP) (appointed 1997-2000, reappointed 2000-2003)
 Stanford University
 Board of Senior Scholars, National Center for Postsecondary
 Education Improvement (1997 – present)
 The Glion Group
 Joint American-European Conference on Higher Education (1998-2002)
 National Partnership for Advanced Computation Infrastructure
 Oversight Board (1998 -)
 National Center for Atmospheric Research
 Advisory Committee (2001 -)

Publications: Books

A University for the 21st Century, University of Michigan Press (March, 2000) 358 pp.
Intercollegiate Athletics and the American University: A University President's Perspective, University of Michigan Press (October, 2000) 321 pp.
Beyond the Crossroads: The Future of Public Higher Education in America, co-author Farris W. Womack, to be published by Johns Hopkins University Press, early 2002
Higher Education Faces the Digital Age: Technology Issues and Strategies For American Colleges and Universities, co-authors Daniel Atkins And Douglas Van Houweling, Oryx Press, American Council on Education, manuscript submitted for review

Publications: Edited Reports

Observations on the President's Fiscal Year 2001 Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences, Washington (March, 2000) (chair)
Scholarship in the Digital Age, National Research Council (National Academic Press, April, 2002) (chair)

Publications: Papers and Other Publications

James J. Duderstadt, "Fire, Ready, Aim! University Decision Making During an Era of Rapid Change", The Glion II Colloquium, Del Mar, California (2000); also in *Governance in Higher Education: The University in a State of Flux*, Edited by Werner Z. Hirsch and Luc E. Weber (Economica, London, 2001) pp. 26 – 51.
 James J. Duderstadt, "Technology's Breathtaking Implications", *The Presidency*, Vol. 3, No. 2 (American Council on Education, Washington, 2000) p. 17

James J. Duderstadt, "The Future of the University in the Digital Age", Testimony to Committee on Science (Subcommittee on Basic Research), United States House of Representatives, May 9, 2000

James J. Duderstadt, "Nuclear Energy Research Needs for the 21st Century", Testimony to Committee on Science (Subcommittee on Energy and Environment), United States House of Representatives, July 25, 2000

James J. Duderstadt, "Leadership During a Time of Change", Forum for the Future of Higher Education, Aspen (2000); *Forum Futures* 2001, p. 27.

James J. Duderstadt, "Preparing, Recruiting, Developing, Retaining, and Retiring the Faculty of the Future: The View from South of the Border", Annual Meeting of the Association of Universities and Colleges of Canada, Calgary (October, 2000).

James J. Duderstadt, "The Future of College Sports", Testimony to the Knight Commission, Washington (October, 2000).

James J. Duderstadt, "A Society of Learning: A Vision for the Future of the Public University in the New Millennium", University of Wisconsin, Madison, Wisconsin (October, 2000).

James J. Duderstadt, "Financing the Public University in the New Millennium", University of Washington, Seattle, (November, 2000).

James J. Duderstadt, "Technology", *Educause Review*, January/February 2001, pp. 48 – 56.

James J. Duderstadt, "The Future of the University in the Digital Age", *Proceedings of the American Philosophical Society* Vol. 145, No. 1 (March, 2001) pp. 54-72.

James J. Duderstadt, "The Impact of Information Technology on the Future of Graduate Education", Council of Graduate Schools, New Orleans (2000).

James J. Duderstadt, "Preparing Future Faculty for Future Universities", American Association of Colleges and Universities, to be published (2001).

James J. Duderstadt, "Science Policy: The Next 50 Years", Association for the Advancement of Science, San Francisco (February, 2001).

James J. Duderstadt, "The Importance of Liberal Learning for an Increasingly Technological World", 10th Anniversary Symposium, Ivan Allen College, Georgia Institute of Technology (March, 2001).

James J. Duderstadt, "From Guns to Pills to Brains: Shifting Federal Research Priorities for the 21st Century", Wolfle Lecture, University of Washington (March, 2001).

James J. Duderstadt, "Preparing for the Revolution", International Centennial Convocation, Association of American Universities, Washington, April 23, 2001.

James J. Duderstadt, "The Future of the University in the Digital Age", The Glion III Conference, Glion, Switzerland (2001), to be published.

Lectures and Presentations:

Department of the Navy, Washington (6/2/00)

"Graduate Education for the Armed Services"

Frye Leadership Conference, Emory University, Atlanta (6/5/00)

"Professional Education in an Age of Knowledge"

Association of American Universities, Washington (6/7/00)

"Challenges for the Research University in the Century Ahead"

University of Colorado, Boulder (6/22/00)

"A Strategic Plan for Higher Education in Colorado"

Congressional Testimony to House Science Committee, Washington (7/25/00)

"Nuclear Energy Research Needs for the 21st Century"

OSTP Conference on Distance Learning, Monterey (8/8/00)

"The Future of the University in the Digital Age"

DOE NERAC meeting with Engineering Deans (9/18/00)

"A Looming Crisis: Nuclear Engineering Education"

Forum on Higher Ed, Aspen Institute (9/27/00)

"Fire, Ready, Aim! University Decision Making During an Era of Rapid Change",

Briefing for the Smith Group (9/29/00)

"The Future of the University"

Association of Universities and Colleges of Canada (AUCC), Calgary (10/4/00)

"Preparing, Recruiting, Developing, Retaining, and Retiring the Faculty of the Future: The View from South of the Border",

Diamond Exchange, Palm Beach (10/16/00)

"The Plug and Play Generation"

AAU Executive Board, Chicago (10/17/00)

"Strategic Challenges and Opportunities for the 21st Century"

Knight Commission, Washington (10/18/00)

"The Future of College Sports"

University of Wisconsin, Madison (10/30/00)

Lecture 1: "Digital Technology and the Future of the University"

Lecture 2: "A Society of Learning: A Vision for the Future of the Public University in the New Millennium"

American Nuclear Society, Washington (11/13/00)

"The Human and Intellectual Capital Investments Necessary for a Sustainable Nuclear Energy Future"

University of Washington, Seattle (11/29/00)

"Financing the Public University in the New Millennium"

Council of Graduate Schools, New Orleans (12/8/00)

"The Impact of Information Technology on the Future of Graduate Education",
AAAS Congressional Interns, Washington DC (1/11/01)

"Federal Science Policy for the 21st Century"

American Association of Colleges and Universities, New Orleans (1/27/01)

"Preparing Future Faculty for Future Universities",

IT and Future of Research University, NAS, Washington (1/22/01)

Keynote address and moderater for sessions

American Association for the Advance of Science, San Francisco (2/18/01)

"Science Policy: The Next 50 Years",

Greenhills School, Ann Arbor (2/27/01)

"Your Future"

Diamond Exchange, Squaw Valley (3/13/01)

"The Big Surprise: Energy Technologies"

Social Change, and Education, Georgia Tech (3/16/01)

"The Importance of Liberal Learning for an Increasingly Technological World",
Sigma Xi Forum, Ann Arbor (3/30/01)

"Distance Learning: Opportunity or Threat?"

First Unitarian Church, Ann Arbor Michigan (4/1/01)

"College Sports in America"

Wolfe Lecture, University of Washington (4/10/01)

"From Guns to Pills to Brains: Shifting Federal Research Priorities for the 21st Century"

Association of American Universities (4/23/01)

"Preparing for the Revolution"

National Science Board, Washington (5/22/01)

"The Allocation of Federal Funding to Research Priorities"

May 31, Glion III, Montreaux Switzerland (5/31/01)

"The Future of the University in the Digital Age"
NASULGC, Atlanta (6/11/01)

"Leading the University During an Era of Change"
NAS Government-Industry-University Research Roundtable, Washington (6/20/01)

"Choosing Our Future: ICT and the University"
Diamond Cluster, Pebble Beach (6/26/01)

"Some Speculations Concerning the Future of Digital Technology"
State Higher Ed Executives, Portland, Maine (7/30/01)

"Leading the University During an Era of Change"
U.S. Dept of Education, Producing Tomorrow's Teachers, Washington (8/3/01)

"Preparing the Instructional Workforce for a Digital Future"

Preparing for Academic Careers: Rackham 570, Section 1
Fall Term 2000

This two-credit course is intended to provide graduate students interested in academic careers with an introduction to the profession. It focuses on topics often untouched in traditional graduate programs. In a sense, this is a course about “Everything you should know about being a college professor...but which you are unlikely to learn until it is too late!” This course is appropriate for students from all academic fields. We want students to learn what may face them in their chosen careers, and we also want students to understand the realities and pressures that will face their academic colleagues in other fields.

The format of the course will be a discussion seminar, with occasional invited speakers on particular topics. Grading will be pass-fail and based upon seminar preparation and participation. Seminar preparation involves assigned readings as well as interviews with faculty in your field. The course will be supported by a web-based knowledge environment.

Readings: We recommend that students purchase Donald Kennedy's *Academic Duty* (Harvard University Press, Cambridge, 1997) as well as a coursepack of readings.

September 6: The Culture and Values of the Academy

- Academic freedom
- Academic responsibility
- Faculty panel discussion

September 13: Academic Environments

- Types of institutions
- The modern university

September 20: Landing the First Job

- The job search
- What are institutions looking for?
- What kind of an institution should you be looking for?
- What is negotiable (and getting it in writing)?
- Postdocs—desirable? Necessary? How many? How long?
- Non-tenure track positions
- Dual careers
- What if you don't find an academic position?

September 27: How Do Professors Spend Their Time?

- Differences across institutions
- Differences across fields
- Differences across career stages

October 4: Teaching

- Importance to appointment, promotion, and salary
- Level and load

- Ways to improve
- Technology
- Politics and sensitive material
- Grade conflict
- Academic honesty
- Student needs

October 11: Training and Mentoring

- Ownership of ideas and data
- Exploitation
- Relationships between faculty and students
- Competition among and with students
- Sexual/ racial harassment

October 18: Research and Scholarship

- Importance to appointment, promotion, and salary
- Different forms of scholarship—practice and value
- Funding sources and grantsmanship
- Competition
- Academic integrity (falsification of data, ownership)
- Joint authorship
- Politics and sensitive material

October 25: Publication and Other Scholarly Products

- Books vs. articles, textbooks
- Multiple submissions
- Status of journals, peer review
- Timing and delays
- Scholarly integrity (authorship, plagiarism, redundancy)
- Responsibilities of referees
- Technology (software, inventions)

November 1: Service

- Importance to appointment, promotion, and salary
- How and when to say “NO!”
- Department, school, university, profession, community

November 8: Tenure and How to Prepare for it

- Rules and expectations
- Networking (conferences, sharing work)
- Curriculum vitae
- External reviewers
- Academic politics
- How senior colleagues can help...or hurt
- Interdisciplinary challenges

November 15: Conflicts of Commitment

- Who owns faculty time?

Consulting
Income from outside activities
Canceling class

November 22: NO CLASS – THANKSGIVING RECESS

November 29: Conflict of Interest
Intellectual property
University-industry relations
Disclosure

December 6: Academic Administration and University Governance
Academic administration and careers
Personnel
Dispute resolution
Litigation

December 13: The Future
Change and the university
Where are colleges and universities likely to head
...during your career...

Activities Summary (1999-2000)
James J. Duderstadt

Teaching:

SPP 773: "Issues in Higher Education" (with Edie Goldenberg)
A seminar course for graduate students in public policy and higher education administration on topics in higher Education.

Rackham 599: "Sports in America" (led by Christine Brooks)
A interdisciplinary graduate course, sponsored by Rackham, exploring an array of issues in sports, including the history of college sports, the Olympic sports movement, financing college and professional sports, academic performance of student-athletes, etc.

Research:

Director, Millennium Project
(See <http://milproj.ummu.umich.edu>)

Major National Leadership Activities:

Chair, *NERAC*, Nuclear Energy Research Advisory Committee reporting to the Secretary of Energy and managing a number of subcommittees: Long-Range Planning, DOE Research Infrastructure Roadmapping, Nuclear Nonproliferation Strategies, Accelerator Transmutation of Radioactive Waste, Radioisotope Production and Research, Operating Nuclear Power Plant R&D, and Nuclear Engineering Education (During the past year, we were charged by Secretary Richardson to develop a long-range nuclear energy R&D plan for the United States, due for presentation later this month).

Chair, National Academies Task Force on the Implications of Information Technology for the Future of the Research University (a multiyear study involving leaders from industry, higher education, and federal agencies)

Chair, Guidance Committee on the Federal Science and Technology Budget of the Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997 to present) (charged with analyzing the White House Budget Request for R&D)

Chair, Panel on Scholarship in the Digital Age, National Research Council (1998 to 1999) (Monograph drafted and under NRC review)

Chair, Triana Mission Review Panel, National Research Council (a Congressionally mandated panel to review the scientific projects associated with the Triana Space Mission, proposed by VP Gore, to place a satellite at the L-1 point, one million miles from earth,

to perform full sunlit disk imaging and measurements of the Earth)

Other Activities:

National Academy of Engineering
 Executive Council (elected 1996 – 2000)
 Executive Committee (1998 – 2000)
 NAS/NAE/IOM Committee on Science, Engineering, and Public Policy
 (COSEPUP) (appointed 1997-2000, reappointed 2000-2003)
 Stanford University
 Board of Senior Scholars, National Center for Postsecondary
 Education Improvement (1997 – present)
 The Glion Group
 Joint American-European Conference on Higher Education (1998 –)
 National Partnership for Advanced Computation Infrastructure
 Oversight Board (1998 -)
 National Association of State Universities and Land-Grant Colleges
 Committee on Cyber Education
 Planning Group for 21st Century Learn-Grant Act
 University of Toronto and Council of Ontario Universities
 Advisor on development of a master plan for higher ed in Ontario
 U. S. Naval Postgraduate School
 Advisor on restructuring of graduate education for armed services
 University of Michigan Admissions Litigation
 Working with UM legal team on admissions suit

Books:

A University for the 21st Century, University of Michigan Press (March, 2000) 358 pp.
Intercollegiate Athletics and the American University: A University President's Perspective, University of Michigan Press (August, 2000) 321 pp.
Beyond the Crossroads: The Future of Public Higher Education in America, co-author Farris W. Womack, manuscript submitted to Harvard University Press, May, 2000
Higher Education Faces the Digital Age: Technology Issues and Strategies For American Colleges and Universities, co-authors Daniel Atkins And Douglas Van Houweling, Oryx Press, American Council on Education, manuscript in preparation

Other Documents:

Positioning the University of Michigan for the New Millennium A Case Study in University Transformation, published both as an archival document and a website, November, 1999
Observations on the President's Fiscal Year 2001 Federal Science and Technology Budget, Committee on Science, Engineering, and Public Policy, National Academy of Sciences, Washington (March, 2000) (chair)
Scholarship in the Digital Age, National Research Council (September, 2000) (chair)
Report of the Panel to Review the Triana Earth Observing Satellite Mission, National Research Council, National Academy of

Sciences (March, 2000) (chair)

Papers:

- James J. Duderstadt, "A Society of Learning: A Vision for the Future of the University in the New Millennium", David Dobbs Henry Lecture, University of Illinois, 1999
- James J. Duderstadt, "The University in the Digital Age", *American Philosophical Society*, November, 1999
- James J. Duderstadt, "New Roles for the 21st Century University", *Issues in Science and Technology*, Vol. XVI, No. 2, National Academy of Sciences, 2000 pp. 37-44
- James J. Duderstadt, "A Choice of Transformations for the 21st Century University", *Chronicle of Higher Education*, February 4, 2000 pp. B6-B7
- James J. Duderstadt, "Fire, Ready, Aim! University Decision Making During an Era of Rapid Change", *The Glion II Colloquium*, Del Mar, California (January, 2000)
- James J. Duderstadt, "University Transformation in the Digital Age", *The Presidency*, American Council on Education, July, 2000
- James J. Duderstadt, "A Learn Grant for the 21st Century", *American Society for Engineering Education*, Fall, 2000 (Also as NASULGC White Paper)

Major Lectures and Presentations:

- IEEE Symposium on Digital Libraries, Washington (5/19/99)
"Preparing for the Digital Age"
- Michigan Technological University, Houghton (5/26/99)
"The Future of the Research University"
- Ohio Board of Regents, Columbus (6/18/99)
"Public Higher Education in Ohio"
- University Project, Salzburg Seminars, Austria (7/6/99)
"Western Models for Russian Higher Education"
- National Science Board, Washington (9/17/99)
"Federal Research Trends and Opportunities"
- North Carolina State University, Raleigh (11/8/99)
"University Transformation"
- American Philosophical Society, Philadelphia (11/13/99)
"The University in the Digital Age"
- David Dobbs Henry Lecture, University of Illinois, Champaign (11/30/99)
"A Society of Learning: A Future for Higher Education in America"
- Glion II Conference, Del Mar, California (1/6/00)
"Decision Making During an Era of Rapid Change"
- Regents and Presidents of State of Ohio, Columbus (1/20/99)
"Structuring a Conversation on University Change"
- Emory University, Atlanta (3/9/00)

“Preparing Higher Education for the New Millennium”
Meredith College, Raleigh (4/15/00)
Speaker for Inauguration of President Maureen Hartford
Music School, University of Michigan (4/18/00)
Commencement Address
Generation IV Conference, Department of Energy, Washington (5/1/00)
“A Long-Range Nuclear Energy R&D Plan for the Nation”
Congressional Testimony, House Science Committee (5/9/00)
“The Challenge of the Internet to University Research”
Department of the Navy, Washington (6/2/00)
“Graduate Education for the Armed Services”
Frye Leadership Conference, Emory University, Atlanta (6/5/00)
“Professional Education in an Age of Knowledge”
Association of American Universities, Washington (6/7/00)
“Challenges for the Century Ahead”
University of Colorado, Boulder (6/22/00)
“A Strategic Plan for Higher Education in Colorado”

Activities Summary (1998-1999)
James J. Duderstadt

Teaching:

Eng 390: "An Introduction to the Engineering Profession"
(A new introductory course designed for lower-division engineering students), (Fall and Winter Term, 1998-99 two sections each term)

<http://milproj.umm.umich.edu/version2/classes/eng390>

Research:

Director, Millennium Project
(See Millennium Project brochure or
<http://milproj.umm.umich.edu>)

Major Leadership Activities:

Chair, *NERAC*, Nuclear Energy Research Advisory Committee reporting to the Secretary of Energy and managing a number of subcommittees. These include the DOE facilities roadmapping effort, the future of the U.S. nuclear energy research program, radioisotope production and nuclear medicine, the optimization of operating nuclear power plants, and the future of nuclear engineering as a discipline) (1998-2000)

Chair, Guidance Committee on the Federal Science and Technology Budget of the Committee on Science, Engineering, and Public Policy, National Academy of Sciences (1997 to present)

Chair, Panel on Scholarship in the Digital Age, National Research Council (1998 to 1999), (Monograph scheduled for September)

Chair, proposed Commission on the Impact of Information Technology on the American Research Enterprise, NAS/NAE/IOM, NSF/NSB, and AAU (to be launched this summer) (1999 -)

Chair, proposed Committee on Transitions in the Academy (a study of the career transitions from doctoral study through academic appointment to retirement), COSEPUP and NRC-OSEP (1999 -)

Chair, University of Michigan Committee on Preparing Future Faculty (a Rackham committee working to build alliances with liberal arts colleges (Oberlin and Kalamazoo) and comprehensive universities (EMU and UM-Dearborn) (1998 - 1999)

Convenor, Faculty Committee to explore the creation of a Sports Research Institute at the University of Michigan (1997 - present)

Other Activities:

- National Academy of Engineering
 - Executive Council (elected 1996 – 2000)
 - Executive Committee (1998 – 2000)
- NAS/NAE/IOM Committee on Science, Engineering, and Public Policy (COSEPUP), (appointed 1997-2000)
- Stanford University
 - Board of Senior Scholars, National Center for Postsecondary Education Improvement (1997 – present)
- Yale University
 - Advisory Council on Information Technology (1997 – present)
- Glion Group
 - Joint American-European Conference on Higher Education (1998 –)
- National Partnership for Advanced Computation Infrastructure Oversight Board (1998 -)
- National Association of State Universities and Land-Grant Colleges
 - Committee on Cyber Education
 - Planning Group for 21st Century Land-Grant Act
- University of Toronto and Council of Ontario Universities
 - Advising on development of a master plan for higher ed in Ontario
- University of Michigan Admissions Litigation
 - Working with UM legal team on admissions suit

Publications:

Books and Monographs:

- A University for the 21st Century*, UM Press, in printing
(to appear Fall 1999)
- Time Out!: A Call to Reason in College Sports*, UM Press, in editing
(to appear Winter, 2000)
- Beyond the Crossroads: The Future of Public Higher Education in America*, with Farris W. Womack, draft submitted for review
- New Social Lifeforms for a Knowledge Society*, writing project
with D. E. Atkins, summer, 1999

Other Documents:

- Positioning the University of Michigan for the New Millennium
A Case Study in University Transformation*, published both
as an archival document and a website, July, 1999

Papers:

- "The 21st Century University: A Tale of Two Futures," *Glion Conference on the Future of Higher Education*, Ed. By Werner Hirsch (Elsevier, Holland, 1999)
- "Graduate Education in Science and Engineering: a Time for Reassessment," *J. Nuclear Energy* **34**, 4 (1999), pp. 431-453

“Can Colleges and Universities Survive in the Information Age?”
 in *Dancing with the Devil: Information Technology and
 the New Competition in Higher Education*, Ed. By Richard
 N. Katz (Jossey-Bass Publishers, San Francisco, 1999),
 pp. 1 – 25

*Observations on the President’s Fiscal Year 2000 Federal Science
 and Technology Budget*, AAAS Volume (COSEPUP
 Guidance Committee), (National Academy of Sciences,
 Washington, 1999)

Major Lectures and Presentations:

National Network of Women Leaders Conference, Lansing (6/2/98)
 “The Michigan Agenda for Women”
 Texas A&M University, College Station, Texas (6/4/98)
 “The Future of the Research University”
 NSF/OSTP Meeting on SET Workforce of the Future, Washington (7/29/98)
 “Diversity in Higher Education”
 University of Houston, Houston, Texas (10/7)
 “Preparing for the Millennium”
 Business-Higher Education Forum, University of Wisconsin (10/21/98)
 “Productivity in Higher Education”
 NAS Government-University-Industry Research Roundtable, DC (10/28/98)
 “Reading the Tea Leaves for Federal Support”
 Oberlin College, Oberlin, Ohio (12/18/98)
 “The Future of Higher Education in the Digital Age”
 Case-Western Reserve, Cleveland (1/15/99)
 “Emerging Competitors to the American University”
 Kiwanis Club, Ann Arbor (2/22/99)
 “The Future of Education in Michigan”
 Georgia Tech University, Atlanta (3/4/99)
 “The Future of the Research University”
 Naval Postgraduate School, Monterey, California (3/16/99)
 “Preparing for the Millennium”
 AAU Public Affairs Meeting, Washington, D.C. (3/23/99)
 “New Competitors, Old Challenges”
 National Academy of Sciences, Washington, D.C. (4/13/99)
 “Observations on the President’s FS&T Budget for FY2000”
 NASULGC Executive Board, Washington, D.C. (4/13/99)
 “A 21st Century Land-Grant Act”
 IEEE Conferences on Advances in Digital Libraries, Baltimore (5/19/99)
 “The Future of the Research University”
 Michigan Technological University, Houghton, Michigan (5/26/99)
 “Strategic Planning in Higher Education”
 Ohio State Board of Regents, Columbus (6/18/99)
 “Preparing the University for an Age of Knowledge”
 Joint Russian-United States Conference, Salzburg, Austria (7/2/99)
 “Restructuring Higher Education”

Current Millennium Project Activities:

Extending the Camp CAEN model to net-based instruction (working

with several Michigan high schools)
Working with the UM Alumni Association to develop net-based
information technology instruction programs for alumni
Assisting several University departments in the development of
net-based courses
Hosting an ongoing workshop concerning the future of public education
in Michigan
Hosting a faculty group exploring the possibility
of creating a Sports Research Institute at Michigan (with
the first course developed by the group to be taught this fall)
Working closely with the Bentley Historical Library in developing
net-based archives concerning the history of the University
Development of multimedia history and virtual reality tour of
the University of Michigan campus

Activities Summary (1997-1998)
James J. Duderstadt

Personal Activities

Teaching:

- SOI 603/SEd 867: "Change in the Higher Education Enterprise and
 • the Emergence of New Learning Organizations" (a graduate
 • research seminar) (Fall Term, 1997)
 • milproj.ummu.umich.edu—higher education
- Eng 390: "An Introduction to the Engineering Profession"
 • (A new introductory course designed for lower-division
 • engineering students) (Winter Term, 1998) (two sections)
 • milproj.ummu.umich.edu—eng390

Research:

- Director, Millennium Project
 (See Millennium Project brochure or
 • milproj.ummu.umich.edu

State Service:

- President, Michigan Virtual Automotive College (see below)
- Advisor, State Technology Strategy
- Advisor, Michigan Virtual University

Federal Service:

- National Academy of Engineering
 • Executive Council (elected 1996-1999)
 • Executive Committee
- NAS/NAE/IOM Committee on Science, Engineering, and Public
 Policy
 • (COSEPUP) (appointed 1997-2000)
 Chair, COSEPUP Guidance Committee on the Federal Science
 and
 • Technology Budget
- NAS/NAE/IOM/NRC
 • Co-Chair, GUIRR-NSB Project on Stresses in the Academy
 Chair, Commission on the Future of the Research University
 • (launched during summer, 1998)

Other Service:

- Yale University
 • Advisory Council on Information Technology
- Stanford University
 Board of Senior Scholars, National Center for Postsecondary
 • Education Improvement
- Glion Group
 • Joint American-European Conference on Higher Education

Publications: 1997-1998

Papers

1. "Transforming the University to Serve the Digital Age"
 • CAUSE /EFFECT Vol. 20, No. 4 (Winter 1997-98) pp. 21-33
2. "Transforming the University to Serve the Digital Age"

- (Jossey-Bass, 1998)
- 3. "The Michigan Virtual Auto College", with Bruce Montgomery
 - and Timothy Quinn, submitted to Change, Spring, 1998
- 4. "The 21st Century University: A Tale of Two Futures",
 - Hewlett Joint American-European Conference, May, 1998
- 5. "Observations on the President's Fiscal Year 1999 Federal Science
 - and Technology Budget", AAAS Volume (COSEPUP
 - Guidance Committee)
- 6. "Financing the Future", The Common Fund, Winter, 1998
- 7. "The Future of the University", Letter to the Editor, Issues in
 Science
 - and Technology, Vol. XIV, No. 2, Winter 1997-98, pp. 7-8
- 8. "Engineering Education for the 21st Century", ASEE Prism, 1998

Books and Monographs

A University for the 21st Century

- Final draft completed (3/98)
- Currently in publication review

The View from the Hill: A University President's View of Intercollegiate Athletics

- First draft completed (11/97)
- Final draft scheduled for completion in summer, 1998

The Michigan Experience: A Case Study in University Transformation

- Final draft completed (3/98)
- Currently in production

Beyond the Crossroads: The Future of the Public Research University

- in America (w. Farris Womack)
- First draft completed (4/98)

Essays on the Changing Nature of the University

- Drafting underway

Major Lectures and Presentations: 1997-98

Indiana of University Regents, French Lick (9/17)

- Information Technology and the University

The Common Fund, Chicago (9/28)

- Financing Higher Education in the New Millennium

Henry Ford Community College, Dearborn (10/10)

- Information Technology and Higher Education

Whitaker Foundation, Washington (10/17)

- The Future of the American Research Enterprise

Washtenaw Community College (10/21)

- The Michigan Virtual Automotive College

Washington University, St. Louis (10/22)

- The Future of the University in a Digital Age

Flint FOCUS, Flint (11/11)

- A Learning Society

Councillors of Canadian Universities, Toronto (11/19)

- The Future of Higher Education in Canada

Michigan Journalist Fellows Program, Ann Arbor (1/29)

- The Future of the University

Conference of Financial Aid Administrators, Indianapolis (2/6)

- A Restructuring of the Knowledge Industry
Oakland University (2/20)
- Positioning the University for an Age of Knowledge
NAS/NAE COSEPUP Meeting, Washington (2/19)
- FS&T Guidance Task Force
UM College of Engineering Student Council, Ann Arbor (2/22)
- The New Engineering
Conference of University CFOs, Washington (2/23)
- Restructuring the Academy
University of Texas, Austin (3/31)
- The Future of the Research University in the Digital Age
American Nuclear Society Student Meeting, Ann Arbor (4/3)
- Nuclear Engineering: The Challenge for the 21st Century
Perkin-Elmer Distinguished Lecture, U. Pittsburgh (4/9)
- The Future of the Research University in the Digital Age
American Nuclear Society Regional Meeting, Ann Arbor (4/16)
- A Learning Society
Ford Motor Company Strategic Planning Committee, Dearborn (4/20)
- Strategic Planning in the Information Age
NAS/NAE/NRC Press Conference on FS&T Budget, DC (4/21)
- An Analysis of the Federal Science and Technology Budget
Knight Roundtable on Public Higher Education, Santa Cruz (4/25)
- A Public Agenda for Higher Education in America
100th Anniversary of Chemical Engineering, Ann Arbor (5/13)
- The Future of Engineering Education
Hewlett US-European Meeting on Higher Education, Montreaux (5/14)
- A Tale of Two Futures: Market Forces vs. Public Purpose in
 - Higher Education
- Monroe Community College Luncheon, Monroe (5/29)
- The Future of Higher Education in Michigan
Texas A&M University (6/4)
- The Future of The Research University
Coopers-Lybrand Higher Education Summit, San Diego (6/22)
- A Tale of Two Futures: Market Forces vs. Public Purpose in
 - Higher Education
- Millennium Project Activities
 - (See also Millennium Project brochure)
- Michigan Virtual Auto College
 - Initial course offerings (fall, 1997)
 - CEO Search completed (fall, 1997)
- JJD steps aside as “startup president” (spring, 1998)
 - (although still a member of Board of Directors)
- Michigan Technology Strategy
 - State Planning Efforts
 - Design of Kellogg Commission
 - Michigan Knowledge and Learning Network
- CyberCamp
 - Development of paradigms (fall, 1997)
 - Small scale prototyping (winter, 1998)

- Scaling up (summer-fall, 1998)

Michigan Virtual University

- Initial Design (fall, 1997)
- Startup (spring-summer, 1998)

Planning Committee for National Sports Research Institute

- Development of mission statement and objectives
- Planning for academic seminar series for 1998-99
- Preliminary fund-raising planning

Activities Summary (1996-1997)
James J. Duderstadt

Publications: 1996-1997

Completion of Presidential Publications

The Sunflower Report
The Michigan Strategy
Rebuilding the University

Other Internal Publications

Millennium Project Brochure
Media Union Brochure
Beyond the Endless Frontier (National Academy of Sciences)
The Future of the Public Research University (Penn State Kickoff)
The American University in the Digital Age (Sloan Conference)
Diversity in Higher Education (National Science Foundation)

External Publications

“The University As Conglomerate”, *The World of Research* 2.2, 14
(Columbia University, Winter, 1997)
“The Future of the University in an Age of Knowledge”, *Journal of Asynchronous Learning Networks* (Summer, 1997)
“The Future of the Public Research University”, *Journal of California Higher Education Association* (Fall, 1996)
“The Future of the Higher Education Enterprise”, *Journal of Institutional Planning* (Summer, 1997)

Books and Monographs

The American University: The Challenge of Change
Final draft completed (6/97)
Currently in publication review
The Michigan Experience: A Case Study in University Transformation
Final draft completed (7/97)
Internal publication
The View from the Hill: A University President’s View of Intercollegiate Athletics
Drafting underway
The Future of the Public Research University (w. Farris Womack)
Drafting underway

Major Lectures and Presentations: 1996-97

Columbia University, New York (9/21)
Beyond the Endless Frontier
Fulbright 50th Anniversary, Ann Arbor (10/30)
The Globalization of the American University
UM Virtual Reality Seminar, Ann Arbor (10/4)
Introduction
Penn State, State College (10/8)
The Future of the Public University
University of Maryland, Baltimore (10/15)
Beyond the Endless Frontier
UM-German Visit, Ann Arbor (10/16)
The Virtual University
Sloan-NYU, New York (11/1)
Asynchronous Learning Networks
UM-Dearborn-Ford Lecture, Dearborn (11/14)

The Digital Age
 National Science Foundation, Detroit (11/19)
 Diversity in Higher Education
 National Academy of Sciences, Washington (12/4)
 Information Technology and the University
 Council of Scientific Societies, Washington (12/9)
 The Future of the Research University
 UM-Scientific Club, Ann Arbor (1/10)
 Beyond the Endless Frontier
 National Academy of Sciences, Washington (2/25)
 Stresses in the Academy
 Georgia Tech, Atlanta (3/7)
 Planning in Higher Education
 Iowa State, Ames (3/17)
 The Future of the Public Research University
 Eastern Michigan, Ypsilanti (4/4)
 Undergraduate Education
 NACUBO, Montreal (5/19)
 Change in Higher Education: Evolution or Revolution
 Michigan Tech, Houghton (5/26)
 Honorary Degree-Commencement
 Society of Neurosurgery, Ann Arbor (5/29)
 The Future of Intercollegiate Athletics
 Conference on Reinventing the University, Washington (7/19)
 Restructuring the Higher Education Enterprise
 Educom Summer Conference, Snowmass (9/2)
 Transforming the University to Enter the Digital Age
 The Conference Board, Chicago (9/28)
 Financing Higher Education in the New Millennium
 Whitaker Foundation, Washington (10/17)
 The Future of the American Research Enterprise
 Michigan Virtual Auto College
 Initial Negotiations (summer, 1996)
 Incorporation (12/96)
 Market Survey (12/96)
 Business Plan Development (2/97)
 Executive Committee Formation (2/97)
 Course Delivery (9/97)
 Michigan Technology Strategy
 State Planning Efforts
 Kellogg Efforts
 UM Team
 Development of broad vision and strategy
 UM Activities
 Michigan Virtual Auto College
 Virtual University
 Zanzibar Group
 New Learning Paradigms (Lynn Conway)
 Service Learning (Barry Checkoway)
 Teaching Activities
 "The Future of the University", Higher Education Program,
 School of Education, Fall Term
 "Change", Freshman Minicourse, Residential College

Winter Term

Professional Appointments

President, Michigan Virtual Automotive College, State of Michigan
appointed by Governor, confirmed by Board of Directors in Fall, 1996

Councillor, Executive Council, National Academy of Engineering
(election to 3 year term, commencing in July, 1997)

The Millennium Institute

Project Offices

Brochure

Staffing

Web Site

Television Station

Seminars and Workshops

External Contacts