

One Dupont Circle, Washington, D.C.

Mary Ann Mason, Marc Goulden, and Karie Frasch Berkeley Center on Health, Economic, and Family Security, University of California, Berkeley Claire Van Ummersen American Council on Education

Conference Discussion Synopsis

On April 21, 2010, key stakeholders and leaders in higher education, the federal government, and professional societies came together for a day-long conference to discuss problems in the academic pipeline for individuals with caregiving responsibilities, and consider joint solutions (see attached list of attendees). What resulted was a dynamic, engaging day of thoughtful discussions on a variety of topics, and a number of specific suggestions of actions that can be undertaken by both sectors to increase the success and competitiveness of American science.

Although issues related to leaks from the academic pipeline have received a great deal of attention in the last five or more years, there is general agreement that significant gaps persist. Family-focused policies have come as a result of a more general awareness of changing demographics and needs, but the frame of reference continues to be narrow. Both universities and federal agencies can do much more to broaden the scope of their activities and make it more possible for scientists to both have a family and succeed at all career stages.

What types of problems can be solved by universities? Which by federal agencies? And in which cases do they need to work together, along with the professional societies and organizations, to determine the best leverage points to act on?

This document is both a distillation of the conference discussions and a call to action. We hope that it will serve as a useful framework for upcoming work, and know that the synergy that can result from joint attention will be far more effective than by each continuing to work alone.

Thank you again for your participation and we look forward to continuing discussions in the months ahead.

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Major Areas to Address:

- 1. Communicate and market policies, programs, and grants
- 2. Bring family caregiving needs to the forefront
- 3. Support Principal Investigators
- 4. Cost out various programs and policies
- 5. Collect and analyze data, and evaluate the efficacy of policies and programs
- 6. Potential mechanisms for change

1. Communicate and Market Policies, Programs, and Grants

Universities and federal granting agencies can support and encourage policy and cultural change by clearly communicating an understanding and support for individuals in all stages of the academic pipeline. There are a tremendous amount of positive activities already going on that can be better promoted.

Create and publicize formal policy statements from top leadership

Issue prominent, formalized statements from top leadership (Chancellors, Presidents, federal granting agency Directors) about the importance of the academic science pipeline to the mission of the institution or agency, as well as the competitive success of the nation. Clear support from the top sustains policy as well as cultural change (see for example, the statement at the Office of Science, Department of Energy, http://www.science.energy.gov/bes/research_conduct_policies.html). Use the opportunity to highlight existing policies and programs.

Create working groups, workshops, and disciplinary-based programs

- Create working groups on women in science careers (such as the Working Group on Women in Biomedical Careers formed by former NIH Director Zerhouni and Co-Chaired by Vivian Pinn, Director of the NIH Office of Research on Women's Health, <u>http://womeninscience.nih.gov/workinggroup/index.asp</u>).
- Jointly host gender equity workshops that engage university department chairs, program officers, and faculty PIs (<u>http://www.er.doe.gov/bes/chm/Publications/URM_Report_021308_FINAL.pdf</u>).
- Initiate disciplinary-based programs at universities, such as Women in Engineering or Women in Physics programs to provide guidance and mentoring (<u>http://www.physics.umd.edu/wip/index.html</u>).
- Create FAQ pages that clearly answer questions regarding dependent care, child care, and parental leave (such as the ones currently available through NIH and NSF - at <u>http://grants.nih.gov/training/faq_childcare.htm</u>, <u>http://www.nsf.gov/pubs/2010/nsf10032/nsf10032.jsp</u>)</u>, with contact information to allow for follow-up or clarification when needed. Use these

tools to highlight many of the good things that are available to PIs, fellows, and individual employees working on grants.

- Think outside the box when it comes to highlighting new programs, policies, or grants by
 reaching out to professional societies, web-based list serves, or other appropriate nonacademic audiences (for example, NIH has a reentry grant program for individuals who have
 been out of the workforce but few have yet applied for it, available at
 http://grants.nih.gov/grants/guide/pa-files/pa-08-191.html).
- Create a web page providing descriptions and links to all of the various programs and policies that support women or individuals with caregiving responsibilities at federal granting agencies and institutions of higher education (e.g., the 2-month parental leave policy at the NSF Earth Sciences program, *available at <u>http://www.nsf.gov/pubs/2010/nsf10500/nsf10500.htm</u>).*

2. Bring Family Caregiving Needs to the Forefront

The success of American science depends on taking advantage of all the talent and potential talent that exists in the academic pipeline. Individuals with current family caregiving responsibilities, or those who are imagining how to balance a successful scientific career with a family will be buoyed with the knowledge that policies are in place to provide flexibility over the career life course.

Broaden the thinking about family responsive policies to include all classes of researchers

• Expand the frame of reference for family responsive policies from those primarily focused on faculty to include doctoral students, postdoctoral associates, and academic researchers.

Broaden the thinking about family responsive policies to include *all phases of academic careers*

• Broaden the conception that caregiving needs only occur at the time of birth or adoption to recognize the changing needs that occur throughout the academic career life span (e.g., personal or family illness, elder or adult dependent caregiving needs, etc.).

Provide a minimum baseline of family responsive leave for birth and adoption

Meet the caregiving needs of all classes of researchers (i.e., doctoral students, postdoctoral associates, academic researchers, and faculty) through the provision of a consistent minimum level of paid family responsive leave, without limitations that prohibit access to it, of at least six weeks for birth mothers and two weeks for secondary caregivers.

Allow part-time effort for postdoctoral associates with caregiving responsibilities

• Collaborate (between universities, federal granting agencies, and professional organizations) to evaluate and reconsider the full-time or no-time requirement for postdoctoral positions.

Flexibility within the postdoc years, either through the option of part-time effort (e.g., twothirds time for three years instead of full-time for two) or extensions of the fellowship period will support women and men in family formation and in meeting their family caregiving needs (see for example, the policy of the European Molecular Biology Organization [EMBO], available at <u>http://fellowsnet.embo.org/faqs/305-maternity-leave-a-child-caresupport.html</u>).

Support re-entry, including grants for those who have stopped out

• Engage in collaborative discussions between universities and federal granting agencies about the nature of "stopping out," which usually is not as long as people imagine. Look to the corporate sector for examples about expectations and programs.

3. Support Principal Investigators

Clarify the use of no-cost extensions

• Provide a list of the possible range of reasons for the use of a no-cost extension, including to meet the family caregiving needs of the Principal Investigator and/or those working on their grants (e.g., doctoral students, postdoctoral scholars).

Create and provide supplements to support family caregiving responsibilities

• Collaborate to decide how to best support PIs when they or someone working on their grant needs to take time out for caregiving related purposes. Specifically, create a mechanism for PIs to access supplemental funds to hire a temporary employee (e.g., a lab manager or technician, or a doctoral student) when they or another individual is out on leave. Agencies can provide express support for the provision, and work with universities to decide how to best implement it (e.g., fringe benefits, central pool of funds).

Create FAQ pages for PIs

• Universities and Federal Agencies collaborate to decide what the key caregiving-related questions are for Principal Investigators running a grant. Create a FAQ to cover questions, such as "What are the responsibilities of the PI if their employee (i.e., doctoral student, postdoctoral associate) has a family caregiving need such as a family emergency, a new child, etc." "What does the PI do if the institution they work for does not have a policy in place to allow the use of a policy issued by the federal granting agency?"

4. Cost Out Various Programs and Policies

The common assumption is that the cost of programs and policies to support individuals in the academic pipeline with caregiving responsibilities will be high. It is therefore important to carefully assess costs and find those programs that will have the biggest bang for the buck. Family responsive policies and programs typically cost significantly less than assumed.

The AAU could consider the potential costs associated with various policies by conducting assessments of existing policies at universities around the country and providing them as examples for others. For example, how much does it cost for institutions to provide dependent care grants to doctoral students, postdocs, and faculty when needed for travel to conferences (e.g., Princeton provides up to \$500/year for dependent care conference expenses at a cost of approximately \$25,000/year, available at http://gradschool.princeton.edu/studentlife/childcare/dependent_care_travel_fun/)?

5. Collect and Analyze Data, and Evaluate the Efficacy of Policies and Programs

Increase institutional and agency capacity for data collection in order to evaluate whether and how the policies and programs introduced by institutions of higher education and federal granting agencies are working as intended. This is necessary to measure progress and identify gaps.

- Create more synergy between databases at federal granting agencies and institutions through the formation of a joint partnership. Potentially use existing vehicles such as AAUDE (the Association of American Universities Data Exchange) and databases at the federal granting agencies.
- Examine the efficacy of existing policies for example, is tenure clock extension a good policy? Are there unintended consequences, particularly in how it is administered? How much does the provision of institution-based child care services and supports make a difference to the success of faculty? And consider the broader academic landscape policies, culture, leadership as they affect success.

6. Potential Mechanisms for Change

Organizations exist (see below) that can be helpful conduits for moving forward changes. However, it is ultimately the universities and the federal granting agencies that will need to work in concert to shepherd through the policies, programs, and other activities that are most likely to have the biggest impact on the science pipeline.

Organizations:

• The National Academies Federal Demonstration Partnership (FDP) under the Government University Industry Research Roundtable (GUIRR)

The FDP has a number of collaborative working groups that cover particular topics related to reducing the administrative burdens associated with research grants and contracts. The FDP could potentially take on some of these topical areas as a working group (http://sites.nationalacademies.org/PGA/fdp/index.htm).

Association of American Universities (AAU)

"AAU programs and projects address institutional issues facing its member universities, as well as government actions that affect these and other universities. AAU works to maintain the productive partnership between the nation's research universities and the federal government. The major activities of the association include federal government relations, policy studies, and public affairs (<u>http://www.aau.edu/</u>)."

• Association of American Universities Data Exchange (AAUDE)

"The Association of American Universities Data Exchange (AAUDE) is a public service organization whose purpose is to improve the quality and usability of information about higher education. Our membership is comprised of AAU institutions that support this purpose and participate in the exchange of data/information to support decision-making at their institution (<u>http://www.aaude.org/</u>)"



Berkeley Center on Health, Economic & Family Security

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2850 Telegraph Avenue, Suite 500 Berkeley, CA 94705-7220 Phone: (510) 642-8527 Email: <u>CHEFS@law.berkeley.edu</u>



American Council on Education

Center for Effective Leadership One Dupont Circle NW Washington, DC 20036-1193 Phone: (202) 939-9300 Email: <u>cel@ace.nche.edu</u>



Alfred P. Sloan Foundation

630 Fifth Avenue Suite 2550 New York, NY 10011-0242

Appendix A

CONFERENCE ATTENDEES – April 21, 2010					
Mary Ann Mason	Faculty Co- Director, Berkeley Center on Health, Economic & Family Security	University of California, Berkeley	<u>mamason@berkeley.edu</u>		
Marc Goulden	Director of Data Initiatives	University of California, Berkeley	goulden@berkeley.edu		
Karie Frasch	Senior Academic Researcher and Policy Analyst	University of California, Berkeley	kfrasch@berkeley.edu		
Claire Van Ummersen	Vice President, Center for Effective Leadership	American Council on Education	Claire_van_ummersen@ace.nche.edu		
Kate Quinn	Associate Project Director	American Council on Education	Kate_quinn@ace.nche.edu		
Jean McLaughlin	Research Associate	American Council on Education	Jean_mclaughlin@ace.nche.edu		
Janet Bandows Koster	Executive Director	Association for Women in Science	koster@awis.org		
Deborah Bassard	HR Manager	Georgetown University Medical Center	bassardd@georgetown.edu		
Robert Berdahl	President	Association of American Universities	chanclor@berkeley.edu		
Linda Blevins	Senior Technical Advisor	Department of Energy	Linda.blevins@science.doe.gov		
Kathleen Christensen	Program Director	The Alfred P. Sloan Foundation	Christensen@sloan.org		

Janine Clayton	Deputy Director, Office of Research on Women's Health	National Institutes of Health	Janine.smith@nih.gov
Jessie DeAro	Senior Policy Analyst	White House Office of Science and Technology Policy	jdearo@ostp.eop.gov
Catherine Didion	Senior Program Officer	National Academies	cdidion@nas.edu
Bob Drago	Senior Economist	Joint Economic Committee of Congress	drago@psu.edu
Joan Girgus	Special Assistant to the Dean of the Faculty, Professor of Psychology	Princeton University	girgus@princeton.edu
Cathee Johnson Phillips	Executive Director	National Postdoctoral Association	<u>cjphillips@nationalpostdoc.org</u>
Brit Kirwan	President	University System of Maryland	<u>bkirwan@usmd.edu</u>
Fae Korsmo	Senior Advisor, Office of the Director	National Science Foundation	<u>fkorsmo@nsf.gov</u>
Andrew Pratt	Managing Editor, Science Progress	Center for American Progress	apratt@americanprogress.org
Walter Schaffer	Director of Training	National Institutes of Health	Walter.schaffer@nih.gov
Audrey Trotman	National Education Program Leader	USDA, National Institute for Food and Agriculture	<u>Audrey.Trotman@usda.gov</u>

OTHER INVITEES			
Nancy Allen	Special Assistant to the Provost for Faculty Diversity and Development	Duke University	<u>Nancy.allen@duke.edu</u>
Nathan Bell	Director of Research	Council of Graduate Schools	nbell@cgs.nche.edu
Suzanne Gelderman	Acting Associate Director, Office of Small Business	Department of Energy	Suzanne.gelderman@ha.doe.gove
Evelynn Hammonds	Dean of Harvard College	Harvard University	Evelynn_hammonds@harvard.edu
Heather Higginbottom	Deputy Director, DPC	Domestic Policy Council	Heather_ahigginbottom@who.eop.gov
Steven Knapp	President	George Washington University	<u>mkaplan@gwu.edu</u>
Kelly Mack	Program Director, ADVANCE	National Science Foundation	<u>kmack@nsf.gov</u>
Mary Anne Mahin	VP and Chief HR Officer	Georgetown University	mahinm@georgetown.edu
Brenda Manuel	Assistant Adminstrator for Diversity and Equal Opportunity	National Aeronautics and Space Administration	Brenda.r.manuel@nasa.gov
Patrice McDermott	Vice Provost for Faculty Affairs	University of Maryland, Baltimore County	mcdermott@umbc.edu

Peter McPherson	President	Association of Public and Land- Grant Universities	pmcpherson@nasulgc.org
Jonathan Moreno	Senior Fellow	Center for American Progress	jmoreno@americanprogress.org
Kathie Olsen	Deputy Director (former) Senior Advisor	National Science Foundation	<u>kolsen@nsf.gov</u>
Sally Rockey	Acting Deputy Director for Extramural Research	National Institutes of Health	<u>Sally.rockey@nih.gov</u>
William Russel	Dean of the Graduate School	Princeton University	graddean@princeton.edu
Debra Stewart	President	Council of Graduate Schools	President@cgs.nche.edu
Tina Tchen	Executive Director	White House Council on Women and Girls	<u>Christina_tchen@who.eop.gov</u>
Miguel Torres	Director, Program Planning and Evaluation Division	National Aeronautics and Space Administration	<u>mtorres@nasa.gov</u>