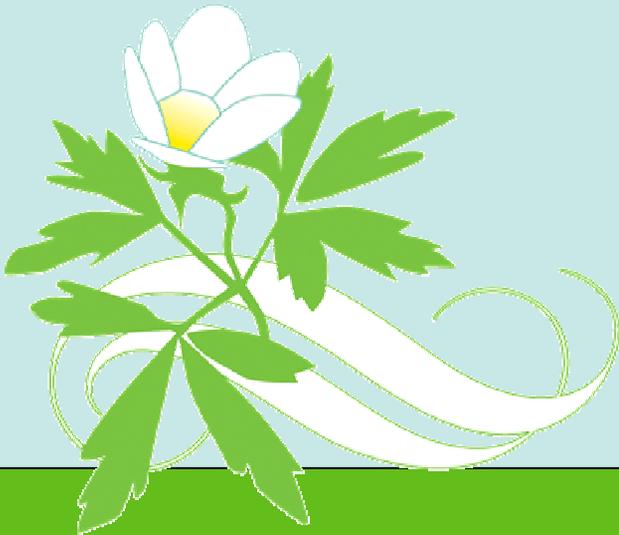


The Bologna Process

Bergen, 19-20 May 2005

*The U.S. Ph.D. In a "Flat" World
Challenge and Response to the Established Paradigm*

*Debra W. Stewart
President, Council of Graduate Schools*





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“When the world is flat you can innovate without having to emigrate.”

Tom Friedman, *The World is Flat: A Brief History of the 21st Century*.





The U.S. Ph.D.: Advantages in a Round World

- Synergy between Doctoral Education and Research
- Active Graduate Schools
- Established Graduate “Plan of Study” Template
- Diverse and Competitive Funding Sources
- Institutional Autonomy
- National Program Assessment (NRC)





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The Flattening World: Key Features of the New Reality

- Globalization of Graduate Education Marketplace
- Underdeveloped Supply of U.S. Talent in S&T
- Increased Demand for Graduate Programs to Prepare Students for Jobs They Get

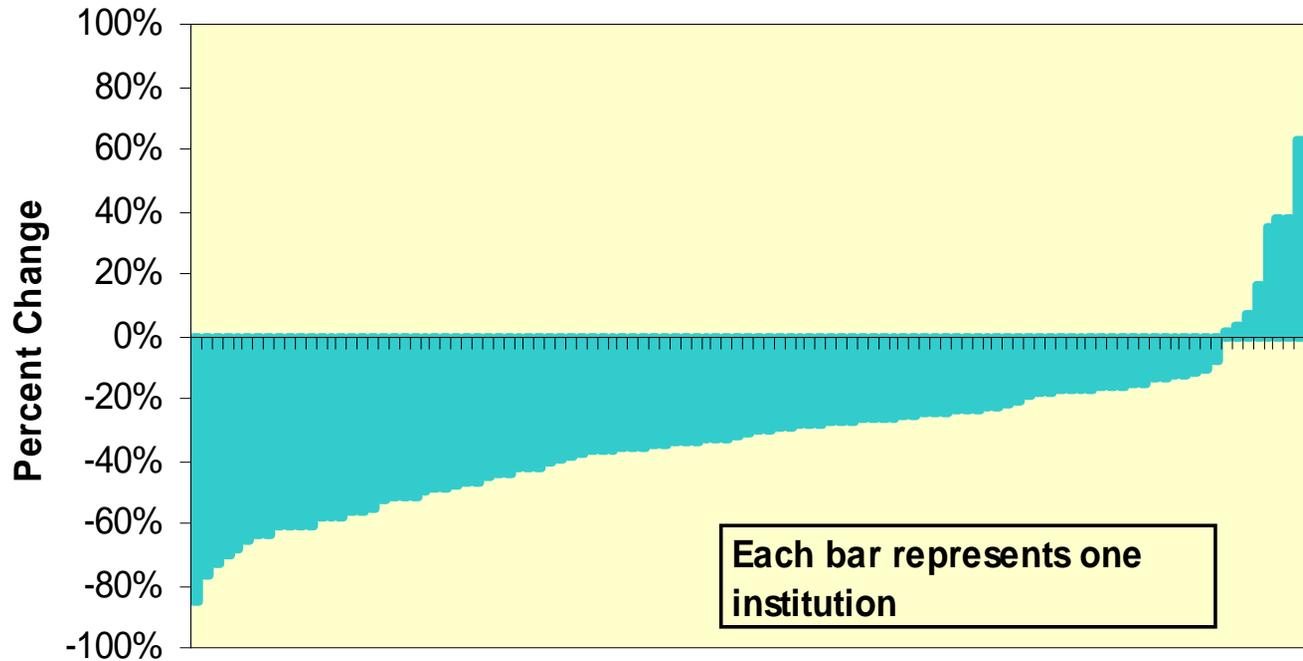




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Changes in International Graduate Student Applications to U.S. Graduate Schools 2003-2004



Source: CGS Survey of International Graduate Admissions, 2004

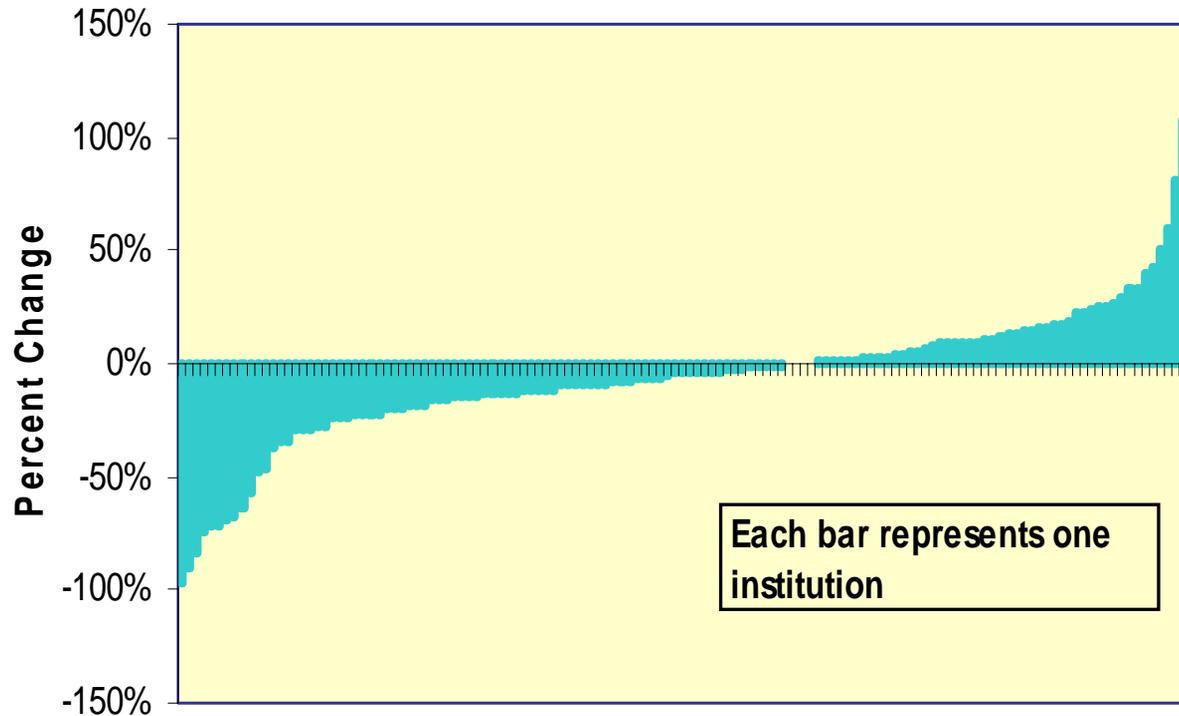




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Changes in International Graduate Student Applications to U.S. Graduate Schools 2004-2005



Source: CGS Survey of International Graduate Admissions, 2005

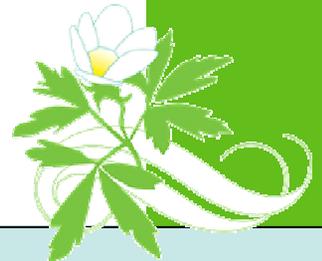
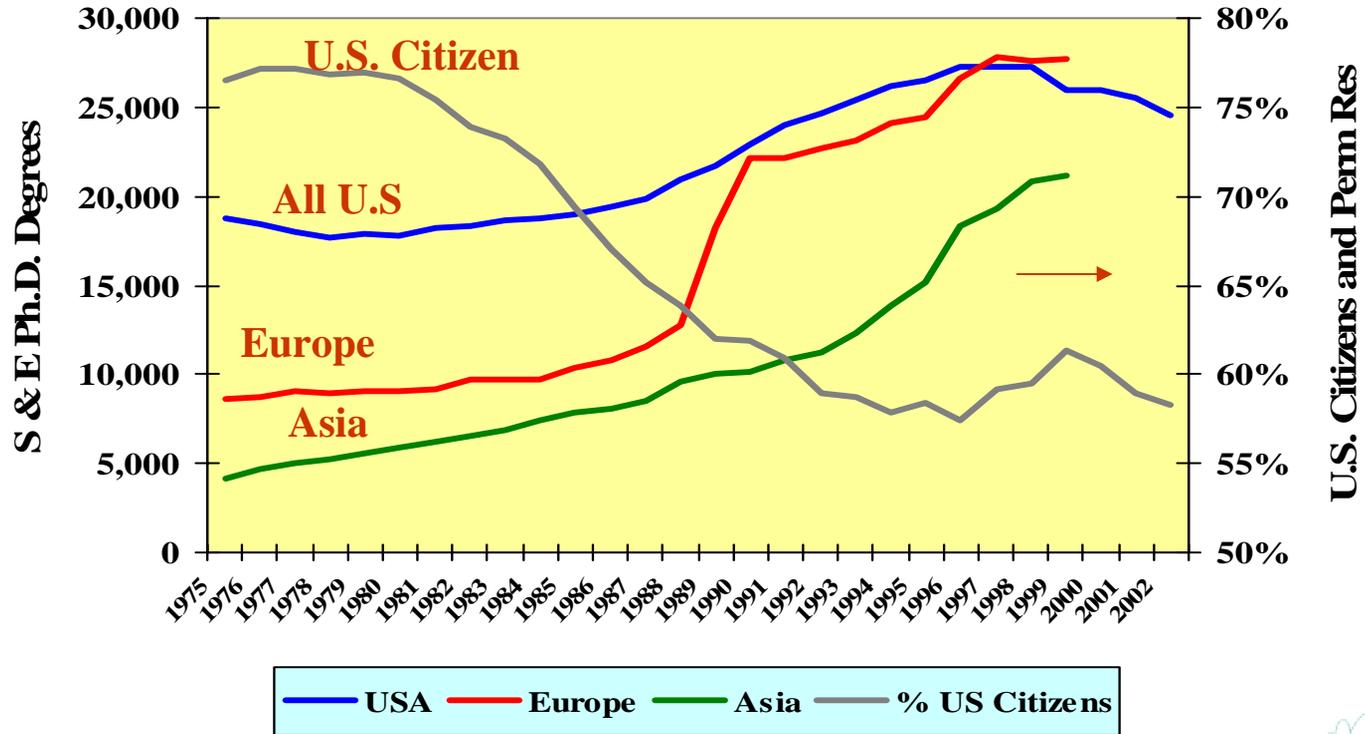




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Doctoral S&E Degrees by World Region





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So a Flat World Creates New Challenges





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Current Challenges to the U.S. Ph.D. Enterprise

- The Pipeline
- Productivity
- Preparation for Career Success
- Financial Pressures





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Tuition/Fees Paid and Average Support Provided Per Full-Time Doctoral Student

	Tuition and Fees Paid	Average Support Provided
Public (in-state)	\$4,243	\$29,929
Private	\$14,420	\$47,129
Average	\$8,070	\$37,324

Source: National Center for Education Statistics. 2002. *Digest of Education Statistics, 2002*.





U.S. Graduate Schools Respond

- **The Pipeline**
 - Enhanced Development of Domestic Talent Pool
 - Enhanced Outreach to International Students
 - **Productivity**
 - Nation-wide Focus on Attrition, Completion, and Time-to-Degree
 - **Preparation for Career Success**
 - Generic/Professional Skills
 - Interdisciplinary Doctoral Programs
- *All Above Without Sacrificing Quality*
- **Financial Pressures**
 - Requires a Federal Response....





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Graduate Education's Message to Our Government

U.S. prosperity tied to prosperity of
graduate education.

Graduate education is a private good
with a public purpose.

Flat world means "co-opetition." We will
need to find ways of competing and
cooperating at same time.

