Archived Information

Commission on the Future of Secretary of Education's Higher Education

Quality Subcommittee

December 9, 2005 Nashville, TN

Guiding Principle

be Assessed and Enhanced from Quality of Higher Education must a Global Perspective

Possible Starting Points for our Task

- Define Quality and Excellence.
- Consider Key Roles not included in A3.
- Delineate and sustain existing strengths of U.S. Higher Education..
- Focus on Urgent Recommendations of Recent National Reports

Access/Affordability/Accountability Key Roles not included in

Access/Affordability/Accountability

Key Roles not included in

Defining Quality and

Excellence

- Education
- Undergraduate
- Graduate
- Life-Long/Continuating Professional

Regional/Mission Context

Utilitarian

 For the Student Institutional

- Creating Opportunity
- Development of the Individual
- Widening Vistas and Capabilities

Research Scholarship

Independent Critic

Conservator of Values and Culture

Knowledge Generation/Discovery

- Economic Development
- Advancing Innovation

Delineate and sustain U.S. Higher Education's Existing Strengths

- Diversity of institutions
- Multiple Funding Sources
- Market Forces Intellectual and Financial
- Magnet for International Students and Scholars
- Decentralized, Agile System
- Supportive Public Policies
- Research Partnership with Federal Government

Recommendations of Recent National Reports Focus on Urgent

- Rising Above the Gathering Storm, National Academies
- Sustaining the Nation's Innovation Ecosystem, PCAST Innovate America, Council on Competitiveness
- Waiting for Sputnik, CSIS
- Engineering 2020, NAE
- Assessing the Capacity of the U.S. Engineering Research Enterprise, NAE

Gathering Storm for 12/9 Meeting Focus on Rising Above the Quality Subcommittee

- Specificity and Timeliness
- Centrality of Higher Education in Recommendations
- Recommended by Sec. of Energy Bodman at Commission's first meeting
- Participation of Senator Alexander

Committee on Prospering in (National Academies) the 21st Century

- Study Requested by Senators Lamar Alexander and Jeff Bingaman, joined by others.
- Question addressed:

What ten actionable items should the that the U.S. will prosper in the global Federal Government undertake to ensure

> 10,000 Teachers, 10 Million Minds Rising Above the Gathering Storm

improving K-12 science and Increase America's talent pool by vastly mathematics education

Rising Above the Gathering Storm

Sowing the Seeds Through Science and Engineering Research

- Sustain and strengthen the nation's commitment to long-term basic research.
- Potentially transformational
- Maintain the flow of new ideas that
- fuel the economy,
- provide security, and
- enhance quality of life

Rising Above the Gathering Storm

Best and Brightest in Science and Engineering Higher Education

- Make the United States the most attractive setting in which to study and perform research so that we can:
- Develop, recruit, and retain the best and brightest students, scientists, and engineers
- From within the U.S.
- From around the world

Rising Above the Gathering Storm

the Investment Environment Incentives for Innovation and

- Ensure that the United States is the
- premier place in the world to innovate Invest in downstream activities such as
- Create high-paying jobs that are based on manufacturing and marketing.
- Modernizing the patent system
- Realigning tax policies to encourage innovation
 Ensuring affordable broadband access.

Rising Above the Gathering Storm

Higher Education's Opportunities Recommendations relevant to and Responsibilities

Rising Above the Gathering Storm

10,000 Teachers, 10 Million Minds

- 4-year scholarships annually for 10,000 college students
- Bachelor's degree in science, engineering, or mathematics
- Concurrent K-12 certification
- Commitment to teach for 5 years in public

Rising Above the Gathering Storm

10,000 Teachers, 10 Million Minds

- Strengthen skills of 250,000 teachers
- Summer Institutes
- programs

Science and mathematics master's

- Train 70,000 AP or IB instructors, and 80,000 pre-AP or pre-IB instructors
- Freely available K-12 curricular materials

based on world-class standards

Sowing the Seeds Rising Above the Gathering Storm

- Increase Federal investment in long-term basic research by 10% a year for the next 7
- Research Grants to 200 outstanding Early-Career researchers
 \$500 millionlyr research infrastructure fund
- for next 5 years
- 8% of agency research budgets for high-risk

Best and Brightest Rising Above the Gathering Storm

- 25,000 new 4-year UG scholarships to increase number and proportion of U.S. citizens earning BS degrees
 5,000 new graduate fellowships for U.S. citizens in "areas of national need."
- Federal tax credits to employers for continuing
- Continue to improve visa processing for international students and scholars.

Rising Above the Gathering Storm Best and Brightest

- 1-year automatic visa for STEM PhD graduates to seek employment in U.S.
- New skills-based preferential immigration option
- Reform the "Deemed Export" system

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Some things we will explore going forward

Maintaining a robust group of world-class universities

- AAU-class public universities are particularly at risk.
- Pedagogy, learning and technology must be explored.
- Several topics associated with globalization must be developed

Other Important Topics

- The purpose of education
- Leading vs. Reacting
- Institutional Characteristics for the 21st century
- NimbleInternational
- -- Resourceful -- Diverse
- Robust
- Flexible system of higher education; Not a centrally-planned monolith.