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STEM Collaborative Action Plan (STEMCAP) Forum/Working Group Session

Angela Phillips Diaz

Director,

Strategic Communication and Development

NASA Ames Research Center

More Than 20 Years of STEM Education Reports

1983

2006

NASA Retirement Statistics

- NASA's Office of Human Capitol reports:
  - In 2004, NASA had 18,325 civil service employees
  - 32% of science & engineering workforce is over 50
  - 40% of the Professional Administrative staff is over 50
  - 2,675 people will retire between 2004-2009
  - An average retirement rate of 12-14% per year

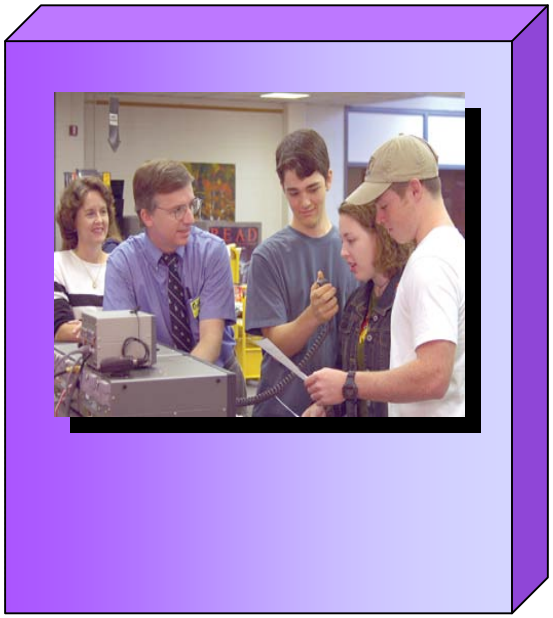
Age	S& E	Prof'l Admin	Clerical	Technician
Under 30	442	171	109	7
30 to 39	2,688	854	267	259
40 to 49	4,101	1,636	351	690
50 to 59	2,267	1,607	390	622
60 and Older	1,153	266	114	136

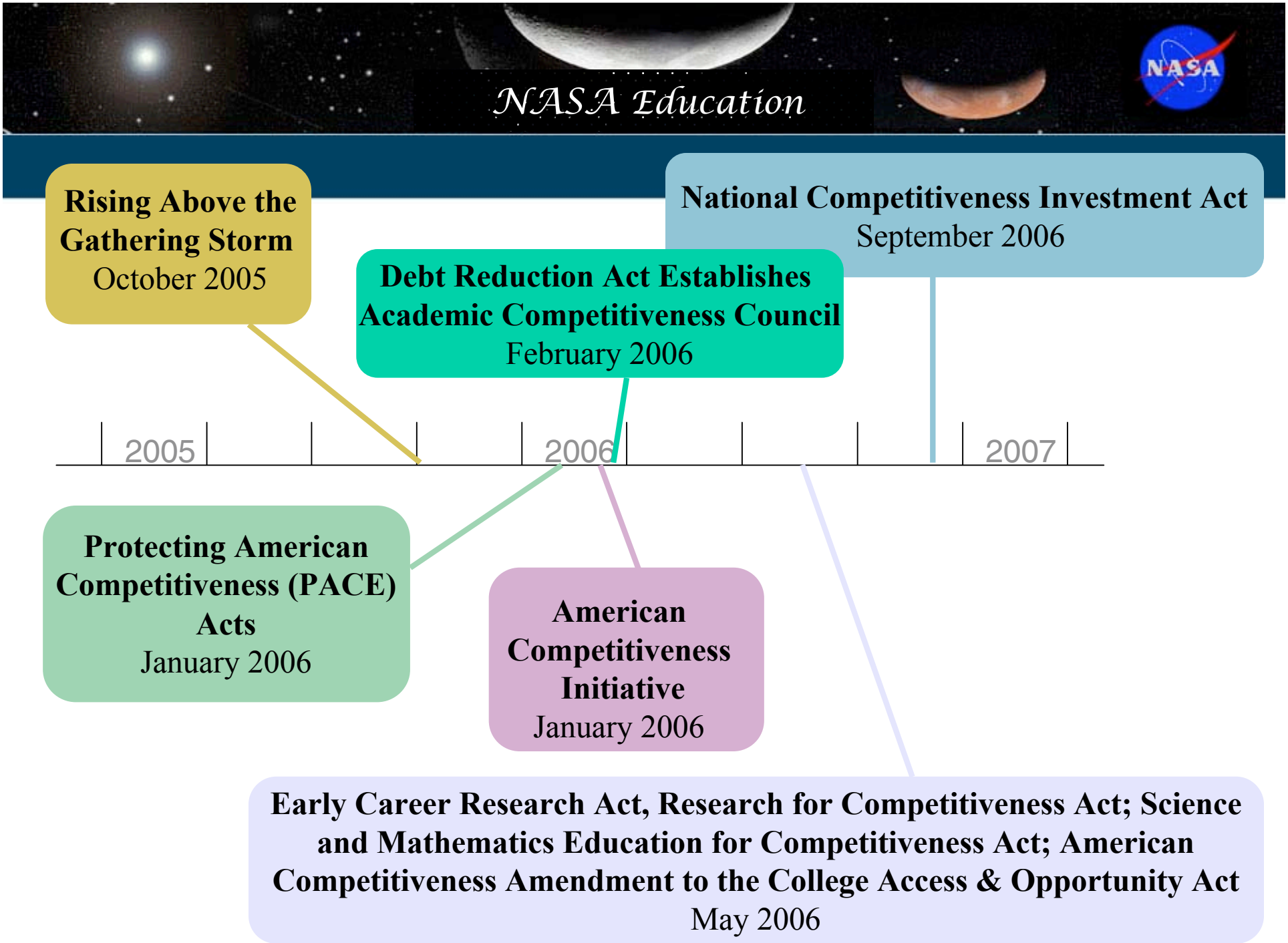
Age	HQ	ARC	GRC	LARC	DFRC	GSFC	MSFC	SSC	JSC	KSC
Average Age	48	47.9	47.1	46.2	45.9	46.1	45.3	44.3	45.2	45.1

Science Technology Engineering and Mathematics are Critical

WHAT WE KNOW

- Science, Technology, Engineering and Mathematics Education (STEM) are critical to the United States' competitiveness.
- Foundation of America's competitiveness is a well-educated work force.
- The fields of physical science and engineering are especially important.
- Students must be engaged at an early age and supported through advanced studies.
- Partnerships and collaborations are an important part of NASA strategy to reach students.




NASA Education
NASA
Rising Above the Gathering Storm
October 2005
National Competitiveness Investment Act
September 2006
Debt Reduction Act Establishes Academic Competitiveness Council
February 2006
2005
2006
2007
Protecting American Competitiveness (PACE) Acts
January 2006
American Competitiveness Initiative
January 2006
Early Career Research Act, Research for Competitiveness Act; Science and Mathematics Education for Competitiveness Act; American Competitiveness Amendment to the College Access & Opportunity Act
May 2006

Academic Competitiveness Council

- Feb 2006 Debt Reduction Act signed into law including the establishment of the "Academic Competitiveness Council" plus additional funding for students enrolled in STEM careers
  - Council Chair is the Secretary of Education
  - Members include Cabinet Secretaries & Representatives of 13 Fed agencies who have education programs including NASA
  - Council's mission: to evaluate the effectiveness of each program, identifying areas of overlap and recommending ways to efficiently integrate and coordinate in the future.
  - Council's Report due Feb 2007

NASA Education

NASA's Education Portfolio Strategic Framework