

2006 JOINT ANNUAL MEETING

program book

06

NATIONAL SCIENCE FOUNDATION
DIVISION OF HUMAN RESOURCE DEVELOPMENT

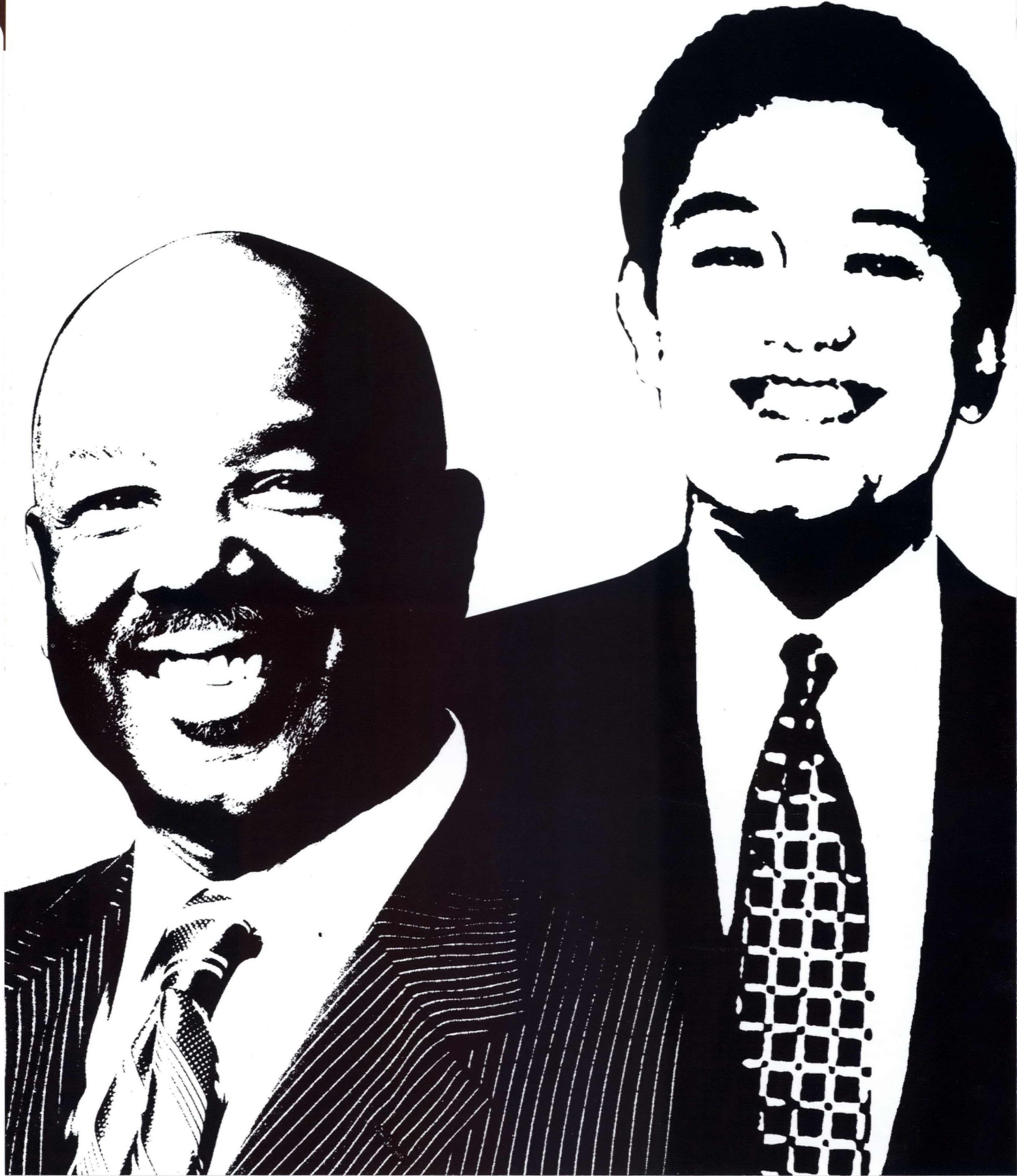
MARCH 15 - 17, 2006
GRAND HYATT HOTEL WASHINGTON, DC



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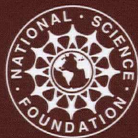
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National Science Foundation

4201 Wilson Boulevard
Arlington, Virginia 22230



OFFICE OF THE
ASSISTANT DIRECTOR
FOR EDUCATION AND
HUMAN RESOURCES

March 1, 2006

Dear 2006 JAM Participants:

On behalf of the Directorate for Education and Human Resources, I want to personally welcome you to the Division of Human Resource's 2006 Joint Annual Meeting. We take great pride in hosting this annual event because it represents one of the largest NSF-sponsored gatherings of educators who share a dedication and commitment to attracting, retaining, and producing a diverse group of talented professionals in science, technology, engineering, and mathematics (STEM).

Increasing the number of intellectually competent and well-trained scientists and engineers is crucial to our nation's global competitiveness and economic sustainability, as evidenced by recent proposed legislation, the numerous magazine/journal articles on America's STEM capacity, and your presence at this meeting. Parallel with this growing national interest in STEM education and training, EHR is rethinking and evaluating our current strategies to ensure that our methods are best serving students, educators, and the science education community. I encourage you to take advantage of this unique opportunity to explore innovative frameworks that will help us sustain and improve our strategic approach to better meet the pressing needs of our country.

I look forward to interacting with you over the next couple of days and thank you again for your efforts in broadening participation in STEM. As always, you are to be commended.

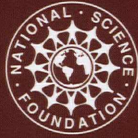
Sincerely,

A handwritten signature in black ink, appearing to read "D. Thompson", with a long, sweeping underline.

Donald E. Thompson
Assistant Director (Acting)
Directorate for Education and Human Resources

National Science Foundation

4201 Wilson Boulevard
Arlington, Virginia 22230



March 1, 2006

Dear 2006 JAM Participants:

I am delighted to welcome you to the 2006 Joint Annual Principal Investigator's Meeting on behalf of the National Science Foundation's Division of Human Resource Development. As the United States economy transitions into a knowledge-based economy, research and development play a growing role driving economic growth. The United States must therefore develop the science and engineering workforce needed to sustain expected rates of economic growth.

The institutions represented at this meeting have accepted this challenge by partnering with the National Science Foundation in efforts to broaden participation in the nation's science, technology, engineering, and mathematics enterprise. These partnerships improve the education of all students including underrepresented minorities, women, and persons with disabilities and encourage them to pursue science and engineering careers in academia, government, and industry.

Thank you for joining the National Science Foundation in our efforts to broaden participation in the nation's science and engineering enterprise. I wish you a very productive and enjoyable meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "Victor A. Santiago", with a long horizontal flourish extending to the right.

Victor A. Santiago
Acting Director
Division of Human Resource Development
National Science Foundation



Overall Program Agenda

Overall Program Agenda



PROGRAM AGENDA

All Programs

WEDNESDAY, MARCH 15 (Pre-Conference Workshop)

TIME	TOPIC	ROOM
12:00 - 5:00 pm	HBCU-UP and TCUP pre-conference meetings	Independence B-E and F-I
12:00 - 7:00 pm	REGISTRATION	Constitution Registration Desk

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 8:30 am	MORNING REFRESHMENTS	Independence Foyer
8:30 - 8:45 am	OPENING AND INTRODUCTION <i>Victor A. Santiago</i> <i>Acting Director</i> <i>Division of Human Resource Development</i> <i>National Science Foundation</i>	Independence Ballroom
	WELCOME AND REMARKS <i>Donald E. Thompson</i> <i>Acting Assistant Director</i> <i>Education and Human Resources</i>	
8:45 - 9:00 am	REMARKS AND INTRODUCTION <i>Arden L. Bement, Jr.</i> <i>Director</i> <i>National Science Foundation</i>	
9:00 - 9:40 am	KEYNOTE SPEAKER <i>Sara Martinez Tucker</i> <i>President and Chief Executive Officer</i> <i>Hispanic Scholarship Fund</i>	
9:40 - 10:00 am	PARTICIPANT QUESTIONS AND COMMENTS	
10:00 - 10:30 am	BREAK	
10:30 - 12:00 pm	PROGRAM BREAKOUT SESSION I	

continued on next page

PROGRAM AGENDA

All Programs

THURSDAY, MARCH 16 *continued*

TIME	TOPIC	ROOM
12:15 - 1:30 pm	LUNCH	Independence Ballroom
	INTRODUCTION <i>Donald E. Thompson</i>	
	SPEAKER <i>Invited:</i> <i>The Honorable Vernon J. Ehlers (R-Mich.)</i> <i>U.S. Representative</i> <i>3rd District, West Central</i> <i>Grand Rapids, MI</i>	
2:00 - 3:45 pm	PROGRAM BREAKOUT SESSION II	
4:00 - 5:00 pm	POSTER SESSION I - GROUP A*	Independence Ballroom
5:00 - 6:00 pm	POSTER SESSION II - GROUP B*	
5:30 - 7:00 pm	NETWORKING RECEPTION	

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 8:30 am	MORNING REFRESHMENTS	Independence Foyer
8:30 - 9:45 am	PROFESSIONAL DEVELOPMENT WORKSHOPS <i>Legislative and Congressional Affairs</i>	Constitution C-E
	<i>NSF Funding Opportunities</i>	Constitution A
	<i>Post Award Management/Monitoring/ Risk Management/Human Subjects</i>	Independence F-H
	<i>Project Evaluation</i>	Lafayette Park/ Farragut Square

PROGRAM AGENDA

All Programs

FRIDAY, MARCH 17 <i>continued</i>		
TIME	TOPIC	ROOM
9:45 - 10:15 am	BREAK	
10:15 - 11:30 am	PROFESSIONAL DEVELOPMENT WORKSHOPS (Resume)	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
	INTRODUCTION <i>Thomas L. Windham</i> <i>Senior Advisor for Science and Engineering Workforce</i> <i>National Science Foundation</i>	
	SPEAKER <i>William McCarthy</i> <i>Principal Investigator and Project Director</i> <i>Regional Alliance for Science, Engineering, and Mathematics Squared for Students with Disabilities (RASEM²)</i>	
1:30 - 4:30 pm	PROGRAM BREAKOUT SESSION III	

SPECIAL THANKS

Thank you to the following program staff for their contributions and support in the planning activities associated with this year's Joint Annual Meeting.

- *David Temple, Program Director (2006 JAM Planning Committee Chair)*

- Pamela Bailey, Administrative Manager
- April Boyd, Science Assistant
- James T. (J.T.) Clark, IT Specialist, Office of the Assistant Director
- Cynthia Douglas, Management Operations Assistant
- Martha James, Assistant Program Director
- Jolene Jesse, Program Director
- Camille McKayle, Program Director
- Denise Spain, Program Specialist
- Gloria Strothers, Program Specialist

PROGRAM EVALUATION FORMS ▶

OVERALL PROGRAM EVALUATION

March 16-17, 2006

5-OUTSTANDING, 4-EXCELLENT, 3-GOOD, 2-FAIR, 1-POOR, N/A (NOT APPLICABLE)	RATING SCORE
Helpfulness of pre-meeting materials (including website)	<input type="text"/>
Registration & hospitality table	<input type="text"/>
Quality of meeting materials	<input type="text"/>
Quality of hotel services (lodging/meals)	<input type="text"/>
Location of meeting facility	<input type="text"/>
Quality & arrangement of meeting rooms & audio visual aids	<input type="text"/>
Ability to locate meeting rooms	<input type="text"/>
Effectiveness of keynote speaker	<input type="text"/>
Effectiveness of luncheon speakers	<input type="text"/>
Quality of poster sessions	<input type="text"/>
Effectiveness of reception/networking session	<input type="text"/>
Staff visibility & responsiveness	<input type="text"/>
Joint Annual Meeting schedule	<input type="text"/>
Overall quality of Joint Annual Meeting	<input type="text"/>

WHAT PART OF THE JAM MEETING WAS MOST BENEFICIAL FOR YOU?

WHAT PART OF THE JAM MEETING WAS LEAST BENEFICIAL FOR YOU?

WHAT RECOMMENDATIONS WOULD YOU MAKE FOR NEXT YEAR?

PROFESSIONAL DEVELOPMENT WORKSHOP EVALUATION LEGISLATIVE AND CONGRESSIONAL AFFAIRS

Friday, March 17 – 8:30 AM to 9:45 AM & 10:15 AM to 11:30 AM

5-OUTSTANDING, 4-EXCELLENT, 3-GOOD, 2-FAIR, 1-POOR, N/A (NOT APPLICABLE)	RATING SCORE
Knowledge and preparation of Moderator/Panelist(s)	<input type="text"/>
Effectiveness of presentation & discussion method(s)	<input type="text"/>
Usefulness of handouts/audiovisual aids	<input type="text"/>
Professional Development Workshop schedule	<input type="text"/>
Overall quality of Professional Development Workshop	<input type="text"/>

WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS MOST BENEFICIAL FOR YOU?

WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS LEAST BENEFICIAL FOR YOU?

WHAT RECOMMENDATIONS WOULD YOU MAKE FOR NEXT YEAR?

PROFESSIONAL DEVELOPMENT WORKSHOP EVALUATION NSF FUNDING OPPORTUNITIES

Friday, March 17 – 8:30 AM to 9:45 AM & 10:15 AM to 11:30 AM

5-OUTSTANDING, 4-EXCELLENT, 3-GOOD, 2-FAIR, 1-POOR, N/A (NOT APPLICABLE)	RATING SCORE
Knowledge and preparation of Moderator/Panelist(s)	_____
Effectiveness of presentation & discussion method(s)	_____
Usefulness of handouts/audiovisual aids	_____
Professional Development Workshop schedule	_____
Overall quality of Professional Development Workshop	_____

WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS MOST BENEFICIAL FOR YOU?

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WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS LEAST BENEFICIAL FOR YOU?

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WHAT RECOMMENDATIONS WOULD YOU MAKE FOR NEXT YEAR?

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PROFESSIONAL DEVELOPMENT WORKSHOP EVALUATION POST AWARD MANAGEMENT/MONITORING/RISK MANAGEMENT/HUMAN SUBJECTS

Friday, March 17 – 8:30 AM to 9:45 AM & 10:15 AM to 11:30 AM

5-OUTSTANDING, 4-EXCELLENT, 3-GOOD, 2-FAIR, 1-POOR, N/A (NOT APPLICABLE)	RATING SCORE
Knowledge and preparation of Moderator/Panelist(s)	_____
Effectiveness of presentation & discussion method(s)	_____
Usefulness of handouts/audiovisual aids	_____
Professional Development Workshop schedule	_____
Overall quality of Professional Development Workshop	_____

WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS MOST BENEFICIAL FOR YOU?

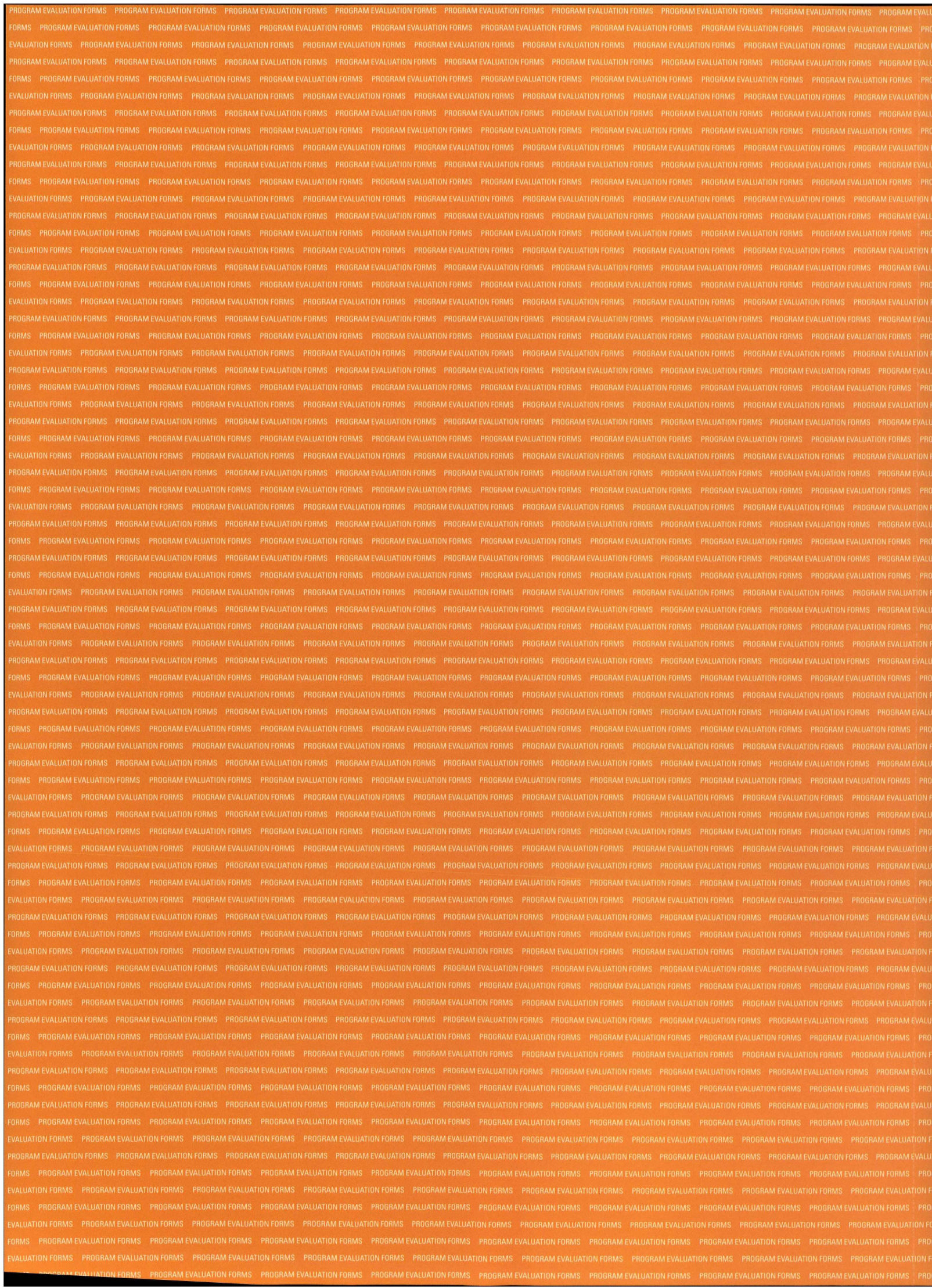
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WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS LEAST BENEFICIAL FOR YOU?

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WHAT RECOMMENDATIONS WOULD YOU MAKE FOR NEXT YEAR?

Blank response area for recommendations for next year.



PROFESSIONAL DEVELOPMENT WORKSHOP EVALUATION PROJECT EVALUATION

Friday, March 17 – 8:30 AM to 9:45 AM & 10:15 AM to 11:30 AM

5-OUTSTANDING, 4-EXCELLENT, 3-GOOD, 2-FAIR, 1-POOR, N/A (NOT APPLICABLE)	RATING SCORE
Knowledge and preparation of Moderator/Panelist(s)	_____
Effectiveness of presentation & discussion method(s)	_____
Usefulness of handouts/audiovisual aids	_____
Professional Development Workshop schedule	_____
Overall quality of Professional Development Workshop	_____

WHAT PART OF THE PROFESSIONAL DEVELOPMENT WORKSHOP WAS MOST BENEFICIAL FOR YOU?

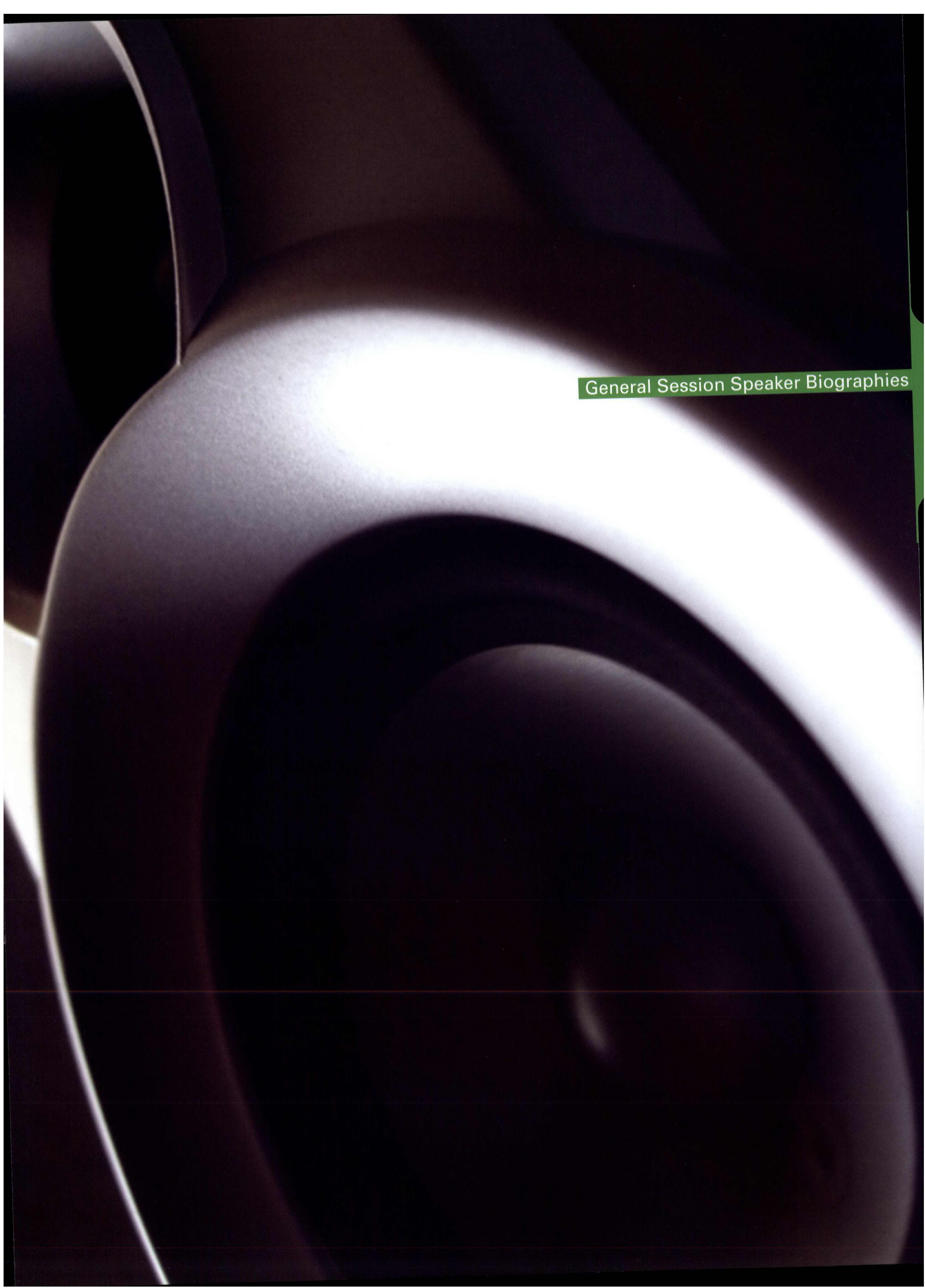
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WHAT RECOMMENDATIONS WOULD YOU MAKE FOR NEXT YEAR?

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General Session Speaker Biographies

General Session Speaker Biographies



INVITED SPEAKER BIOGRAPHIES



Sara Martinez Tucker (Keynote Speaker)

President and Chief Executive Officer
Hispanic Scholarship Fund

In 2005, TIME Magazine named Sara Martinez Tucker one of the 25 most influential Hispanics in America; Town & Country ranked her among the young, new breed of philanthropists. As president and CEO of the Hispanic Scholarship Fund (HSF), Ms. Tucker pursues an aggressive goal: to double the rate of Hispanics earning college degrees by 2010.

Under her leadership, HSF continues to expand its ability to meet the needs of Latino students and families. Her accomplishments include growing the organization's annual budget from \$3.5 million to more than \$40 million; raising a landmark \$50 million grant from Lilly Endowment Inc; and successfully stewarding the Hispanic portion of the \$1 billion Gates Millennium Scholars Program.

In her time at the helm of HSF, Ms. Tucker has generated funds for almost \$135 million in scholarships to more than 39,000 students, clearly establishing HSF as our country's premier Hispanic higher education organization. Recognizing that scholarships alone will not get HSF to its goal, she led the launch of community outreach programs to raise college expectations in Latino families and communities. To date, these programs have directly touched more than 65,000 students, parents, HSF alumni and community members.

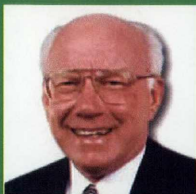
In September 2005, U.S. Department of Education Secretary Margaret Spellings appointed Ms. Tucker to the Commission on the Future of Higher Education. Ms. Tucker is also a founding board member of the National Center for Educational Accountability and the National Scholarship Providers Association. Since 2001, she has served on the 7-member North American Diversity Advisory board of Toyota Motor Corporation to raise employee awareness and provide counsel on diversity issues.

Prior to joining HSF in 1996, Ms. Tucker spent 16 years at AT&T, becoming the first Latina to reach the company's executive level. In her last assignment at the company, she served as a regional vice president for AT&T's Global Business Communications Systems, where she led a \$400 million division to its highest profit levels. Prior to this, Ms. Tucker was vice president for Consumer Operations, a \$370 million operation with 6,500 employees serving AT&T's 80 million consumers. Under her leadership, this group contributed to the division's receipt of the Malcolm Baldrige Quality Award.

A native of Laredo, Texas, Ms. Tucker received her undergraduate degree in journalism, graduating with honors from the University of Texas at Austin. She was a general-assignments reporter for the San Antonio Express before returning to U.T., where she received a master of business administration degree with high honors. More recently, Sara received an honorary doctorate in law from the University of Notre Dame and an honorary doctor of humane letters from Boston College.

Sara and her husband, Greg, live in San Francisco, California.

INVITED SPEAKER BIOGRAPHIES



The Honorable Vernon J. Ehlers (R-Mich.)

U.S. Representative
3rd District, West Central
Grand Rapids, Michigan

U.S. Representative Vernon J. Ehlers of Grand Rapids, Michigan, was sworn in on January 4, 2005, to serve his sixth full term in the U.S. House of Representatives. He was first elected to the 103rd Congress in a special election on December 7, 1993.

Ehlers joined Congress following a distinguished tenure of service in teaching, scientific research and public service. He has served on numerous boards and commissions and was elected to the Kent County (Mich.) Board of Commissioners, and the Michigan House and Senate. The first research physicist to serve in Congress, Ehlers has been recognized for his strong work ethic and proven leadership skills in his duties on Capitol Hill.

As a member of the 109th Congress, Ehlers serves on five committees. On January 19, 2006, Ehlers was appointed by House Speaker J. Dennis Hastert to serve as chairman of the House Administration Committee, which oversees operations of the House of Representatives, as well as the Smithsonian Institution, the National Zoo and the U.S. Botanical Gardens. It also plays a role in federal election legislation, among other issues. He has been a member of the committee since 1995 and was instrumental in the effort to connect the House of Representatives with the Internet and the creation of the Library of Congress' Thomas website, which allows anyone to look up legislation being considered by Congress, laws that have been passed and other information about Congress.

Ehlers also serves on the Science Committee, where he serves as chairman of the Subcommittee on Environment, Technology and Standards. During his tenure on the Science Committee, he oversaw in 1998 the writing of the nation's first major statement on science policy since 1945. He also co-chairs the STEM Ed Caucus, which is dedicated to improving the nation's K-12 science, technology, engineering and mathematics (STEM) education. On the Transportation and Infrastructure Committee, Ehlers has led efforts to secure a fair funding formula and more dollars for Michigan's roads, highways, and transit systems. In the 107th Congress, Ehlers led the development of the Great Lakes Legacy Act, which authorizes spending \$270 million over the next five years to clean up sediments in the Great Lakes. Ehlers also is a member of the Education and the Workforce Committee, where he blends his efforts with the Science Committee on improving math and science education. Ehlers has served on the Science Committee and Transportation and Infrastructure Committee since his arrival in Washington and joined the Education and the Workforce Committee in 1999.

After three years of studying at Calvin College in Grand Rapids, Ehlers transferred and received his undergraduate degree in physics and his Ph.D. in nuclear physics from the University of California at Berkeley in 1960. After six years teaching and research at Berkeley, he moved to Calvin College in 1966 where he taught physics for 16 years and later served as chairman of the Physics Department. During his tenure at Calvin, Ehlers also served as a volunteer science advisor to then-Congressman Gerald R. Ford.

INVITED SPEAKER BIOGRAPHIES



Dr. William C. McCarthy (Luncheon Speaker)

Principal Investigator / Project Director
Regional Alliance for Science, Engineering, and Mathematics Squared for
Students with Disabilities

William C. McCarthy is the Principal Investigator and Project Director (PI/PD) for the Regional Alliance for Science, Engineering, and Mathematics Squared for Students with Disabilities or RASEM². As PI/PD, he is responsible for the depth and direction of the NSF-sponsored program. RASEM², located in New Mexico and west Texas, is the first of four regional alliances funded through Research in Disabilities Education (RDE).

In 1981, Dr. McCarthy obtained his Ph.D. in structural engineering from New Mexico State University (NM.S.U) and became an assistant professor in the NM.S.U Civil Engineering Department. Subsequently, he was promoted to associate then full professor. In 1998, Dr. McCarthy left the Civil Engineering Department to become the Associate Dean and then Interim Dean of Engineering. His present position is the Interim Associate Provost at New Mexico State University in charge of student success and academic programs. He is a Registered Professional Engineer in New Mexico.

Dr. McCarthy has received numerous awards and recognitions over his tenure at New Mexico State University including the highest award for teaching in the College of Engineering, the university's prestigious Dennis Darnall Faculty Achievement Award, and the Chi Epsilon Southwestern District James M. Robbins Excellence in Teaching Award. He is a member of Phi Kappa Phi, Tau Beta Pi, and Chi Epsilon Honor Societies.

NATIONAL SCIENCE FOUNDATION SPEAKER BIOGRAPHIES



Dr. Arden L. Bement, Jr.

Director
National Science Foundation

Arden L. Bement, Jr., became Director of the National Science Foundation on November 24, 2004. He had been Acting Director since February 22, 2004.

He joined NSF from the National Institute of Standards and Technology, where he had been director since Dec. 7, 2001. As head of NIST, he oversaw an agency with an annual budget of about \$773 million and an onsite research and administrative staff of about 3,000, complemented by a NIST-sponsored network of 2,000 locally managed manufacturing and business specialists serving smaller manufacturers across the United States. Prior to his appointment as NIST director, Bement served as the David A. Ross Distinguished Professor of Nuclear Engineering and head of the School of Nuclear Engineering at Purdue University. He has held appointments at Purdue University in the schools of Nuclear Engineering, Materials Engineering, and Electrical and Computer Engineering, as well as a courtesy appointment in the Krannert School of Management. He was director of the Midwest Superconductivity Consortium and the Consortium for the Intelligent Management of the Electrical Power Grid.

Bement came to the position as NIST director having previously served as head of that agency's Visiting Committee on Advanced Technology, the agency's primary private-sector policy adviser; as head of the advisory committee for NIST's Advanced Technology Program; and on the Board of Overseers for the Malcolm Baldrige National Quality Award.

Along with his NIST advisory roles, Bement served as a member of the U.S. National Science Board from 1989 to 1995. The board guides NSF activities and also serves as a policy advisory body to the President and Congress. As NSF director, Bement will now serve as an ex officio member of the NSB.

He also chaired the Commission for Engineering and Technical Studies and the National Materials Advisory Board of the National Research Council; was a member of the Space Station Utilization Advisory Subcommittee and the Commercialization and Technology Advisory Committee for NASA; and consulted for the Department of Energy's Argonne National Laboratory and the Idaho National Engineering and Environmental Laboratory.

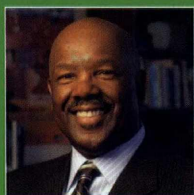
He currently serves as a member of the U.S. National Commission for UNESCO and serves as the vice-chair of the Commission's Natural Sciences and Engineering Committee.

Bement joined the Purdue faculty in 1992 after a 39-year career in industry, government, and academia. These positions included: vice president of technical resources and of science and technology for TRW Inc. (1980-1992); deputy under secretary of defense for research and engineering (1979-1980); director, Office of Materials Science, DARPA (1976-1979); professor of nuclear materials, MIT (1970-1976); manager, Fuels and Materials Department and the Metallurgy Research Department, Battelle Northwest Laboratories (1965-1970); and senior research associate, General Electric Co. (1954-1965).

NATIONAL SCIENCE FOUNDATION SPEAKER BIOGRAPHIES

He has been a director of Keithley Instruments Inc. and the Lord Corp. and was a member of the Science and Technology Advisory Committee for the Howmet Corp. (a division of ALCOA).

Bement holds an engineer of metallurgy degree from the Colorado School of Mines, a master's degree in metallurgical engineering from the University of Idaho, a doctorate degree in metallurgical engineering from the University of Michigan, an honorary doctorate degree in engineering from Cleveland State University, an honorary doctorate degree in science from Case Western Reserve University, and an honorary doctorate degree in engineering from the Colorado School of Mines. He is a member of the U.S. National Academy of Engineering and a fellow of the American Academy of Arts and Sciences.



Dr. Donald E. Thompson

Acting Assistant Director
Education and Human Resources
National Science Foundation

Donald Thompson has worked in higher education and government for more than 25 years. He has earned wide respect for his work in urban education administration and evaluation methodology. As a national and international consultant, Dr. Thompson has assisted both public and private sectors in refining systemic approaches to planning and program operations, establishing comprehensive human resource policies, and developing education policies and practices. He has provided guidance on systems evaluation and community planning to some of the nation's largest foundations.

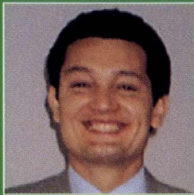
On January 1, 2005, Dr. Thompson was named Acting Assistant Director of the National Science Foundation (NSF) with responsibility for the agency's Education and Human Resources (EHR) Directorate and its extensive portfolio of programs to improve the teaching and learning of science, technology, engineering, and mathematics (STEM). He manages a budget of more than \$900 million, supporting 28 national and international programs with a staff of approximately 150 individuals. As a member of NSF's senior leadership, Dr. Thompson is charged with developing the programs and activities that build the Nation's human capital in science and engineering.

From January 2004 through December 2004, Dr. Thompson served as Deputy Assistant Director of EHR and, from August 2002 through December 2004, he served as Division Director for Human Resource Development in the EHR Directorate.

As a tenured professor of Urban Studies and Education, and a member of the graduate faculty at the University of Michigan's Flint and Ann Arbor campuses, Dr. Thompson taught courses in the fields of sociolinguistics, urban education, and statistics. Additionally, he served as the University's Director for the Division of Health, Education and Social Professions. He developed and directed the Office of Projects for Urban and Regional Affairs (PURA), which focused on evaluation and assessment of local municipalities and building capacity in urban settings.

NATIONAL SCIENCE FOUNDATION SPEAKER BIOGRAPHIES

At Western Michigan University, Dr. Thompson served in numerous capacities including Dean of the College of Education, Associate Vice-President for Academic Affairs, and Vice President for Research and Dean of the Graduate College. Dr. Thompson led the dramatic growth of research and graduate studies that catapulted the university to be ranked as one of the Nation's Doctoral Extensive Research Universities. Additionally, he worked to put in place a 347-acre business technology research park now housing more than 20 companies (along with the College of Engineering) focusing on life sciences, information technology, and the pharmaceutical industry.



Dr. Victor A. Santiago

Acting Director
Division of Human Resource Development
National Science Foundation

Victor A. Santiago is Acting Director of the National Science Foundation's Division of Human Resource Development (HRD). HRD serves as a focal point for NSF's agency-wide commitment to enhancing the quality and excellence of science, technology, engineering, and mathematics (STEM) education and research by broadening participation in STEM fields. HRD programs (1) diversify the human resource and institutional base on which the nation's performance in science, technology, engineering, and mathematics depends, (2) increase research and education opportunities for faculty - women, minorities, and persons with disabilities, and (3) increase the involvement of faculty from minority-serving institutions in the nation's STEM enterprise.

Prior to his appointment at the National Science Foundation, Dr. Santiago was an Associate Professor of Earth Science at Inter American University of Puerto Rico. There, he also held several administrative positions including Dean of Science and Technology. Dr. Santiago earned a Ph.D. at the University of Michigan.

NATIONAL SCIENCE FOUNDATION SPEAKER BIOGRAPHIES



Dr. Thomas L. Windham

Senior Advisor for Science and Engineering Workforce
National Science Foundation

Thomas L. Windham, Ph.D., Senior Advisor for Science and Engineering Workforce, is the NSF's focal point in addressing issues, strategies, and implementations centering on broadening participation of underrepresented groups in the science and engineering workforce.

Before coming to NSF, Dr. Windham served as Director and Principal Investigator for UCAR's Significant Opportunities in Atmospheric Research and Science (SOARS®) program (www.ucar.edu/soars). SOARS® is a multifaceted, multi-ethnic, multi-cultural science research and learning community at the University Corporation for Atmospheric Research (UCAR) and National Center for Atmospheric Research (NCAR), Boulder, CO. In December 2001, Dr. Windham accepted The Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM) in Washington, D.C. on behalf of the SOARS program.

Dr. Windham was born in Harlem and is a graduate of New York City's High School of Music and Art. He received his Ph.D. in social-personality psychology at the University of Colorado (CU) at Boulder, under Professors Stuart Cook and John Forward. Additional professional training includes postdoctoral study in Clinical and Descriptive Psychology at the Linguistic Research Institute, Boulder, under Dr. Peter Ossorio. Dr. Windham earned the Specialist in Education graduate degree from CU at Denver, and M.S. and B.A. degrees in psychology from New Mexico Highlands University, Las Vegas. Dr. Windham's career track includes positions as a licensed clinical and community psychologist, educator, and CEO of a comprehensive community mental health center.

Dr. Windham has served as a lecturer for the American Psychology Association's Distinguished Visitor Program; President of the Boulder Valley School District Board of Education; and Invited Science Education Columnist for The Boulder Daily Camera. Dr. Windham's recent community service includes memberships on the American Meteorological Society Board on Women and Minorities; the CU Alliance for Graduate Education and the Professoriate (AGEP) Advisory Committee; the CU Graduate School Advisory Committee; the I Have a Dream Foundation of Boulder County, CO; the NSF Advisory Committee for Geosciences; the NSF Alan T. Waterman Selection Committee; and the NSF Committee on Equal Opportunities in Science and Engineering.

In 1997, Dr. Windham was awarded Boulder County's Ninth Annual Multicultural Award for Science. In January 2003, Dr. Windham received The Boulder Daily Camera Pacesetter Award for Science, Medicine and Health. In February 2006, the American Meteorological Society recognized Dr. Windham "for his vision and determination to promote diversity, especially among students in the field of atmospheric and related sciences through mentoring, research, and outreach" by awarding him its Charles E. Anderson Award.

IN LOVING MEMORY



Col. Christopher L. McRae, USMC (R)

HRD-EHR National Science Foundation
HRD Assistant Program Director; JAM Director 2005

Chris McRae died tragically in an automobile accident last July. Many of you made his acquaintance during the HRD JAM which was held April 24-26, 2005. COL McRae led the planning for that constructive and productive meeting. Some of you may have known COL McRae during the more than 20 years he devoted to NSF, to its efforts to diversify the STEM workforce, and to cause the myriad administrative support programs to function well. Before coming to NSF, COL McRae served our country in the U.S Marines. He was a proud Marine because he honored and affirmed service to others as a seamless and purposeful life value.

He joined the U.S. Marine Corps in June 1978, served as an active duty officer for 5 years, and then became a USMC reservist for the remainder of his career. His last Reserve assignment was as the senior Marine Corps representative and executive director for the Operation Tribute to Freedom Program in the Office of the Assistant Secretary of Defense for Public Affairs at the Pentagon.

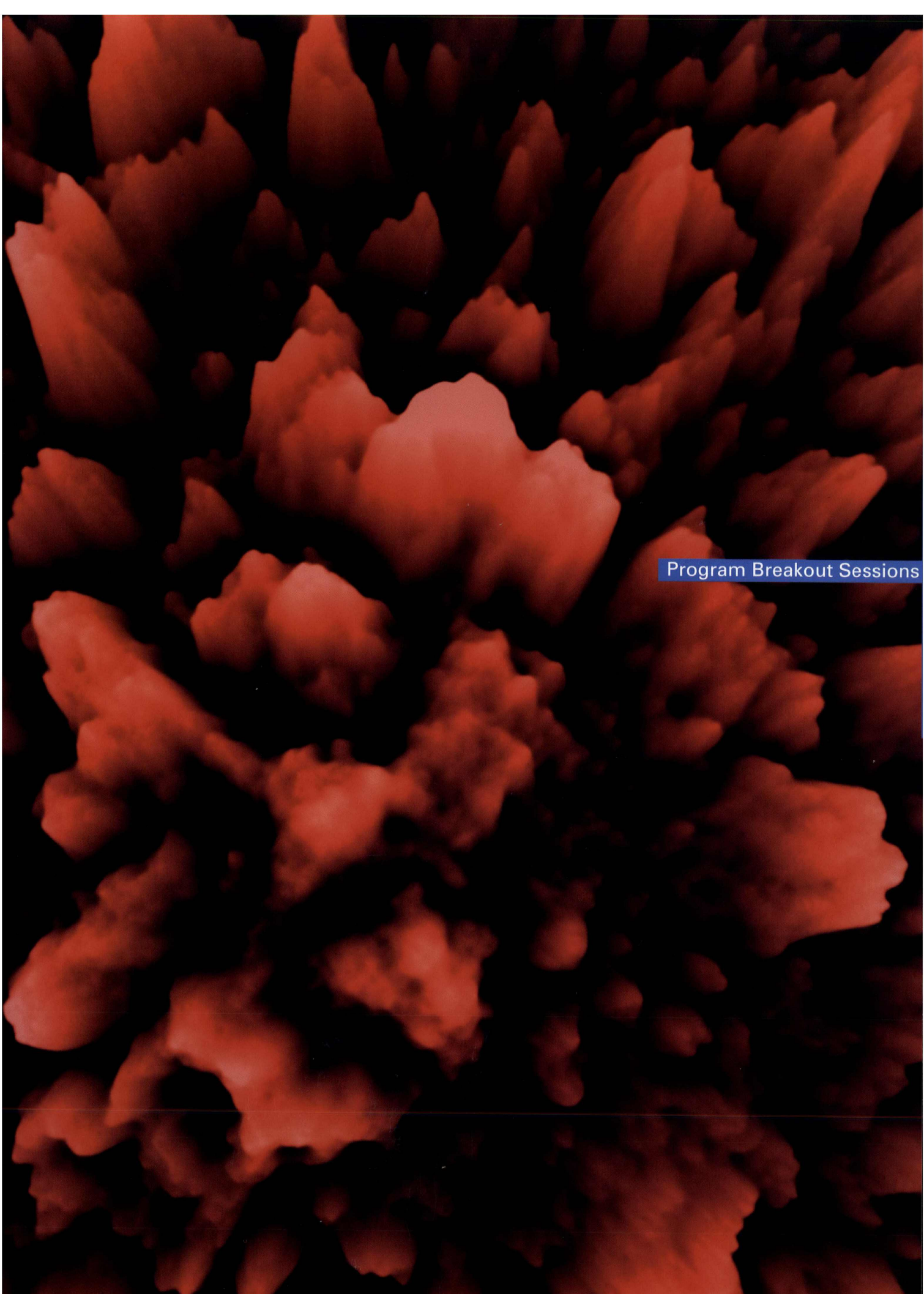
After leaving active duty, he moved to Washington, DC and began his civilian career as an employee at NSF where he worked until his untimely death. Chris McRae was dedicated to his career, and worked dutifully and faithfully at NSF. At the time of his death, the NSF paperwork had just returned indicating his promotion as Assistant Program Director.

Chris was dedicated to community service. Shortly after moving to Washington, DC, he began working as a volunteer, teaching music to children at Maury Elementary School in Alexandria, VA. He later moved to Forestville, MD, where he served the community in many capacities, including as PTA President; as a member of the County Council of PTAs; as a member of the Coalition 100; as President of the Forestville Civic Association; and as a community activist.

Chris was someone that folks liked and respected—an easy, earnest, "can-do" father and husband, who was also a "did-do," and "let's-do" professional—one to whom a dark cloud seemed to exist only to give purpose and definition to glittering and omnipresent silver linings. He had an institutional memory of programs, and he shared what he knew might help. He liked outcomes—positive purposeful outcomes. He was always ready to conceive and plan them. His death was a sudden and tragic loss to all who were lucky enough to know him.

When the history of HRD is written, "Chris McRae" and "successful opportunities for thousands of youngsters of color" will surely appear in the same sentences. Yes, it was a dark, solemn and confusing day when we learned of his death, but we sense with confidence that there is a bright, glistening silver lining sitting just so at a promising horizon where COL McRae now sits. We were honored to know him, to share an important slice of our lifetimes with him and to share his vision for us and our Country.

As his HRD family, we and all of NSF remember and honor him, especially now at the JAM.



Program Breakout Sessions



Program Breakout Sessions

PROGRAM BREAKOUT SESSIONS AGENDAS

Alliances for Graduate Education and the Professoriate (AGEP)

Program Director: *Dr. Roosevelt Johnson, ryjohnso@nsf.gov, 703-292-4669*

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 11:00 am	Welcome and Program Update... Program Director	Farragut Square
11:00 - 11:15 am	Meeting Agenda... Program Director	
11:15 - 11:30 am	Evaluation Workshop Report... AAAS	
11:30 - 12:00 pm	Update... Cybernetwork	
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 2:30 pm	Project Updates - Retention	Farragut Square
2:30 - 3:15 pm	Next Steps - Postdoctoral Initiatives	
3:15 - 3:45 pm	Next Steps - Faculty Diversification Initiatives	
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 2:00 pm	Next Steps - Research Directorates	Farragut Square
2:00 - 3:30 pm	PI-Identified Topics	
3:30 - 4:30 pm	Wrap-up	

PROGRAM BREAKOUT SESSIONS AGENDAS

Centers of Research Excellence in Science and Technology (CREST)

Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE)

Program Directors: *Dr. Victor Santiago, vsantiag@nsf.gov, 703-292-4673*

Dr. James Powlik, jpowlik@nsf.gov, 703-292-4681

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:00 am	Follow the General Program Schedule	
10:30 - 11:15 am	Program Business Meeting	Cabin John Bridge Room
11:15 - 12:00 pm	Reverse Site Visit Briefing	
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 2:45 pm	FY 2006 Program Solicitation NSF Funding Opportunities for Small Business/University Partnership <i>Juan Figueroa</i> <i>National Science Foundation</i>	Cabin John Bridge Room
2:45 - 3:45 pm	Performance Metrics Management <i>Wendi Poole</i> <i>ORC Macro</i>	
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom

PROGRAM BREAKOUT SESSIONS AGENDAS

FRIDAY, MARCH 17 *continued*

TIME	TOPIC	ROOM
1:30 - 2:15 pm	Grants and Agreements Briefing <i>Pam Hawkins</i> <i>Al Wilson</i> <i>National Science Foundation</i>	Cabin John Bridge Room
2:15 - 3:00 pm	Invited HBCU-RISE Project Briefings	
3:15 - 4:15 pm	Invited CREST Project Briefings	
4:15 - 4:30 pm	Remaining Business & Adjournment	

PROGRAM BREAKOUT SESSIONS AGENDAS

Historically Black Colleges and Universities Undergraduate Program (HBCU-UP)

Program Directors: *Dr. Jessie DeAro, jdearo@nsf.gov, 703-292-5350*

Dr. Camille McKayle, cmckayle@nsf.gov, 703-292-4671

WEDNESDAY, MARCH 15 (Pre-Conference Workshop)

TIME	TOPIC	ROOM
12:00 - 5:00 pm	HBCU-UP Financial Management Workshop	Independence B-E
12:00 - 7:00 pm	REGISTRATION	Constitution Registration Desk

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 11:00 am	HBCU-UP Welcome & Business Meeting	Constitution C-D
11:00 - 12:00	HBCU-UP Program Evaluation <i>Beatrice Clewell</i> <i>The Urban Institute</i>	
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:45 pm	HBCU-UP Project Evaluation - Introduction	Constitution C-D
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

PROGRAM BREAKOUT SESSIONS AGENDAS

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 3:00 pm	HBCU-UP Project Evaluation - Outcomes that are hard to measure	Constitution C-D
3:00 - 4:30 pm	SEIS Workshop <i>Linda Crasco and Jason Kim</i> <i>Systemic Research Inc.</i>	

PROGRAM BREAKOUT SESSIONS AGENDAS

Louis Stokes Alliances for Minority Participation (LSAMP)

Program Directors: *Dr. A. James Hicks, ahicks@nsf.gov, 703-292-4668*

Ms. Martha James, mjames@nsf.gov, 703-292-7772

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:00 am	Follow the General Program Schedule	
10:30 - 12:00 pm	LSAMP Business Meeting / <i>A. James Hicks, Presiding</i> <i>Introductions</i> <i>Program Updates</i>	Constitution A
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:00 pm	University of South Florida: An Institutionalization Model <i>Peter Betzer</i> <i>Dean</i> <i>School of Marine Sciences</i>	Constitution A
3:00 - 3:50 pm	REU Program <i>Randy Duran</i> <i>University of Florida</i>	
	LSAMP Publications <i>Louis Dale</i> <i>University of Alabama-Birmingham</i>	
4:00 - 5:00 pm	LSAMP Lecture <i>S. Allen Counter</i> <i>Director of the Harvard Foundation</i> <i>Harvard University</i>	
5:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

PROGRAM BREAKOUT SESSIONS AGENDAS

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 2:30 pm	LSAMP Program Business (continues) <i>Congressman Louis Stokes</i>	Constitution A
2:45 - 4:30 pm	Education Partnerships: Defining, Modeling & Measuring <i>Gordon Kingsley</i> <i>Georgia Institute of Technology</i>	
	TRIO Program Update <i>Arnold L. Mitchem</i> <i>Council for Opportunity in Education</i>	

PROGRAM BREAKOUT SESSIONS AGENDAS

LSAMP - Bridge to the Doctorate Students

Program Director: *Dr. A. James Hicks, ahicks@nsf.gov, 703-292-4668*

Ms. Martha James, mjames@nsf.gov, 703-292-7772

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 12:00 pm	<p>OPENING AND INTRODUCTION <i>Sherrie B. Green, Presiding</i> <i>Program Director</i> <i>Office of Integrated Activities</i> <i>National Science Foundation</i></p> <p>WELCOME AND REMARKS <i>Thomas Windham</i> <i>Sr. Advisor for Science & Engineering</i> <i>Workforce</i> <i>National Science Foundation</i></p> <p>OVERVIEW OF NATIONAL SCIENCE FOUNDATION <i>Tia Spenser</i> <i>Directorate of Education and Human Resources</i> <i>National Science Foundation</i></p>	Constitution B
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:45 pm	<p>NSF Funding Opportunities in the Division of Graduate Education (DGE) <i>Debasish Dutta</i> <i>Acting Division Director</i> <i>Earnestine Psalmonds</i> <i>Program Director</i> <i>Carol Van Hartesveldt</i> <i>Program Director</i> <i>Sonia Ortega</i> <i>Program Director</i></p>	Constitution B
4:00 - 5:00 pm	<p>KEYNOTE ADDRESS <i>Allen Counter</i> <i>Harvard University</i></p>	
5:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

PROGRAM BREAKOUT SESSIONS AGENDAS

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:30 - 9:45 pm	<p>NSF Centers Funding Opportunities: <i>Alliances for Graduate Education & the Professoriate (AGEP) Program</i> Roosevelt Johnson</p> <p><i>Centers of Research Excellence in Science & Technology (CREST) Program</i> Victor Santiago</p> <p><i>Engineering Research Centers (ERCs) Program</i> Robert Norwood</p> <p><i>Science and Technology Centers (STCs) Program</i> Margaret Tolbert</p>	Constitution B
10:00 - 11:45 am	<p>PANEL "The Graduate School Experience: Lessons Learned"</p> <p><i>Asha Collins, Postdoctoral</i> <i>University Wisconsin-Madison</i></p> <p><i>Alberto Guzman, Ph.D. student,</i> <i>University Illinois-Chicago</i></p> <p><i>Rita. E. Rodriguez, Ph.D. student</i> <i>Purdue University</i></p> <p><i>Ronald E. Hunter, Jr., Ph.D. student</i> <i>Emory University</i></p> <p><i>Takita F. Sumpter, Assistant Professor</i> <i>Winthrop University</i></p>	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 2:30 pm	<p>KEYNOTE SPEAKER <i>Congressman Louis Stokes</i></p>	Constitution B

PROGRAM BREAKOUT SESSIONS AGENDAS

Model Institutions for Excellence (MIE)

Program Directors: *Mr. David Temple, dtemple@nsf.gov, 703-292-4674*

Dr. Carl Person, carl.s.person@nasa.gov, 202-358-2378

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 11:00 am	Dissemination/Replication Activities: IHEP Strategies <i>Jamie Merisotis</i> <i>Arnold Kee</i>	Wilson Bridge Room
11:00 - 11:15 am	2006 Workshop Summary: University of Texas at El Paso	
11:15 - 11:30 am	2006 Workshop Summary: Universidad Metropolitana (PR)	
11:30 - 12:00 pm	Dissemination/Replication Planning	
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 2:10 pm	MIE Graduates' Study-American Institutes for Research (AIR)	Wilson Bridge Room
2:10 - 2:30 pm	"Expanding the Pool" Update and Discussion-AIR	
2:30 - 2:45 pm	Math and Science Partnerships Discussion <i>Diane Spesser</i>	
2:45 - 3:15 pm	Science Education Resource Virtual Diversity Center <i>Bill McHenry</i>	
3:15 - 3:45 pm	MSET-Systemic Research Inc. <i>Jason Kim</i> <i>Linda Crasco</i>	
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

PROGRAM BREAKOUT SESSIONS AGENDAS

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
	MIE 2.0 Breakout Session Strategic Planning Consultants	Wilson Bridge Room
1:30 - 2:00 pm	Preliminary discussion about the MIE 2.0 concept - What are the views of PIs regarding a next phase of the MIE experience? <i>Jamie Merisotis</i>	
2:00 - 2:30 pm	Strategies that worked-from the PI perspective / How did PIs make them work. <i>Carlos Rodriguez</i>	
2:30 - 3:00 pm	How does the MIE experience grow - among MSIs? How do they maintain what they have achieved? <i>William McHenry</i>	
3:00 - 3:30 pm	What are the structural options for an MIE 2.0? <i>Jason Kim</i> <i>Group Discussion</i>	
3:30 - 4:30 pm	Wrap-up	

PROGRAM BREAKOUT SESSIONS AGENDAS

Presidential Awards for Excellence in Science, Mathematics, and Engineering
Mentoring (PAESMEM)

Program Director: *Mr. David Temple, dtemple@nsf.gov, 703-292-4674*

Program Manager: *Ms. Martha James, mjames@nsf.gov, 703-292-7772*

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 10:40 am	WELCOME <i>David L. Temple, Jr.</i> <i>Program Director</i>	Roosevelt Bridge Room
	White Paper Presentation <i>Joseph Gardella</i> <i>2005 Individual PAESMEM recipient</i>	
10:40 - 11:00 am	Recognizing Mentoring as a Necessary Means to Human Resource Development in STEM Fields	
	Briefings <i>Celestine Pea</i> <i>Program Director, NSF Presidential Awards for Excellence in Mathematics and Science Teaching (PAESMT)</i>	
	<i>Carol Muller</i> <i>CEO and Founder</i> <i>MentorNet</i>	
11:00 - 11:30 am	Practices and Barriers to Institutionalization of Mentorship in Academic Institutions, Industry, K-12 <i>Tanya Furman</i> <i>Joseph Gardella</i> <i>2005 PAESMEM recipients</i>	
11:30 - 12:00 pm	Key Mechanisms to Extend Mentoring Beyond Teachers, Education Students, Research Students etc. <i>Sheryl Tucker</i> <i>2005 PAESMEM recipient</i>	

PROGRAM BREAKOUT SESSIONS AGENDAS

THURSDAY, MARCH 16 *continued*

TIME	TOPIC	ROOM
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 2:30 pm	White Paper Wrap Up and Assignments <i>Joseph Gardella</i> <i>2005 Individual PAESMEM recipient</i>	Roosevelt Bridge Room
2:30 - 3:45 pm	White Paper Working Session(s)	
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 2:00 pm	White Paper Status Report <i>Cheryl Schrader</i> <i>Joseph Gardella</i> <i>2005 Recipients</i>	Roosevelt Bridge Room
2:00 - 4:30 pm	White Paper Working Session(s) and Draft	

PROGRAM BREAKOUT SESSIONS AGENDAS

Research in Disabilities Education (RDE)

Program Director: *Dr. Ted Conway, tconway@nsf.gov, 703-292-4655*

Program Manager: *Ms. Martha James, mjames@nsf.gov, (703) 292-7772*

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:00 am	Follow the General Program Schedule	
10:30 - 12:00 pm	RDE General Business Meeting <i>Introductions</i> <i>Program Review</i> <i>Program Current Status</i> <i>Future Directions/Priorities</i>	Independence E
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:45 pm	Focus Research Initiative - Demonstration Enrichment - Information Dissemination (Presentations by Project Leaders)	Independence E
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:45 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 3:15 pm	Panel: Regional Alliances for Persons with Disabilities (Lessons Learned)	Independence E
3:15 - 4:30 pm	Strategic Forum for Equal Participation	

PROGRAM BREAKOUT SESSIONS AGENDAS

Research on Gender In Science and Engineering (GSE)

Program Director: *Dr. Jolene Kay Jesse, jjesse@nsf.gov, 703-292-7303*

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 am	Follow the General Program Schedule	
10:30 - 10:45 am	Welcome and Program Update	Lafayette Park
10:45 - 12:00 pm	Panel on Foundations and Community Building	
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:45 pm	Panel on Extension Services and Dissemination	Lafayette Park
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Follow the General Program Schedule	
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:15 - 3:15 pm	GSE Project Presentations	Lafayette Park
3:00 - 4:00 pm	Discussion, GSE Funding Tracks, and other Related NSF Programs	

PROGRAM BREAKOUT SESSIONS AGENDAS

Tribal Colleges and Universities Program (TCUP)

Program Directors: *Dr. Gerald Monette, gmonette@nsf.gov, 703-292-5178*

Dr. Jody Chase, jchase@nsf.gov, 703-292-8682

WEDNESDAY, MARCH 15 (Pre-Conference Workshop)

TIME	TOPIC	ROOM
1:00 - 5:00 pm	Project Financial Management Workshop	Independence F-I
12:00 - 7:00 pm	REGISTRATION	Constitution Registration Desk

THURSDAY, MARCH 16

TIME	TOPIC	ROOM
8:00 - 10:30 pm	Follow the General Program Schedule	
10:30 - 12:00 pm	Program Issues Discussion with Project Leaders	Constitution E
12:15 - 1:30 pm	LUNCH	Independence Ballroom
2:00 - 3:45 pm	Discussion of Current Activities: <i>Shirley McBay</i> <i>QEM (Leadership Development Project);</i> <i>Jason Kim and Linda Crasco</i> <i>SRI (TSET);</i> <i>Teresa Gomez, AISES</i> <i>Judit Camacho, SACNAS</i>	Constitution E
4:00 - 7:00 pm	POSTER SESSION and RECEPTION	Independence Ballroom

FRIDAY, MARCH 17

TIME	TOPIC	ROOM
8:00 - 11:30 am	Individual Project Meetings with Program Directors	Constitution E
11:45 - 1:00 pm	LUNCH	Independence Ballroom
1:30 - 4:30 pm	Program Issues Discussion with Project Leaders	Constitution E



A high-contrast, black and white photograph of a man in a white lab coat looking through a microscope. The man is positioned on the left side of the frame, with his head tilted back and eyes focused on the eyepiece. The microscope is mounted on a desk, and its various components, including the eyepiece, objective lenses, and stage, are visible. The background is dark and out of focus, suggesting a laboratory environment. The overall image has a grainy, high-contrast aesthetic.

Professional Development Workshops

PROGRAM DESCRIPTIONS PROFESSIONAL DEVELOPMENT WORKSHOPS

LEGISLATIVE AND CONGRESSIONAL AFFAIRS:

Purpose: To bring practical knowledge and a handy reference to participants' understanding of federal science and technology policy, related federal budget and appropriations issues, and congressional members, procedures and practices, and the President's American Competitiveness Initiative.

NSF FUNDING OPPORTUNITIES:

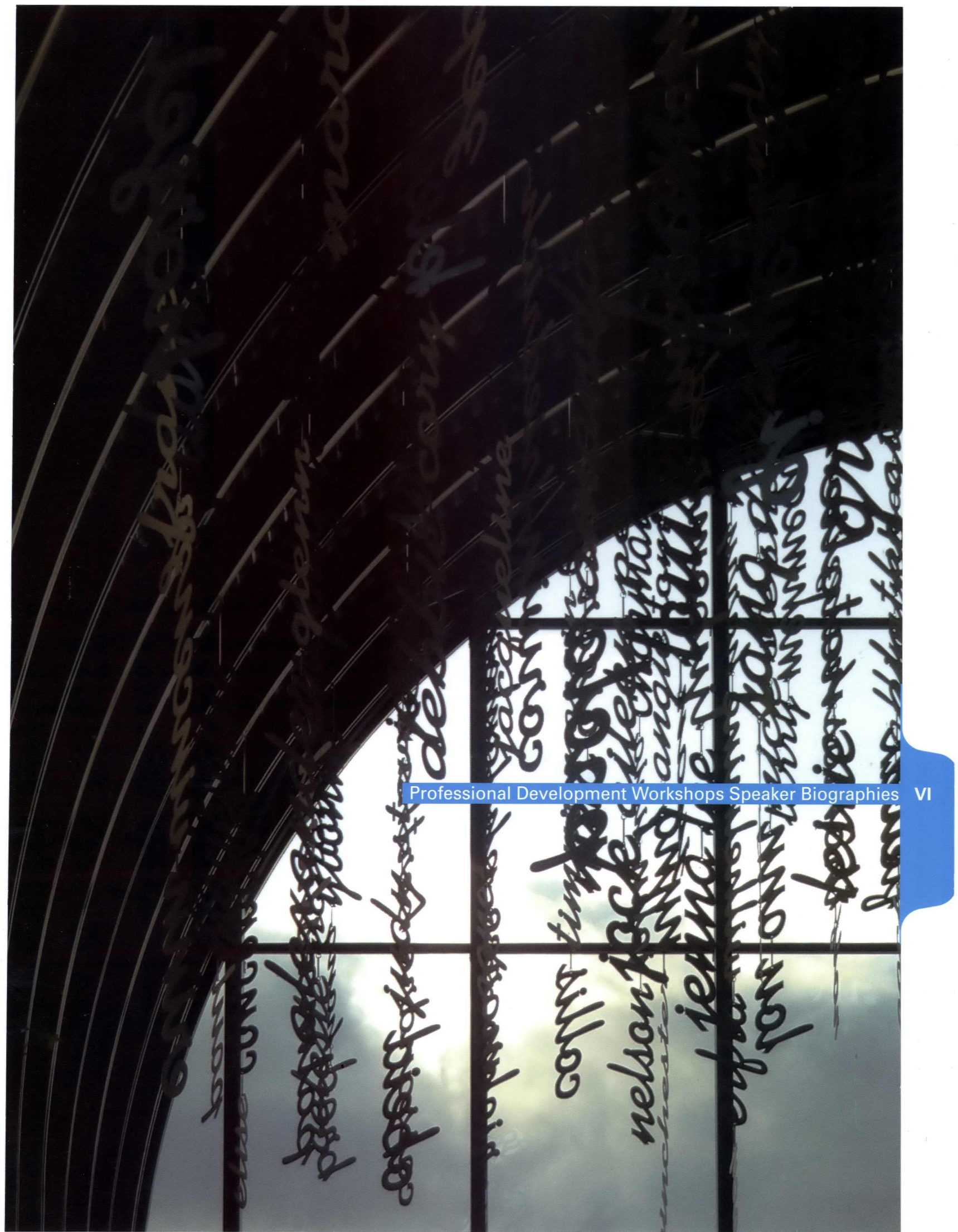
Purpose: To present a sample of NSF research and related funding and broadening participation opportunities available in selected disciplines or geographic areas. Strategies for competing for these NSF programs will be discussed.

POST AWARD MANAGEMENT/MONITORING/RISK MANAGEMENT/HUMAN SUBJECTS:

Purpose: To inform principal investigators and project directors of current grant management practices and audit policies and procedures. Projects involving human subjects' research and compliance with the Common Rule.

PROJECT EVALUATION:

Purpose: To provide evaluators the opportunity to learn new directions in evaluation and to engage in an interactive dialogue regarding the challenges in evaluating broadening participation efforts.





VI Professional Development Workshops Speaker Biographies

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

LEGISLATIVE AND CONGRESSIONAL AFFAIRS WORKSHOP



Dr. David M. Stonner

Congressional Affairs, Head
Office of Legislative & Public Affairs
National Science Foundation

David Stonner is head of the Congressional Affairs Section in the Office of Legislative and Public Affairs at the NSF, where he has worked since 1991. In addition to his role as the principal NSF liaison to Congress, he has served in a number of capacities within the Foundation, including as a charter member of board of directors for the NSF Child Development Center; as a member of the Partnerships for Innovation task force; and as a speechwriter for several NSF Directors.

Prior to coming to NSF he served for 8 years on the staff of Congresswoman Claudine Schneider, where he was legislative director. That position grew out of his selection as an American Association for the Advancement of Science Congressional Science Fellow in 1982.

From 1979 to 1982 Dr. Stonner was a program officer in the Psychological Sciences Division at the Office of Naval Research and he was an assistant professor of psychology at Oakland University from 1974 to 1978. He is the author or co-author of two-dozen scholarly publications and two book chapters, and has given numerous presentations at national and international professional meetings. He earned his Ph.D. in Psychology from the University of Missouri.

NSF FUNDING OPPORTUNITIES WORKSHOP



Dr. Diana L. Burley (Moderator)

Program Director
Division of Undergraduate Education
National Science Foundation

Diana L. Burley is a Program Director in the Division of Undergraduate Education (DUE) at the NSF. Dr. Burley's programmatic responsibilities include leading the Federal Cyber Service: Scholarship for Service (SFS) Program, and evaluating computer science education proposals submitted across the Division's programs. Dr. Burley is currently on assignment at NSF from her faculty position in the School of Information Studies at Syracuse University where she is an Assistant Professor of Information Management. Prior to joining Syracuse University, Dr. Burley was a member of the Kelley School of Business faculty at Indiana University.

Dr. Burley received her B.A. in Economics from The Catholic University of America, and she holds three degrees from Carnegie Mellon University: an M.S. in Public Policy and Management (MIS concentration), an M.S. in Organization Science, and a Ph.D. in Organization Science and Information Technology.

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

An active researcher, Dr. Burley has nearly two-dozen publications and more than 40 scholarly presentations. She has consulted with several institutions on the use of information and communication technologies in government, disaster response, and knowledge management. She is the recipient of numerous awards including a Woodrow Wilson Foundation Fellowship and multiple NSF awards, and has been recognized for teaching excellence at both Carnegie Mellon and Indiana Universities. Active in the community, Dr. Burley has served as a Pennsylvania Humanities Council Scholar on IT and the Community, and she volunteers at her local elementary school.



Dr. Stephanie G. Adams

Program Director
Division of Undergraduate Education
National Science Foundation

Stephanie G. Adams is the Assistant Dean for Research in the College of Engineering and Technology and an Associate Professor of Industrial and Management Systems Engineering at the University of Nebraska-Lincoln (UNL). She is currently working at the NSF in Arlington, VA, as a Fellow of the American Association for the Advancement of Science AAAS.

Dr. Adams is an honor graduate of North Carolina Agricultural and Technical State University, where she earned her B.S. in Mechanical Engineering in 1988. In 1991 she was awarded the Master of Engineering degree in Systems Engineering from the University of Virginia. She received her Ph.D. in Interdisciplinary Engineering from Texas A&M University in August of 1998. She has published a number of articles on the effective use of teams, as well as articles on issues related to mentoring students. In 2003 she received the prestigious CAREER award from the NSF to support her goal of designing, developing, and validating a model for the facilitation of effective teaming in the engineering classroom and for the enhancement of learning.

Previously, Dr. Adams served as the Director of the Advocates for Minority Engineering Student Success Program at North Carolina State University, and as the Minority Engineering Program Director at Texas Tech University. Dr. Adams is the recipient of numerous awards; in 2004 she was awarded the Holling Teaching/Advising/Mentoring Award by the College of Engineering at UNL; the Janice A. Lumpkin Educator of the Year, by the National Society of Black Engineers, and the Chancellor's Fulfilling the Dream recipient. In 2003, she was awarded the Sue Tidball Award for Creative Humanity. In 2002 she received the Service Award for Assistant Professors in the College of Engineering. In 2001 she was selected as an Honorary member of Mortar Board, and was awarded the Henry Y. Kleinkauf Outstanding Assistant Professor in Teaching Award.

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

**Dr. Sonia Esperança**

Program Director
Division of Earth Sciences
National Science Foundation

Sonia Esperança is the Program Director for Petrology and Geochemistry in the Division of Earth Sciences (GEO). She first came to NSF in 1996 and served in a temporary capacity of her current position. During that period, she was also appointed the GEO representative for the Working Group on Diversity. In 1999, she returned to NSF as a permanent Program Director in GEO/EAR. She is the GEO representative for a number of Cross-Directorate activities including ADVANCE, CAREER, and the STC programs. She is presently working on a part-time detail in the SBE Directorate, handling some of the programmatic duties associated with the ADVANCE initiative. Her research interests are in the area of isotope geochemistry applied to volcanic rocks and mantle materials.

Sonia Esperança was born in Rio de Janeiro, Brazil. She moved to the US in 1973 to go to college, and received a B.A. in Geology from Rice University in 1976. She continued her studies in Israel, where she received a M.S. in Earth Sciences from the Hebrew University of Jerusalem in 1980. She completed a Ph.D. in Geology from Arizona State University in 1984, and since then she has held various appointments at Northwestern University, Old Dominion University, Monash and Deakin Universities in Australia, and the University of Maryland-College Park.

**Dr. Kaye Husbands Fealing**

Program Director
Division of Social and Economic Sciences
National Science Foundation

Kaye Husbands Fealing is a Program Director in the Division of Social and Economic Sciences at the NSF, and she is the William Brough Professor of Economics at Williams College, Williamstown, MA. At Williams College, Dr. Husbands Fealing teaches courses in global competitive strategies, microeconomics, and industrial organization, and has taught senior seminars on a variety of topics including the Pacific Rim, globalization, income security, privatization, and regulation. She has also been a visiting scholar at MIT's Center for Technology Policy and Industrial Development (CTPID) from July 1992 through August 1996, where she conducted research on NAFTA's effect on the Mexican and Canadian automotive industries, and on strategic alliances between aircraft contractors and their subcontractors.

Dr. Husbands Fealing continues to conduct research on the automotive industry and on the effect of multinationals on global technological diversity. She received her B.A. from the University of Pennsylvania in mathematics and economics in 1981; and her Ph.D. from Harvard University in 1990.

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

Dr. Jermelina Tupas

Program Director
Division of Molecular and Cellular Biosciences
National Science Foundation

Jermelina Tupas recently joined the National Science Foundation in January 2004, and currently serves as a Program Director in the Division of Molecular and Cellular Biosciences in the Biological Sciences Directorate. She manages several research projects within the Cellular Systems Cluster, and helps in the efforts of the Directorate in broadening the participation of underrepresented groups in the sciences. She also represents the Foundation in an interagency working group for monitoring molecular vaccine developments.

Prior to joining NSF, Dr. Tupas was the Program Director for the Minority Access to Research Careers Undergraduate Students Training in Academic and Research (MARC U*STAR) Program, and Associate Program Director for the Haumana Minority Biomedical Research Support (MBRS) at the University of Hawaii. As the Program Director for these training programs, she was responsible for making sure that underrepresented undergraduate students were given the academic exposure and research training to make them competitive to enter graduate studies. Since she carried out her own research projects while serving as director for these training programs, she also trained several students many of who have now gone on to pursue graduate studies.

Dr. Tupas received a B.S. in Zoology and M.S. in Microbiology from the University of Philippines. She received her Ph.D. in Molecular Biology from the Institute of Medical Sciences at the University of Tokyo. She has received numerous awards, certificates, scholarships, and fellowships within the fields of Molecular Biology, Molecular Endocrinology, and Zoology.

POST AWARD MANAGEMENT/MONITORING/RISK MANAGEMENT/ HUMAN SUBJECTS WORKSHOP



Pamela A. Hawkins (Moderator)

Grant and Agreement Specialist
Division of Grant and Agreements
National Science Foundation

Pamela A. Hawkins serves as Grant and Agreement Specialist in the NSF's Division of Grants and Agreements. She has more than 25 years of NSF experience encompassing the review, negotiation, and oversight administration of award instruments that help facilitate and support a variety of disciplines within NSF; i.e., Directorate for Geosciences; Directorate for Social, Behavioral & Economic Sciences; and the Directorate for Education & Human Resources. Her concentrated efforts include the Tribal Colleges and Historically Black Colleges and

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

Universities of the EHR Directorate. Ms. Hawkins leadership efforts in these areas ensure that the programmatic objectives of these Directorates are achieved, and that all business and administrative requirements are met.

In addition to her duties as a Grant and Agreement Specialist, Ms. Hawkins serves as a current Board member of the NSF Federal Credit, and is past President of the NSF Child Development Center's Parent Advisory Committee, where she also served as Chair from 1997 to 2000.

Ms. Hawkins has studied Business Finance and Accounting at the University of Maryland.



Dr. Kellina M. Craig-Henderson

Program Officer
Division of Behavioral and Cognitive Sciences
National Science Foundation

Kellina M. Craig-Henderson is a social psychologist who is currently serving as a visiting scientist at the National Science Foundation in the Social Psychology program. She graduated from Wesleyan University before attending the Master's program in the social sciences at the University of Chicago where she earned a M.A. Following that she earned an M.S. and a Ph.D. in Psychology from Tulane University.

From 1993-1997, Dr. Craig-Henderson served on the faculty in the Department of Psychology as well as the Afro-American Studies Research program at the University of Illinois, Champaign-Urbana. This was followed by an appointment in the Psychology Department of California State University, Long Beach. In 1999, Dr. Craig-Henderson moved to Howard University in Washington, DC and was awarded tenure in 2001.

Dr. Craig-Henderson's research includes studies of groups, cross-cultural gender and race stereotyping, and aggression. She has published more than 30 reports of empirical research, and is on-leave from her position as an associate professor of psychology in the Department of Psychology at Howard University.

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS



Dr. Celeste H. Pea

Program Director
Division of Educational System Reform
National Science Foundation

Celeste H. Pea is a Program Director at the NSF's Division of Educational System Reform. She serves as a Program Director for the Urban Systemic Program (USP), which is aimed at improving science and mathematics education in urban school districts nationwide. She also directs the Presidential Awards for Excellent in Mathematics and Science Teaching, serves on the GK-12 Committee, and oversees the Einstein Fellow Program at NSF.

Before coming to NSF, Dr. Pea was the Science Coordinator for the Louisiana Systemic Initiatives Program (LaSIP) in Baton Rouge, LA, where her responsibilities included monitoring of and providing technical assistance for 12-15 university-lead teacher professional development science programs annually. She taught school for more than 20 years in East Baton Rouge Parish, where she also served as a model and mentor teacher, and helped to develop and write the science curriculum at the parish and school levels. Further, she participated in the piloting of teacher evaluation instruments and research activities, and served as the lead teacher on a distance-learning project with Louisiana State University. Dr. Pea competed for and was awarded the Presidential Award for Excellence in Science and Mathematics Teaching.

Dr. Pea has been extensively involved with educational reform on the national level. She has served as a presenter, a consultant, and on advisory boards, committees, and task forces with organizations such as the Council of Chief States School Officers; the National Research Council; the Quality Education for Minorities Network; the National Association of Biology Teachers; the American Physical Society; the National Science Teachers Association; and the New Standards Projects. She has also served as a co-writer for several publications that have been disseminated both nationally and internationally. Dr. Pea holds professional degrees in Biology from Southern University in Baton Rouge, LA, and a Ph.D. in Science Education Leadership from George Mason University in Fairfax, VA.

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

PROJECT EVALUATION WORKSHOP



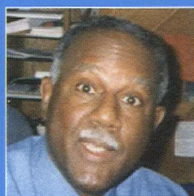
Dr. Bernice Taylor Anderson (Moderator)

Senior Advisor for Evaluation
Directorate for Education and Human Resources
National Science Foundation

Bernice Taylor Anderson is the Senior Advisor for Evaluation in the NSF's Directorate for Education and Human Resources (EHR). Before taking on this position in June 2005, she was Acting Division Director for Human Resources Development (2004-05), and Acting Division Director for Educational System Reform (2002-03). From 1997 to 2002, Dr. Anderson served as a Program Director in EHR's Division of Research, Evaluation, and Communication.

She is the co-author of *Breaking the Barriers: Helping Women and Minorities Students Succeed in Mathematics and Science*, and has recently published a book chapter, "Evaluating Systemic Reform: Evaluation Needs, Practices, and Challenges" in *Evaluation of Science and Technology Education at the Dawn of a New Millennium*.

Dr. Anderson is a graduate of the School of Education at Rutgers University, New Brunswick, NJ. Her previous work experiences include Research Scientist in the Special Populations Group in the Education Policy Research Division at Educational Testing Service in Princeton, NJ, and as a faculty member in the School of Education at Norfolk State University, Norfolk, VA.



Dr. Walter V. Collier

President / Chief Executive Officer
C&A Technologies, Inc.

Walter V. Collier holds a D.P.A. in Public Policy Research from New York University's School of Public Administration; a M.P.A. in Health Care Planning and Evaluation, also from New York University; and a M.A. in Social Psychology from Brooklyn College. He received a B.A. degree in Psychology from Brooklyn College.

Dr. Collier has more than 35 years of experience as a social science researcher. He was formerly Senior Vice President of the survey research firm, EVAXX, Inc.; Director of Planning and Research for New York State's Division of Parole; and a Senior Research Associate in psychiatry at the College of Physicians and Surgeons at Columbia University.

As a consultant, Dr. Collier has provided program evaluation research and training, survey research, policy analysis, and strategic planning services to many organizations, including the

PROFESSIONAL DEVELOPMENT WORKSHOPS SPEAKERS

U.S. Department of Health and Human Services, the NSF, the New England Telephone Company, the U.S. Department of Education, the American Chemical Society, the American Cancer Society, the Alvin Alley Dance Theater Company, the Appalachia Educational Laboratory, the Joint Center for Political and Economic Studies, the Interdenominational Theological Center, Howard University, Brooklyn College, Spelman College, Ford Foundation, the Piton Foundation and the New York City Department of Juvenile Justice. He has published numerous research articles and papers related to program evaluation and survey research. Since 1984, Dr. Collier has been the President/CEO of C&A Technologies, Inc., a consulting management research firm. He is also a member of the American Evaluation Association.



Dr. Patricia Campbell

President
Campbell-Kibler Associates, Inc.

Patricia B. Campbell, Ph.D., President of Campbell-Kibler Associates, Inc., has been involved in educational research and evaluation with a focus on science and mathematics education and issues of race/ethnicity, gender and disability since the mid 1970's. Her B.S., from LeMoyne College is in Mathematics; her M.S., from Syracuse University, is in Instructional Technology; and her Ph.D., also from Syracuse University, is in Teacher Education. Dr. Campbell, formerly a professor of research, measurement and statistics at Georgia State University, has authored more than 90 publications, co-authoring *Engagement, Capacity and Continuity: A Trilogy for Student Success and Upping the Numbers: Using Research-Based Decision Making to Increase Diversity in the Quantitative Sciences* with Eric Jolly and Lesley Perlman. She also is a co-author, with Beatriz Chu Clewell, of *What Do We Know?: Seeking Effective Math and Science Education*.

Dr. Campbell's professional activities have been diverse, ranging from doing training in educational evaluation and research in South Africa and Uganda to serving as an expert witness in the sex discrimination case brought against the Citadel. Dr. Campbell was a member of the U.S. Department of Education's Impact Review Panel, and was part of the team involved in the development of the NSF's publication *Infusing Equity in Systemic Reform: An Implementation Scheme*. She received the Betty Vetter Research Award from WEPAN and the Willystine Goodsell Award from the American Educational Research Association.

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BD THE UNIVERSITY OF TEXAS SYSTEM LOUIS STOKES
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BOULDERGSE (GDSE) PILOTING IMPLEMENTATION OF CHANGE
ARTMENTS BLANTON JOAN JACKSON STATE UNIVERSITY
MP BRIDGE TO THE DOCTORATE PROGRAM BURKE BARBARA
E POLYTECHNIC UNIVERSITY AT POMONA PAESMEM SCIENCE
HANCEMENT SERVICES PROGRAM AT CAL POLY POMONA
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IA UNIVERSITY GSE (GDSE) URBAN GIRLS' BRIDGING SCIENCE
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NSORS AND SENSOR MATERIALS LONGO ANA UNIVERSITY OF
AMP-BD EFFECTIVENESS OF AN INEXPENSIVE METHOD TO
OMYCOSIS ON PRESERVED FROGS. MARRA ROSE UNIVERSITY
OLUMBIA GSE(GDSE) ASSESSING WOMEN IN ENGINEERING
AND APPLICATIONS PETERSON KAREN PUGET SOUND CENTER
EARNING AND TECHNOLOGY GSE (GDSE) NATIONAL GIRLS
PROJECT PINERO ANA UNIVERSITY OF PUERTO RICO LSAMP THE
MP PROGRAM RANGEL DAVID LINCOLN UNIVERSITY LSAMP
S OF SOD 1 IN CHICK SPINAL MOTOR NEURON DEVELOPMENT

Poster Session List and Titles

$$30 - 10.00$$

$$20 - 4.00$$

$$10 - 2.00$$

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Poster Session List and Titles



POSTER SESSION LIST AND TITLE

Group A					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
1	Acosta	Asela	Arizona State University/Hispanic	LSAMP-BD	An Epidemic Model of Research Center HSV-1 with Vaccination
3	Acosta	Guillermo	Brigham Young University/ASU-Hispanic Research Center	AGEP	Simultaneous Reflection and Transmission Measurements of Scandium Oxide Thin Films in the EUV
5	Acosta	Jazmin	Arizona State University/Hispanic Research Center	AGEP	THE 5-HT _{2C} AGO NIST, MK212, Fails to produce place conditioning or to alter cocaine-condition place
7	Aguiar	Daniel	Arizona State University/Hispanic Research Center	LSAMP-BD	Communications Sensing Trade-Off in Wireless Sensor Networks
9	Almora	Jose	Arizona State University/Hispanic Research Center	LSAMP-BD	An Interspecies Competition Model with Multiscale Interpretations
11	Andrews	Jean	Lanar University	Disabilities Group	Exploring Enabling Technologies for Deaf and Hearing Bilingual Students in Science Classroom
13	Ansari	Ali	VA State University		Role of HBCU UP in Coordination of STEM Resources at Virginia State University
15	Archer	Phillip	Virginia Union University	LSAMP	Environmental and Hereditary factors influencing infant mortality in Virginia
17	Arciero	Ariana	University of Texas System	LSAMP	The University of Texas Louis Stokes Alliance for Minority Participation (LSAMP)

POSTER SESSION LIST AND TITLE

Group A					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
19	Bagayoko	Diola	Southern University		LS-LAMP Bridge to Doctorate and Professoriate Program
21	Barker	Lecia	University of Colorado	GSE (GDSE)	Piloting Implementation at Boulder of Change in Academic Departments
23	Barley	Kamal	Arizona State University/Hispanic Research Center	LSAMP-BD	Schwarz's Lacunal Surfaces: A Special Class of Minimal Surfaces
25	Billionniere	Elodie	Arizona State University/Hispanic Research Center	AGEP	Investigating Research Directions for the Semantic Description of Web
27	Blanton	Joan	Jackson State University	LSAMP-BD	LSMAMP Bridge to the Doctorate Program
29	Bufford	Lisa	Tuskegee University	CREST	PhD Program in Materials Science & Engineering
31	Burger	Carol	Virginia Polytechnic Institute and State University	GSE (GDSE)	Using the self- authorship framework to predict women's non-traditional career choices
33	Burke	Barbara	California State Polytechnic University at Pomona	PAESMEM	Science Educational Enhancement Services Program at Cal Poly Pomona University
35	Busby	Glenn	WAMC/National Productions	GSE(GDSE)	Powerful Signals: Transforming The Role of Women and Girls in Science and Engineering
37	Calabrese-Barton	Angela	Teachers College Columbia University	GSE (GDSE)	Urban Girls' Bridging Science Practices
39	Campbell	Rowena	University of Arizona/ASU-Hispanic Research Center	AGEP	Alternaria induces pro-inflammatory responses in Human Bronchial Epithelial cells

POSTER SESSION LIST AND TITLE

Group A					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
41	Cartagena	Daniel	Arizona State University/ Hispanic Research Center		A Control Relevant Approach to Modeling Conductive Heat Transfer in a Integrated Circuit Package
43	Carter	Terrolyn	Howard University/AGEP	AGEP	HUTEP - Howard University and The University of Texas at El Paso AGEP Program
45	Carty	Mark	Arizona State University/Hispanic Research Center	LSAMP-BD	Quantifying uncertainty in protein conformations
47	Castro-Estrada	Reynaldo	Arizona State University/Hispanic Research Center	LSAMP-BD	A Deterministic Approach to the Spread of Rumors
49	Caywood	Jillian	Michigan State University		Gender, Play Style, and Learning
51	Clinton	Mary-Ellen	Haskell Indian Nations University	TCUP	Mathematics: Keystone to Success
53	Cohon	Joanne	University of Virginia		Ingredients for Systemic Change
55	Cowan	Heidi	Wright State University		ORCLASS: Accommodations for Inclusive Classrooms
57	Cuevas	Elvira	University of Puerto Rico	CREST	CREST-CATEC: Ecology in the service of human resource development
59	Dalbotten	Diana	National Center for Earth-Surface Dynamics	STC	Opportunities for Research Participation at the National Center for Earth-surface Dynamics
61	Davis	Elaine	Bowie State University	MIE	Institutionalization of a Retention Model
63	Davis-Butts	Eda	Oregon State University	PAESMEM	The SMILE Program: A Model of School-University Partnerships

POSTER SESSION LIST AND TITLE

Group A					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
65	Deason	Jerrad	Prairie View A&M University		Benchmarking of Monte Carlo Codes and Sensitivity Analysis of Physics models in MCNPX for High Energy
67	Dempsey	Sarah	University of California		University of California AGEF
69	Duffie	Samuel	Spelman College		Spellman College, A Model Institution
71	Esquivel	Erika	The University of Texas at El Paso	MIE	The Model Institutions for Excellence Project at the University of Texas at El Paso
73	Evangelista	Arlene	Arizona State University/Hispanic Research Center	LSAMP-BD	Effects of education, vaccination and treatment on HIV transmission in homosexuals with genetic hete
75	Figueroa	Javier	University of Puerto Rico	LSAMP-BD	The Puerto Rico Bridge-to-the-Doctorate Program
77	Flanagan	Mary	Hunter College		RAPUNSEL
79	Flores	Brenda	Arizona State University/Hispanic Research Center	LSAMP-BD	Proposition 200 and other anti-immigrant legislation: The Impact of Eliminating Publicly Funded Health
81	Flores	Kevin	Arizona State University/Hispanic Research Center	LSAMP-BD	Measuring the invasion fitness of avascular tumor growth
83	Froschl	Merle	Academy for Educational Development		Creating a Community of Practice on Science, Gender and Afterschool
85	Gale	Nicole	Midwest Crossroads AGEF		LSAMP Indiana and Midwest Crossroads AGEF

POSTER SESSION LIST AND TITLE

Group A					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
87	Garcia	Blanca	University of Puerto Rico	AGEP	PR-AGEP - Promoting a more systematic, proactive and concerted institutional effort in students recruitment
89	Garcia	Hugo	Arizona State University/Hispanic Research Center	AGEP	Automated Generation of Automated Visual Inspection Routines for Surface Mounted Assembly Systems
91	Garcia	Miguel	Arizona State University/Hispanic Research Center	LSAMP-BD	Control of Flexible Space Vehicles
93	Garcia-Mont	Daniel	Arizona State University/Hispanic Research Center	LSAMP-BD	Development of PHP/MySQL Asset Management Web Application
95	Girves	Jean	The Ohio Science and Engineering Alliance	LSAMP	The Ohio Science and Engineering Alliance
97	Gotwals	Robert	Shodor Ctr for Computational Science Education	RDE (PPD)	DEAF-STEM: Deaf Educational Access For Science, Technology, Engineering and Mathematics
99	Guevara	Cristi	Arizona State University/Hispanic Research Center	AGEP	The Two Dimensional Dirac Operator
101	Hayden	Linda	Elizabeth City State University	PAESMEM	NSF-STC Center for Remote Sensing of Ice Sheets Education and Outreach
103	Hommerich	Uwe	Hampton University	HBCU-RISE	Infrastructure Support for Doctoral Research in Optics & Photonics
105	Hosur	Mahesh	Tuskegee University		Advances in the Nanocomposites for Structural Applications
107	Howse	Robin	Orelena Hawks Puckett Institute	RDE (PPD)	Science Learning Ideas Pages: Science for Parents and Students With and Without Disabilities

POSTER SESSION LIST AND TITLE

Group B					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
2	Hudson	Richard	TPT Twin Cities Public Television		DragonflyTV SciGirls
4	Ingram	Valencia	Norfolk State University		Science and Technology Academicians on the Road to Success
6	Jeelani	Shaik	Tuskegee University	CREST - RISE	A significant improvement in mechanical properties of nylon by infusion of spherical nanoparticles
8	Johnson	Bernice	North Carolina Central University		The NCCU Summer Enrichment Program
10	Kim	Jason	Systemic Research, Inc.	MIE - HBCU-UP; TCUP	MIE Fact Book 2004 and Achievement Highlights
12	Lal	Ravindra	Alabama A&M University	HBCU-RISE	HBCU-RISE for the Development and Study of Advanced Sensors and Sensor Materials
14	Marra	Rose	University of Missouri -Columbia	GSE(GDSE)	Assessing Women In Engineering (AWE): Benefits and Applications
16	McNeely	Brenda	Southern University		LS-LAMP : Paving The Path
18	Merisotis Kee	Jamie Arnold	The Alliance for Equity in Higher Education		Model Institutions for Excellence: Long-term Investment, Sustained Results
20	Montelone	Beth	Kansas State University	GSE (GDSE)	The GROW Project
22	Muller	Carol	MentorNet		MentorNet, the E-Mentoring Network for Diversity in Engineering and Science
24	Murillo	David	Arizona State University/Hispanic Research Center	LSAMP-BD	Stochastic Parametric Forcing of a Swirling Flow

POSTER SESSION LIST AND TITLE

Group B					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
74	Stahel	Richard	Texas A&M University-Kingsville	CREST	CREST-RESSACA, Texas A&M University-Kingsville
76	Steinke	Jocelyn	Western Michigan University	GSE (GDSE)	Accessing Media Influences and Middle School-Aged Children's Perceptions of Women in SET
78	Stevens	Ron	UCLA/IMMEX Project	GSE (GDSE)	Machine Learning Models of Problem Space Navigation: The Influence of Gender
80	Stith	Patricia	Syracuse University		Changing the Campus Climate
82	Storeygard	Judy	TERC		Building an Inclusive Mathematics Community
84	Sundby	Valerie	DO-IT/University of Washington	RDE (PPD)	NSF Regional Alliances on Disability
86	Supalo	Cary	Pennsylvania State University		Independent Laboratory Access for the Blind
88	Thomas	Renard	Texas Southern University	HBCU-RISE	Assessment of Aquatic Environmental Estrogens in the Lower Galveston Bay Watershed
90	Thomas	Sandra	Institute for Broadening Participation	IGERT	Broadening Participation in IGERT
92	Towns	Lorraine	CUNY Graduate Center	AGEP	CUNY Magnet-Stem/AGEP: A Proven Pathway to Academic Success for Doctoral Scholars
94	Trujillo	Jovan	Arizona State University/Hispanic Research Center	LSAMP-BD	Improving flexible displays using high-k dielectrics
96	Tucker	Sheryl	University of Missouri-Columbia		Sharing the "Magic of Chemistry" with Girl Scouts
98	Tufekci	Zeynep	University of Maryland at Baltimore County	GSE (GDSE)	Tool or Toy: Gender Differences in Pre-teen Attitudes Toward ICT

POSTER SESSION LIST AND TITLE

Group B					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
100	Uddameri	Venkatesh	Texas A&M University-Kingsville		CREST-RESSACA, Texas A&M University-Kingsville
102	Urdapilleta	Alicia	Arizona State University/Hispanic	LSAMP-BD	Ring Vaccination as a Control Strategy for Foot-Research Center and-Mouth Disease
104	Vazquez-Alvarez	Terannie	Arizona State University/Hispanic Research Center	LSAMP-BD	Electrochemical and optical bioassays of nerve agents based on the organophosphorus-hydrolase mediate
106	Watkins	Andrew	Center for the Advancement of Scholarship on Engineering Education		Center for the Advancement of Scholarship on Engineering Education (CASEE)
108	Watkins	Steven	Louisiana State University	PAESMEM	Diversity at LSU
110	Wilhite	Rachel	University of Arizona/ASU-Hispanic Research Center	AGEP	Cockroach Allergen Reduction by Extermination Alone in Low-Income/Urban Homes-Random Control Trial
112	Wilkins	Brek	Oklahoma State University Center for Health Sciences	LSAMP	Early Detection of Diabetic Neuropathy in Native Americans
114	Willis	Jerrald	Arizona State University/Hispanic Research Center	LSAMP-BD	Real-Time Embedded Control for A Class of Electromechanical Systems
116	Zulli-Lowe	Rebecca	NC OPT-ED, UNC Chapel Hill	AGEP	The North Carolina Alliance to Create Opportunity Through Education (NC OPT-ED)

POSTER SESSION LIST AND TITLE

Group B					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
26	Murphy	Teri	University of Oklahoma	GSE (GDSE)	Why Does it Work? A Study of Successful Gender Equity in Industrial Engineering at the Univ of Oklah
28	Ormeno	Richard	Arizona State University/Hispanic Research Center	LSAMP-BD	Frequency Independent Circularly Polarized Self-Complementary Antenna
30	Ortiz	Angela	Arizona State University/Hispanic Research Center	LSAMP-BD	Finding Significant Factors for Predicting Problematic Children
32	Owens	John	Southern University	HBCU-RISE	Enhancement of Environmental Doctoral Research at Southern University
34	Pandya	Rajul	UCAR SOARS Program	PAESMEM - Bernard Grant, ATM	Significant Opportunities in Atmospheric Research and Science
36	Peterson	Karen	Puget Sound Center for Teaching, Learning and Technology	GSE (GDSE)	National Girls Collaborative Project
38	Pinero	Ana	University of Puerto Rico	LSAMP	The Puerto Rico LSAMP Program
40	Puri	Ashok	University of New Orleans		Minority Access to Science and Math Education
42	Pyrtle	Ashanti	University of South Florida - College of Marine Science	LSAMP-BD	NSF FGLSAMP Bridge to the Doctorate Project at the University of South Florida
44	Rangel	David	Lincoln University	LSAMP	Characterization Of SOD-1 In Chick Spinal Motor Neuron Development.
46	Rascon	Brenda	Arizona State University/Hispanic Research Center	LSAMP-BD	An examination of autoventilation in live insects using synchrotron x-rays
48	Reeves	Melissa	Tuskegee University		Synthesis and Characterization of Structural Nanocomposites

POSTER SESSION LIST AND TITLE

Group B					
	LAST NAME	FIRST NAME	ORGANIZATION	PROGRAM	POSTER TITLE
50	Rennie	Robin	Michigan AGEP Alliance		The Michigan AGEP Alliance
52	Riccobono	Mark	National Federation of the Blind	RDE (PPD)	A National Clearinghouse for Blind and Low Vision Students in STEM: A Web Portal
54	Rios	Roxanne	Arizona State University/Hispanic Research Center		Soil Carbon Analysis in the Antarctic Peninsula
56	Robbins	Danielle	Arizona State University/Hispanic Research Center		The Effects of Lifestyle Choices on Atherosclerosis: A Mathematical Approach
58	Robertson	Kent	Shodor Ctr for Computational Science Education	RDE (PPD)	DEAF-STEM: Deaf Educational Access For Science, Technology, Engineering and Mathematics
60	Romero	Daniel	Arizona State University/Hispanic Research Center	LSAMP-BD	An Epidemiological Approach to the Spread of Political Third Parties
62	Romero	Manuela	University of Wisconsin	LSAMP	Wisconsin Alliance for Minority Participation (WiscAMP)
64	Roque	Eric	Tulane University - Graduate Alliance for Education in Louisiana (GAELA)	AGEP	Graduate Alliance for Education in Louisiana (GAELA)
66	Segura	David	Arizona State University/Hispanic Research Center	LSAMP-BD	Epidemiology and Evolution of the Influenza Virus
68	Shaw	Pamella	Purdue University		LSAMP Indiana and Midwest Crossroads AGEP
70	Song	David	North Carolina A&T State University	HBCU-RISE	Research on Bio-inspired Adaptive Systems at NC A&T
72	Sorby	Sheryl	Michigan Technological University		Developing 3-D Spatial Skills of Middle School Students: A Pilot Study





HRD STAFF MEMBERS AND PROGRAMS

Dr. Victor Santiago, Acting Division Director

AGEP - Alliances for Graduate Education and the Professoriate

Program Director	Program Assistant	Program Specialist	Science Assistant
Roosevelt Johnson <i>ryjohnso@nsf.gov</i> 703-292-4669	Cynthia Douglas <i>cdouglas@nsf.gov</i> 703-292-5175	Jamie Scipio <i>jscipio@nsf.gov</i> 703-292-4675	April Boyd <i>amboyd@nsf.gov</i> 703-292-4616

CREST* and HBCU-RISE*

Program Director	Program Director	Program Assistant	Program Specialist	Science Assistant
Victor Santiago <i>vsantiag@nsf.gov</i> 703-292-4673	James Powlik <i>jpowlik@nsf.gov</i> 703-292-4681	Toni Edquist <i>tedquist@nsf.gov</i> 703-292-4649	Jamie Scipio <i>jscipio@nsf.gov</i> 703-292-4675	April Boyd <i>amboyd@nsf.gov</i> 703-292-4616

HBCU-UP - Historically Black Colleges and Universities Undergraduate Program

Program Director	Program Director	Program Specialist	Science Assistant
Jessie DeAro <i>jdearo@nsf.gov</i> 703-292-5350	Camille McKayle <i>cmckayle@nsf.gov</i> 703-292-4671	Jamie Scipio <i>jscipio@nsf.gov</i> 703-292-4675	April Boyd <i>amboyd@nsf.gov</i> 703-292-4616

LSAMP* and LSAMP-BD*

Program Director	Program Specialist	Science Assistant
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MIE - Model Institutions for Excellence

Program Director	Program Manager	Program Assistant	Program Specialist	Science Assistant
David Temple <i>dtemple@nsf.gov</i> 703-292-4674	Martha James <i>mjames@nsf.gov</i> 703-292-7772	Cynthia Douglas <i>cdouglas@nsf.gov</i> 703-292-5175	Gloria Strothers <i>gstrothe@nsf.gov</i> 703-292-4718	April Boyd <i>amboyd@nsf.gov</i> 703-292-4616

*CREST - Centers for Research Excellence in Science and Technology

*HBCU-RISE - HBCU Research Infrastructure for Science and Engineering

*LSAMP - Louis Stokes Alliance for Minority Participation

*LSAMP-BD - LSAMP Bridge to the Doctorate

HRD STAFF MEMBERS AND PROGRAMS

Dr. Victor Santiago, Acting Division Director

PAESMEM - Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring

Program Director	Program Manager	Program Assistant	Program Specialist	Science Assistant
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RDE - Research in Disabilities Educationa

Program Director	Program Assistant	Program Specialist	Science Assistant
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GSE - Research on Gender in Science and Engineering

Program Director	Program Assistant	Program Specialist	Science Assistant
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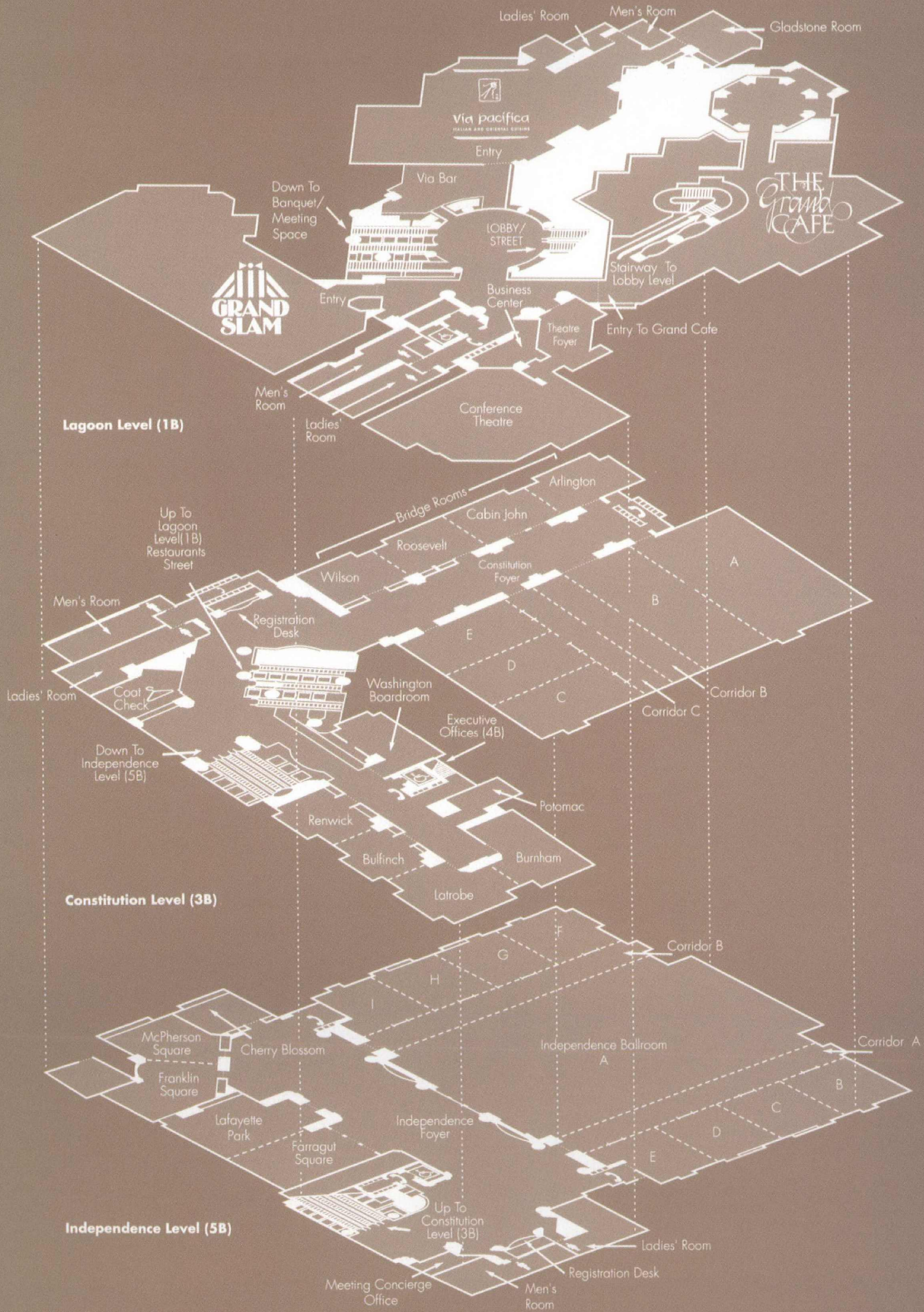
TCUP - Tribal Colleges and Universities Program

Program Director	Program Director	Program Assistant	Program Specialist	Science Assistant
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Division Secretary	Cynthia Douglas	703-292-5175
HRD Calendar	Cynthia Douglas	703-292-5175
Information Technology Specialist	JT Clark	703-292-8219
Assistant Program Director	Martha James	703-292-7772
Administrative Officer	Pamela Bailey	703-292-4664
Financial Operations Specialist	Victoria Smoot	703-292-4677
Quality Control	Gloria Strothers & Jamie Scipio	703-292-8640
JAM (Joint Annual Meeting)	Program Directors and Program Staff	703-292-8640
PAESMEM Ceremony	Toni Edquist, April Boyd, & Gloria Strothers	703-292-4649

HOTEL FLOOR PLAN

Grand Hyatt Hotel Washington, DC



University Women Arizona State University Association for Women in Science Auburn University
Virginia Tech Blackfeet Community College BMI-PNWD Boston University School of Medicine
City, Los Angeles-CEA-CREST California State University, Sacramento Carnegie Mellon University
Orane Sciences Central State University Chicago State University Chief Dull Knife College City
Nation College of Technology & Applied Sciences Colorado College Colorado State University
of Biology Drexel University Education Development Center/Center for Children and Technology
Program FGLSAMP- Florida State University Florida A&M University Florida A&M University/FAMU
Community College Fort Belknap College Fort Berthold Community College Fort Peck Community
uate School, Colorado State U. GTEC Hampton University Henry Luce Foundation Howard
ices Institute-USC Institute for Research on Women and Gender, University of Michigan Institute
nsas State University Kentucky State University Kumu Ola Program Langston University LSAMP
Mid-America Earthquake Center Miles College Museum of Science Museum of Science, Boston
England Board of Higher Education New Mexico State University New Mexico State University/NM
Carolina A&T State University North Carolina Alliance to Create Opportunity through Education (OPT-
west Indian College NSF STC University of North Carolina NSF/Division of Human Resource
s/Astro Department, University of Delaware Prairie View A&M University Project PRISM PSU/WEP
International Inc. Quality Education for Minorities (QEM) Network RASEM Squared/CAGE Rice
avannah State University Seton Hall University SFSU Shelby County Schools Shodor Education
y Southern Illinois University Southern University and A&M College Southern University at New
cal Community College SREB SREB-AGEP Doctoral Scholars Program St. Augustine's College
Graduate School Systemic Research, Inc. Talladega College TAMU TAMUS LSAMP Bridge to
M University, Kingsville Texas A&M University Texas A&M University System LSAMP Texas A&M
ch Council The Ohio State University The Spurwink Institute TMCC Tougaloo College Tulane
ter for Embedded Networked Sensing UCSD, Academic Enrichment Programs UIUC UMBC,
University of Alabama at Birmingham University of Alaska Anchorage University of Arkansas at Pine
University of California, San Francisco University of Connecticut University of Delaware University
University of Houston University of Houston/LSAMP University of Illinois at Urbana-Champaign
of Maryland College Park University of Maryland, Baltimore County/CWIT University of Maryland,

NATIONAL SCIENCE FOUNDATION
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JAM 06

2006 JOINT ANNUAL MEETING



NATIONAL SCIENCE FOUNDATION
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