

**Fifteenth Annual National Conference of the  
Quality Education for Minorities (QEM)  
Mathematics, Science, and Engineering (MSE) Network  
February 24-25, 2006**

Conference Theme: *Taking Stock, Celebrating Success, and Moving Forward:  
Broadening STEM Participation*

**FRIDAY, FEBRUARY 24**

**AM**

- 8:30 REGISTRATION AND CONTINENTAL BREAKFAST *Elevator Foyer*
- 9:00 WELCOME AND OPENING PLENARY SESSION *West End Ballroom AB*  
Clara Adams, QEM/MSE Network Steering Committee  
Treasurer, QEM Board of Directors, and  
Special Assistant to the President, Morgan State University  
Shirley McBay, President, QEM Network
- 9:15 *Taking Stock: Research Findings on STEM Participation*  
Keynote Speaker: Reginald Wilson, Senior Scholar Emeritus  
American Council on Education
- 9:45 Panel: *Highlights of Three Major Reports*  
Moderator: Willie Pearson, Jr., 1999 QEM Giant in Science, Professor and Chair  
School of History, Technology, and Society  
Georgia Institute of Technology
- (1) *Land of Plenty: Diversity as America's Competitive Edge in Science Engineering  
and Technology,*  
Commission on the Advancement of Women and Minorities in Science,  
Engineering and Technology Development  
J. Arthur Jones, Senior Associate, QEM Network
- (2) *A Bridge for All: Higher Education Design Principles to Broaden Participation  
in Science, Technology, Engineering and Mathematics,*  
Building Engineering and Science Talent (BEST)  
Daryl Chubin, Director, Center for Advancing Science & Engineering Capacity  
American Association for the Advancement of Science
- (3) *Broadening Participation in America's Science and Engineering Workforce,*  
Committee on Equal Opportunities in Science and Engineering (CEOSE)  
Beverly Karplus Hartline, Dean  
College of Mathematics, Natural Sciences, and Technology  
Delaware State University
- 10:45 *Coffee Break* *Elevator Foyer*

11:00 *Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future*, The National Academies West End Ballroom AB

Keynote Speaker: Deborah D. Stine, Associate Director  
Committee on Science, Engineering, and Public Policy  
National Academy of Sciences

## **NOON/PM**

12:00 LUNCHEON AND PLENARY SESSION West End Ballroom D  
Moderator: Thomas Cole, Chair, QEM Board of Directors, and President Emeritus  
Clark Atlanta University

Topic: *Moving Forward: An Overview of the American Competitiveness Initiative*

Keynote Speaker: Diane Jones, Deputy to the Associate Director for Science  
Office of Science and Technology Policy (OSTP) Science Division

2:00 PLENARY PANEL West End Ballroom AB

Theme: *Moving Forward: Implementing the American Competitiveness Initiative*

Moderator: Norman Fortenberry, Director, Center for the Advancement of Scholarship  
on Engineering Education (CASEE), National Academy of Engineering

U.S. Department of Education (DEd):

Patricia Ross, Team Leader for Math and Science Partnerships and  
Robert Stonehill, Deputy Director for Academic Improvement and Teacher Quality  
Office of Elementary and Secondary Education

National Science Foundation (NSF):

Thomas L. Windham, Senior Advisor, Science and Engineering Workforce  
Office of the Director

3:00 *Coffee Break* Elevator Foyer

3:15 CONCURRENT SESSIONS

Note: Sessions IA and IC begin at 3:15 pm and Sessions IB and ID begin at 4:15 pm

Theme: *Taking Stock and Moving Forward: A Closer Look at The Gathering Storm*

Session IA: Recommendation A: K-12 Education West End Ballroom AB

Discussion Leader: Adrienne Bailey, QEM Technical Advisor, and  
Program Manager, Stupski Foundation

Presentation: Julie Maier, Assistant Professor  
University of Alaska Fairbanks–Interior–Aleutians Campus

Session IC: Recommendation C: Best and the Brightest West End Ballroom C

Discussion Leader: Manuel Berriozabal, 1998 QEM Giant in Science, and  
Professor, Department of Mathematics  
University of Texas at San Antonio

Presentation: A. James Hicks, Program Director  
Louis Stokes Alliance for Minority Participation, NSF

**PM**

4:15 CONCURRENT SESSIONS (continued)

Theme: *Taking Stock and Moving Forward: A Closer Look at The Gathering Storm*

Session IB: Recommendation B: *Higher Education and Research* West End Ballroom AB

Discussion Leader: William Jackson, 2001 QEM Giant in Science  
and Professor, Department of Chemistry  
University of California-Davis

Presentation: Jeanette Brown, Retired  
New Jersey Institute of Technology  
"African American Women Chemists  
Who Made a Difference"

Session ID: Recommendation D: *Innovation and Investment* West End Ballroom C

Discussion Leader: S. James Gates, 1999 QEM Giant in Science,  
Secretary, QEM Board of Directors,  
and Professor, Department of Physics  
University of Maryland College Park

Presentations: Juan Figueroa, Program Director  
Small Business Innovation Research (SBIR), NSF

Alfred Amah, Professor, Coppin State University  
"Tegrity Technology: The Enhancement of Teaching  
and Learning"

5:15 Break

5:30 Reception: Georgetown I

***Celebrating Success (Part I): Recognition of Individual, Programmatic,  
and Institutional Initiatives to Broaden STEM Participation – CATALYST AWARDS***

Honorees:

*Broadening Participation and Effective Mentoring in STEM*

Howard G. Adams, Executive Director, National Consortium for  
Graduate Degrees for Minorities in Engineering (GEM), 1977-1995

Presented by Vallie Guthrie, 1998 QEM Giant in Science

*Broadening Participation in STEM*

Harriett G. Jenkins, Assistant Administrator for Equal Opportunity  
Programs, National Aeronautics and Space Administration (NASA), 1974-1992

Presented by Juliette Bell, 1997 QEM Giant in Science

*Systemic Change in STEM*

Luther S. Williams, Assistant Director, Education and Human Resources  
Directorate, National Science Foundation (NSF), 1990-1999

Presented by Robert Bonner, 1995 QEM Giant in Science

## SATURDAY, FEBRUARY 25

### AM

- 8:30 Continental Breakfast Elevator Foyer
- 8:45 OPENING PLENARY SESSION West End Ballroom AB  
*Moving Forward: Reports from Friday's Concurrent Sessions on The Gathering Storm  
and Recommendations for Next Steps*  
Moderator: Thomas Cole, Chair, QEM Board of Directors, and President Emeritus  
Clark Atlanta University
- 9:30 TWO CONCURRENT SESSIONS  
Theme: Moving Forward: Role of Minority-serving Institutions  
in Implementing Major Reports
- Session I: K-16 Faculty and Student Development West End Ballroom AB  
Discussion Leader: Vinetta Jones, QEM Technical Advisor, and  
Professor, School of Education, Howard University  
Presentations: Mark Melton, Associate Professor, St. Augustine's College  
"Promotion and Tenure for Junior Faculty at HBCUs"  
Arthur Bowman, Professor, Norfolk State University
- Session II: Institutional Transformations and Curriculum Reform Thomas  
Discussion Leader: Edgar Epps, 2004 QEM Giant in Science and Professor  
Department of Educational Policy and Community Studies  
University of Wisconsin-Milwaukee  
Presentations: Evelyn White, Vice President for Academic Affairs  
Alabama State University  
Ronald Mickens, Professor, Clark Atlanta University  
"The Use of Required General Science Courses to  
Broaden STEM Participation"
- 11:00 Break
- 11:15 PLENARY SESSION West End Ballroom AB  
*Moving Forward: Reports from Two Concurrent Sessions and  
Recommendations for Next Steps*  
Moderator: Edgar Epps, Professor, University of Wisconsin-Milwaukee

### NOON/PM

- 12:00 AWARDS LUNCHEON West End Ballroom DE  
Master of Ceremonies: Billy Joe Evans, 2000 QEM Giant in Science and  
Professor Emeritus, University of Michigan
- Celebrating Success (Part II): Recognition of Initiative and Leadership*  
❖ Alonzo Crim Student Awards for Excellence in Mathematics and/or Science  
Presented by: Nellouise D. Watkins, 1996 QEM Giant in Science  
Adaora Ikwuagwu, Senior, Delaware State University  
Rikki Chenese Vinson, Junior, North Carolina A&T State University

## NOON/PM

12:00 AWARDS LUNCHEON (continued) *West End Ballroom DE*

### *Celebrating Success (Part II): Recognition of Initiative and Leadership*

- ❖ *Etta Zuber Falconer Excellence in Mathematics Teaching Award*  
Robert E. Megginson, Professor, University of Michigan
- ❖ *Richard Nicholson Excellence in Science Teaching Award*  
Robert A. Desharnais, Professor, California State University at Los Angeles
- ❖ *Erich Bloch Distinguished Service Award*  
Norman C. Francis, President, Xavier University
- ❖ *QEM/MSE Network 2006 Giants in Science Awards*  
Presented by Billy Joe Evans, 2000 QEM Giant in Science and  
Curtis L. Patton, 2005 QEM Giant in Science

*Education Policy Research:* Daryl E. Chubin, Director  
Center for Advancing Science and Engineering Capacity  
American Association for the Advancement of Science

*Mathematics:* Kenneth C. Millett, Professor of Mathematics  
University of California-Santa Barbara

*Chemistry:* James W. Mitchell  
David and Lucile Packard Professor of Materials Science  
Howard University

*Environmental Science:* Carlos David Robles, Professor of Biological Sciences  
California State University-Los Angeles

2:30 CLOSING PLENARY SESSION *Thomas*  
*Identification and Discussion of Possible New National and QEM Initiatives*  
Moderator: Shirley McBay, QEM Network

3:30 Open Meeting of the QEM/MSE Network Steering Committee *Thomas*  
Moderator: Clara Adams, Morgan State University

**Note: 2:30 – 4:30 Special Activities for Area Middle School Students** *Georgetown I*

Area Middle School Students *Interview the Scientists*  
Participating *Giants in Science* and Other Area Scientists and Engineers

4:30 *Adjournment*