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  
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  
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  
**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  
**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  
**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
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

Presentation: 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
    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

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
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
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