

## SHIRLEY M. MCBAY

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Shirley McBay assumed the position of President of the QEM Network in July 1990, following ten years as Dean for Student Affairs at the Massachusetts Institute of Technology (MIT) and three years as Director of the MIT-based QEM Project. The QEM Network was established to help implement the recommendations contained in the QEM Project's January 1990 report: *Education That Works: An Action Plan for the Education of Minorities*. Prior to serving in the MIT Administration, Dr. McBay served for five years as Program Manager/ Director in the Science Education Directorate of the National Science Foundation (NSF) and as a member of the faculty and administration at Spelman College in Atlanta over a fifteen-year period.

At NSF, she directed two national programs designed to increase minority participation in science and engineering. While at Spelman, she held various positions including Professor of Mathematics, Department Head, Division Chair, and Associate Academic Dean. She received the B.A. degree in chemistry in 1954 summa cum laude at age 19; master's degrees in chemistry and mathematics from Atlanta University in 1957 and 1958 respectively; and the Ph.D. in mathematics from the University of Georgia in 1966. Dr. McBay holds honorary degrees from Morgan State University and the University of the District of Columbia.

At QEM, Dr. McBay has served as the director of several science and engineering-focused projects. These include several NSF-supported projects:

- Technical Assistance Project that focused on the 19 states in which underrepresented minorities were at least 25 percent of each state's high school graduates, Puerto Rico, and the District of Columbia
- The North Carolina Technical Assistance Project to better understand the reasons for North Carolina's success in leading other states in the production of underrepresented minority STEM degree recipients at the undergraduate and doctoral level
- The Academic Research Infrastructure Technical Assistance Project
- The Parent Leadership Development Project
- The HBCU-UP Technical Assistance Project
- The Tribal Colleges and Universities Technical Assistance Project
- The Major Research Instrumentation Technical Assistance Project
- The Faculty Early Career (CAREER) Technical Assistance Project
- The Biological Sciences Directorate Technical Assistance Project
- The Teacher Professional Continuum Information and Technical Assistance Projects (four projects)
- The Science and Technology Centers Doctoral Internship Program
- The Science Student Internship Program
- The Engineering Database Project
- The Leading Producers of Underrepresented Minority Doctoral Degree Recipients in the Social, Behavioral, and Economic Sciences Project

She also directed several projects supported by the National Aeronautics and Space Administration' (NASA):

- NASA's Research Apprenticeship Program for High School Students for ten years
- The Scholarly Development and Technical Assistance Project for Principal Investigators in NASA's Faculty Awards for Research Program
- The Evaluation of NASA's Faculty Awards for Research Program

Other projects directed by Dr. McBay included the following:

- The Annenberg/CPB Math and Science Project-supported Minority Mathematics and Science Teacher Leadership Corps; and
- The Teagle Foundation-supported Scholarly Productivity Project for Junior Faculty at HBCUs.