

Authors' Biosketches

Shirley M. Malcom
Daryl E. Chubin
Jolene K. Jesse

Shirley M. Malcom

Shirley Malcom is Head of the Education and Human Resources Programs of the American Association for the Advancement of Science (AAAS). The programs include AAAS programs in education, activities for underrepresented groups, and public understanding of science and technology. Dr. Malcom was head of the AAAS Office of Opportunities in Science from 1979 to 1989. Between 1977 and 1979, she served as program officer in the Science Education Directorate of the National Science Foundation (NSF). Prior to this, she held the rank of assistant professor of biology, University of North Carolina, Wilmington, and for two years was a high school science teacher.

Dr. Malcom received her doctorate in ecology from the The Pennsylvania State University; master's degree in zoology from the University of California, Los Angeles; and bachelor's degree with distinction in zoology from the University of Washington. In addition she holds thirteen honorary degrees.

Dr. Malcom serves on several boards, including the Howard Heinz Endowment. She is an honorary trustee of the American Museum of Natural History, a Regent of Morgan State University, and a trustee of Caltech. She has chaired a number of national committees addressing education reform and access to scientific and technical education, careers and literacy. Dr. Malcom is a former trustee of the Carnegie Corporation of New York and a fellow of the AAAS and the American Academy of Arts and Sciences. In 2003, she received the Public Welfare Medal of the

National Academy of Sciences, the highest award bestowed by the Academy.

Dr. Malcom was a member of the National Park System Advisory Board from 1999–2003. She served on the National Science Board, the policymaking body of the National Science Foundation from 1994 to 1998, and from 1994–2001 served on the President's Committee of Advisors on Science and Technology.

Daryl E. Chubin

Daryl Chubin became Director of the new AAAS Center for Advancing Science & Engineering Capacity, at the American Association for the Advancement of Science, in August 2004. Prior to that, he served 3+ years as Senior Vice President, Research, Policy & Programs, at the National Action Council for Minorities in Engineering (NACME) Inc., in White Plains, New York, after nearly 15 years in federal service. Posts included three years (1998–2001) as Senior Policy Officer for the National Science Board at the National Science Foundation (NSF); Division Director for Research, Evaluation and Communication in NSF's Directorate for Education and Human Resources (1993–98); and (on detail) Assistant Director for Social and Behavioral Sciences (and Education) at the White House Office of Science and Technology Policy (1997). He began his federal career in 1986 at the congressional Office of Technology Assessment.

Dr. Chubin has served on the faculty of four universities, including Georgia Tech, where he was promoted to full professor. He has published eight books and numerous policy reports, articles, and commentaries on issues in science policy, human resource development, program evaluation, and engineering education.

Among Chubin's honors are: AAAS Fellow, Past Chair of the AAAS section on Societal Impacts of Science and Engineering, Fellow of the Association for Women in Science, member of the National Academy of Engineering Committee on Diversity in the Engineering Workforce, Integrator for BEST (Building Engineering and Science Talent), and co-recipient of the American Society of Engineering Education Wickenden Award for best paper published in the 2003 volume of *The Journal of Engineering Education*.

Jolene K. Jesse

Jolene K. Jesse is a Program Director for Cross Directorate Activities in the Directorate for Social, Behavioral and Economic (SBE) Sciences at the National Science Foundation. She oversees programs to promote education and to increase the numbers of women and minorities in the SBE fields.

During the development of this guidebook, Dr. Jesse was a Senior Program Associate in the American Association for the Advancement of Science's Directorate for Education and Human Resources Programs, where she conducted research on science, technology, engineering and math education and policy issues, with special emphasis on the representation of women and underrepresented minorities in those fields. She received her Ph.D. in political science from the University of Wisconsin-Milwaukee, and a M.A. from The American University in Washington, DC.