

# Sheila Tobias

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## **PROFESSIONAL PREPARATION**

B.A. Radcliffe College, Harvard University, History & Literature, *Magna Cum Laude Phi Beta Kappa*  
M.A. Columbia University, European History  
M. Phil Columbia University, History  
Eight Honorary Doctorates 1990-2005, including Michigan State University, SUNY Potsdam, Wheelock College of Education, Drury College, and Worcester Polytechnic Institute

## **HIGHER EDUCATION INNOVATION**

### ***Math Anxiety, Women's Studies, design and promotion of alternate M.S. degree (PSM) for STEM majors; Tracking Graduates through Social Media***

Consultant/grantee, Alfred P. Sloan Foundation, PSM outreach and development for what became known as the Professional Science Master's degree, 1997-2014

Sub- contractual evaluator on the National Science Foundation's SMP (Science Master's program) 2012-2014

Visiting Consultant on "Science-Based Business" program development, Universities of Amsterdam and Leiden, The Netherlands 1996-97

On special assignment to analyze shortfall of physical science majors in U.S. universities for [Research Corporation for Science Advancement](#), resulting in four books on science education (see Books) 1989-1995; 2008-2010

Intermittent grant funding for innovation in women's education, FIPSE (Math Anxiety), The Ford Foundation (Women's Studies).

## **TEACHING/UNIVERSITY ADMINISTRATION**

- 1982-1992 Visiting Lecturer, spring quarters, "Gender and Politics", Department of Political Science, University of California, San Diego.
- 1991-1997 Regular Summer Lecturer, Claremont Graduate School, Course taught: "Gender Issues in Education."
- 1982-1989 Regular Summer Lecturer in "The Nuclear Predicament" with John Jungerman, professor of Physics, University of Calif. Davis
- 1978-1981 Director, Math Anxiety (training trainers/dissemination) Project, Washington School of Psychiatry
- 1970-1978 Associate Provost, Wesleyan University, Middletown, Connecticut. Primary administrative focus was on helping this formerly all-male institution make the transition to coeducation. This included the hiring of women faculty and other key personnel. Also co-organized a New England-wide Higher Education Resource Service for women academic professionals, which later grew into the HERS Bryn Mawr Summer Institute for Women in Higher Education Administration. Courses taught: American Studies 210, "Gender and Politics," "Men and Women in Wartime."
- 1967-1970 Assistant to Vice President for Academic Affairs, Cornell University, with special emphasis on implementing the Kahn-Bowers report on undergraduate education. As part of what was first thought to be a "January Term" activity, launched one of the first Women's Studies courses later to become one of the first women's studies programs in the country.
- 1965-1967 Lecturer in History, City College of New York

## **NON-ACADEMIC WORK**

Reporter, general factotum for *The Army Times Publishing Co.*, Frankfurt Germany  
Advance Research for "Color in Britain" Intertel Documentary, 1963  
Researcher, ABC-TV for "The Crucial Summer", five part series on Civil Rights, 1964  
Freelance Radio Journalism for Canadian Broadcasting Co. 1964-65  
Assistant Director, Upward Bound, Charleston, South Carolina, 1966  
Visiting Evaluator, Prince Edward County Alternate School system, 1965

## **BOOKS IN REVERSE CHRONOLOGICAL ORDER**

*Banishing Math Anxiety*, with Victor Piercey, 2012 (Kendall Hunt)  
*Science Teaching as a Profession. Why it isn't How it could be*, with Anne Baffert, 2010 (National Science Teachers Association)  
*Faces of Feminism: An Activist's Reflections on the Women's Movement*, 1997 (Perseus Books)

*Rethinking Science as a Career* that recommended a new hybrid degree for physical scientists, 1995 (Research Corporation for Science Advancement).  
*The Hidden Curriculum: Faculty Made Tests in Science*, with Jacqueline Raphael, 1997 (Plenum)  
*Breaking the Science Barrier* (with Carl Tomizuka), 1992 (The College Board)  
*Revitalizing Undergraduate Science: Why some things work and most don't*, 1992 (Research Corporation for Science Advancement)  
*Women, Militarism, and War: Essays in History and Social Theory*, with Jean Bethke Elstain co-editors, 1990 (Rowman & Littlefield).  
*They're not dumb, they're different*, 1990 (Research Corporation for Science Advancement)  
*Succeed with Math*, 1987 (The College Board)  
*The People's Guide to National Defense*, also published as *What Kinds of Guns are they buying for your Butter? A Beginner's Guide to Defense, Weaponry, and Military Spending*, with Peter Goudinoff, Shelah Leader, Stefan Leader, 1982 (William Morrow)  
*Overcoming Math Anxiety*, 1978 and 1994 (revised) (W.W.Norton)

#### **ARTICLES ABOUT THE RECENT WORK ON TRACKING GRADUATES: ASSESSING PSM**

Sheila Tobias, "Professional science degree may be 21<sup>st</sup> century MBA," *Science News*, June 20, 2009 - *Scientific American*, Special Section, November 2013  
"Where did your graduate students end up? Linked In Knows," by Stacey Patton, *The Chronicle of Higher Education*, June 11, 2012  
Sheila Tobias and Susan Richards, "PSM mathematics professionals: where are they working? How are they employed?" Publication pending.  
Sheila Tobias, Susan Richards, and Donald Langenberg, "Targeting Grads through Social Media: A first-time Probe." Elizabeth Olson, "A Degree where Techie Meets Business Smarts," *New York Times*, March 17, 2014.

#### **REFERENCES**

References are available on request.