

RESUME

NAME: Margaret Burke Emmett

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EDUCATION: Warrenton High School, Warrenton, Va., Valedictorian
Tennessee Tech University, Bachelor of Science in Mathematics,
with Highest Distinction
University of Tennessee, graduate work in Applied Mathematics
(Partial Differential Equations).

PROFESSIONAL EXPERIENCE: 1960 - present - Oak Ridge National Laboratory (originally Union Carbide Nuclear but now UT Battelle, LLC) in the Nuclear Engineering Applications Department of the Computational Physics and Engineering Division. Group Leader of Nuclear Code Development Group - Technical Computing Consultant - Nuclear Engineer - Work Force Diversity Representative - Facility Manager of Building 6011. Area of expertise is in Monte Carlo calculations and code development. Primary responsibility for development and maintenance of all current Oak Ridge versions of the MORSE Monte Carlo code system and the two SCALE shielding analysis systems, SAS3 and SAS4 that include MORSE-SGC. Serve as Configuration Coordinator for the SCALE system. Have taught Tennessee Industries Week course at UT. Member of a People to People delegation of American Nuclear Community Leaders to the Soviet Union, Hungary and Czechoslovakia in 1986, visiting with the nuclear scientists of these countries at their institutes.

COMMUNITY AND ORGANIZATIONAL EXPERIENCE:

Academic Honor Fraternities - Kappa Mu Epsilon and Phi Kappa Phi

American Nuclear Society - Currently Chair of Meetings, Transactions and Proceedings Committee, Member of Professional Women in ANS Committee, and Member of NEED Committee. Currently on the Executive Committee of the Radiation Protection & Shielding Division (RPSD). Served as Chair of RPSD in 1992-93 after serving as Vice-Chair, Treasurer and member of its Executive Committee for 1986-89. Chair of Publications Committee for 1985 M&C Topical, Chair of Arrangements Committee for 1998 RPSD Topical. Chair of the Oak Ridge-Knoxville Section in 1991-92 after serving as Vice-Chair in 1990-91, Secretary in 1989-90 and as a member of its Executive Committee (1986-89). Currently Bylaws Committee Chair of Section.

American Association of University Women - SouthEast Central Regional Director of AAUW 1997-1999. President of the Tennessee State AAUW 1991-94. Branch President of Knoxville

Branch and as Auditor, Treasurer, Yearbook Editor, Finance Committee Chair, Career Fair for 'Women in Engineering', Coordinator and instructor of Computer Basics Workshops on local, state and regional level, Book Sale Chair. Association Development Committee. Served as State Bulletin Editor, Public Information Chair, Tennessee issue chair for "Choices for Tomorrow's Women" and "Taking Hold of Technology", Legal Advocacy Fund Chair, and Parliamentarian. Initiated a statewide project for AAUW in 1991, a series of math/science programs, named SHADES (SHaring ADventures in Engineering and Science) for middle-school girls and their math and science teachers. SHADES is highly successful and is sponsored by a coalition of organizations including ANS, SWE and AWIS.

Tanasi Girl Scout Council - Instructor at Girl Scout Computer Fun Badge Day sponsored by the Council, the Tennessee Mathematics and Computer Sciences Foundation and the American Museum of Science and Energy.

SouthEastern Consortium for Minorities in Engineering - Instructor in computer science for Summer Workshop for high school students.

Northside Christian Church - Treasurer (1989-1994), member of Finance Committee, Deacon (1984-87), elder (1990-1996).

Association for Women in Science - member, worker in "Science in Action" and "Science by Mail" programs.

Boost-Her Club of U. T. Women's Athletic Department - President 1999-2001; Vice-President (1997-1999), previously Secretary and Director.

Member of University of Tennessee Athletic Board - 1999-2001.

League of Women Voters - member.

Fountain City Town Hall - member.

Women in Nuclear - member.

HONORS: Who's Who in American Colleges and Universities

Who's Who Among American Women, 1989,1990.

International Who's Who of Professional & Business Women, 1987-90.

Who's Who in Science and Engineering.

Golden Poet and Silver Poet Awards from World of Poetry.

Annie Selwyn Award Finalist in 1990.

President's Award for Performance Improvement from
Martin Marietta Energy Systems, Inc. in 1989.

Tennessee Leadership Class of 1991.

Distinguished Service Award from ANS RPS Division in 1996.

Outstanding Service Award from Oak Ridge/Knoxville Section of ANS in 1993.

Award for Sustained Work Force Diversity Program Contributions in 1997.

Outstanding Leader and Advocate Award from AWIS in 1998.

Winner of YWCA Tribute to Women Award in Science and Technology 1999.

Named a fellow of the American Nuclear Society - 2001.