

Bruce Tulloch

Assistant Clinical Professor of Education

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Education and Credentialing: BS in Science Education, Cornell University, 1968; MS in Advanced Classroom Teaching, University at Albany, 1972; MST in Biology, Union College, 1973; Certificate of Advanced Study, University at Albany, 1978; Ed.D. in Science Education, University at Albany, 1981; NEH Ancient Science Seminar, Harvard University; 1985; The Twentieth Friends Council Seminar on Teaching, Westown School, 1983; NSF/IDSE Leadership Conference, National Science Supervisors Association, 1980

Areas of Expertise and Research Interests: Alternate Science Conceptions, Conceptual Change Strategies, Science Education Policy Formation, Science Teacher Education, Science Curriculum Development, and Assessment in Science Education

Courses Taught at UGC: The Psychology of Teaching (Core course); Assessment Seminar, School Reform Seminar, MAT Project Advisement

Awards: Presidential Award, National Science Education Leadership Association, 2005; State Service Award, Science Teachers Association of New York State, 2005; Outstanding Leadership in Science Education Award, New York State Science Education Leadership Association, 2001; Appreciation Award, Nassau County Science Supervisors Association, 1994; Invited Participant, "Basic Biological Concepts: What Should the World's Children Know?", International Union of Biological Sciences, 1992; Invited Participant, "NRC Conference on High School Biology Education", National Academy of Sciences, 1988; Inducted into Cum Laude Society, 1982; University Fellow, University at Albany, 1973-74; inducted in Phi Delta Kappa, 1973

Selected Publications: "The Good, the Bad, and the Ugly", *Perspectives in Science Education*, January, 2008; "Influencing Science Education Reform in New York State", *NSELA Navigator*, June, 2004; *Chemical Safety Handbook*, New York State Education Department, 1990; "Does Science Have Values?", *Independent School Magazine*, 1982; "A Factor Analytic Study of Secondary Science Teacher Competencies Within Which Growth is Perceived as Important by Science Teachers, Supervisors, and Teacher Educators", *Journal of Research in Science Teaching*, September, 1986; *Energy Education: A Catalog of Resources*, New York State Education Department, 1980

Professional Activities: Facilitator, New York State Science Education Consortium, 2000-Present; Faculty Member, National Science Resources Center, 2007; Eastern Section Director, Science Teachers Association of New York State, 2003-2006; Region B Director, National Science Education Leadership Association, 2002-2005; President, Science Teachers Association of New York State, 2001-2002; President, New York State Science Education Leadership Association, 1998-1999.

Certifications and Professional Experience: New York State Permanent Certification in Earth Science, Biology, Chemistry and General Science, 1973. New York State Permanent Certification as

School Administrator and Supervisor, 1978. District Science Supervisor, Bethlehem Central School District, 1993-2007; Associate in Science Education, New York State Education Department, 1987-1993; Director of the Upper School (1985-1987), Science Department Chair (1980-1985), and Science Teacher (1978-1987), The Packer Collegiate Institute; Science Teacher, Schalmont Central School District, 1969-1978; Science Teacher, Perth Central School District, 1968-1969.

Consultant: Albuquerque Academy, American School of Madrid, Association of Colorado Independent Schools, Calhoun School, National Youth Science Camp, New York State Association of Independent Schools, New York State Education Department, and Saudi Aramco