

THOMAS E. MC DUFFIE

FORMAL EDUCATION

- The Executive Program University of VA 1983--
Management
- EdD Temple University 1973-- Science Education
- MS in Ed Temple University 1969-- Science Education
- BA Merrimack College 1965-- Chemistry

CONTINUING PROFESSIONAL EDUCATION

- The Executive Program sponsored by the University of Virginia's Colgate-Darden Graduate School of Business Administration. (During the intensive six week summer program rising executives from fifteen nations examined modern business activities ranging from accounting to computer use from international economics to human resource management.)
- The Financial Responsibilities of Academic Officers, American Council on Education
- Institute for Chief Academic Officers and Deans, American Council on Education
- Program for the Improvement of Elementary Science (PIES), Clarion University of Pennsylvania, 1991
- A series of Chautaugua Course including: "Designing and Developing Interactive Instructional Video Disc and Computer-Based Resources on a Macintosh" University of Pittsburgh, 1997; The Anasazzi Culture and Chaco Canyon, University of New Mexico, 2000; Dendrochronology, University of Arizona 2002

FACULTY POSITIONS

- Professor of Education, St. Joseph's University (1996-)
- Visiting Associate Professor, College of Human and Community Services, New Mexico State University (Spring 1991)
- Associate Professor of Education, St. Joseph's University (1977- 96)
- Assistant Professor of Education, St. Joseph's University (1972-77)
- Teaching Associate, Graduate Science Education Program, Temple University (1970-72)
- Science and Mathematic Instructor, Governor Dummer Academy, Byfield, MA (1965-68)

SELECTED PROFESSIONAL ACTIVITIES

Consulting Editor, Science Activities (Reappointed 2002-2007)

Science Education Consultant to the Pennsylvania Department of Education's Process Assessment through Themes (PATT) project (1995- 99)

Evaluator of Science Teacher Certification Programs at about twenty Pennsylvania colleges and universities for the Pennsylvania Department of Education (1975- present)

Member of the PECO Energy's Education Outreach Council (1993- 98)

Evaluator for the Alternative Teacher Certification Programs, New Jersey Department of Education (1989-91)

Conducted in-service teacher education workshops in science education for the National Diffusion Network, local school districts, and independent schools

Presenter at local, state, and national meetings of professional organizations

ADMINISTRATIVE RESPONSIBILITIES

Vice President for Administrative Services, St. Joseph's University (1985-87)
Responsible for operational aspects of the university—Administrative Computing, Building and Grounds, Mail Services, Purchasing, Safety and Security, Telecommunications, and the University Press. Administrative Services employed approximately 160 full and part-time workers and had an operating budget over \$9,000,000. Oversight included management of services to 50 buildings, commercial real-estate, contracted services-- bookstore, dining and house keeping. Part of this included the negotiation of major contracts including labor agreements with the physical plant and security unions.

Dean of the University College, St. Joseph's University (1980-85)
Chief academic officer for the University College and summer school. Instructional programs were staffed by 150 full and part-time faculty members who serviced a part-time student population of 2800 enrolled in baccalaureate, associate, and certification programs. Also included were non-credit and off-campus programs targeting business, government, and special interest groups. Responsibilities spanned the activities of an autonomous college. Emphasis was upon program development and quality, enrollment, and effective support services.

Director of Graduate Education, St. Joseph's University (1976-1980)
Responsible for the development and administration the part-time, professional MA and MS degree programs for teachers with concentrations in Business, Chemistry, Liberal Arts, Reading, and Social Studies. Related human services programs were developed or implemented in Health Administration.

Chair, Education Department, St. Joseph's University (1976-1980)

Duties included department management, leadership in establishing curricular goals, teacher certification programs, and liaison for the University with the Pennsylvania Department of Education.

Community Based Commitments

- Board of Directors, Pennsylvania Institute of Technology (1978-99&2003-)
- Pennsylvania Selection Committee for the Christa McAuliffe Fellowship Program (1989-90)
- Member, Newton Township Planning Commission (1982-85)
- Participant, Community Leadership Seminar Program, Wharton School of the University of Pennsylvania (1982-83)
- Chairman, "Red Ridge College," a white water canoeing instructional activity, co-sponsored by the American Red Cross (1974-82)

Fund-raising

Received two Competency Based Teacher Education Grants (CBTE) (\$3,500 each) to conduct workshops on the legal and instructional implications of Mainstreaming for Teacher Educators from Pennsylvania's liberal arts colleges Pennsylvania Department of Education (1974-75)

Received three CETA contracts totaling \$160,000 for Summer Youth Education and Training. Programs emphasized basic literacy and arithmetic skills as well as group work. Office of Education and Training (1983-85)

Received \$100,000 in supplies, materials, and equipment from private donors for St. Joseph's University (1985-87)

Received three contracts totaling \$50,000 from the School District of Philadelphia through the Eisenhower Program. These programs, designed for inner-city teachers, focused upon science content and hands-on instructional techniques.

- "Earth Science for Elementary and Middle School Teachers" (1989)
- "Modern Topics in Biology for Secondary Teachers" (1989)
- "Biology for Elementary Teachers" (1990)

A joint \$55,000 grant to St. Joseph's University and Beaver College for the development and delivery of an interdisciplinary program for middle school teachers from PECO's service area. "Energy Economics and the Environment" was funded by Philadelphia Electric Company (1991-92)

Received three grants (\$30,000 each) for "Activity Based Elementary Science." This program enrolled K-8 teachers from five counties in Eastern Pennsylvania. Funded through the Pennsylvania Science Teacher's Enrichment Program (PA STEP) (1992, 93 & 94)

Developed a Wonders of Water educational program for Philadelphia Suburban Water Company (1995)

Received two contracts totaling \$59,000 from the School District of Philadelphia through the Urban Systems Initiative. These programs, designed for inner-city teachers, focused upon science content and hands-on instructional techniques in Earth Science. The first was for middle school teachers while the second included K-5 (1998-99).

Received three grants—"Active Learning in the Physical Sciences" totaling \$272,000—involving middle grade teachers from Philadelphia's Public and Parochial schools. The projects were sponsored by the Eisenhower Professional Development Program and administered through the Pennsylvania Department of Education (1999-2002).

Received a grant for \$112,000 for "Active Learning in the Sciences for Middle-Grade Teachers" sponsored by the Eisenhower Professional Development Program and administered through the Pennsylvania Department of Education (2002-2003).

Grant in progress: Lazar, A., Macrine, S., and McDuffie, T. St. Joseph's University and the School District of Philadelphia Partnership for Literacy and Mathematics. This professional development effort is funded at \$450,000 per year for 3-5 years (2003-

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PUBLICATIONS

- McDuffie, T.E., Jr. (1973). Relationships Between Selected Personal Characteristics and Achievement Attitude and Success on an Audio-Tutorial Biology Program. Unpublished Doctoral Dissertation, Temple University, Philadelphia.
- McDuffie, T.E., Jr. (1973). Predicting high and low success-group membership in an A-T biology course. SMEAIC Science, Mathematics, and Environmental Education Information Analysis Center Report. Ann Arbor, Michigan 118-119.
- McDuffie, T.E., Jr. (1977). Predictions of achievement and success in ISCS--Level II. Abstracts of Presented Papers, NARST- 1977. Stanley L. Halgeson, Ed., ERIC Center for Science, Mathematics, and Environmental Education, The Ohio State University, 93-95.
- McDuffie, T.E., Jr. (1977). Making and testing common household items. Science Activities, 14 (6), 20-24.
- McDuffie, T.E., Jr. (1978). Contrasts of ISCS achievement groups- Levels I & II. Abstracts of Presented Papers, NARST- 1978, ERIC Clearinghouse for Science, Mathematics and Environmental Education, The Ohio State University 124-125.
- McDuffie, T.E., Jr. & Beehler, C. (1978). Achievement-workstyle relationships in ISCS Level I. Journal of Research in Science Teaching, 485-490.
- McDuffie, T.E., Jr. & Van Dine, W.E. (1978). Mapping earth science concepts. Science Activities, 15 (3), 14-16.
- McDuffie, T.E., Jr. & DeRose, J.V. (1979). Five years of achievement in ISCS Level I. Abstracts of Presented Papers NARST- 1979. ERIC Clearinghouse for Science, Mathematics and Environmental Education. The Ohio State University (Columbus, Ohio), 86-87.
- McDuffie, T.E., Jr. (1979). Predicting success in ISCS Level II. Journal of Research in Science Teaching, Winter, 39-44.
- McDuffie, T.E., Jr. & Anderson, J. (1980). Chemical Experiments from Daily Life, J. Weston Walch, Publisher; Portland, Maine.
- Santopolo, K. & McDuffie, T.E., Jr. (1980). Science activities as homework. Science Activities, 17, 17-23.

McDuffie, T.E., Jr. & Bruce, M. (1980). Predicting achievement and success in an AT biology program. Journal of Research in Science Teaching, 1980, 449-454. Abstracted in Investigations in Science Education. (Ed. Patricia E. Blosser, Volume 10, No. 1, The Center for Science, Mathematics and Environmental Education, Columbus, Ohio (1984) 46-50.

McDuffie, T.E., Jr. & Foster, P. (1981). The Purchase Major: A new academic program at Saint Joseph's University. The Philadelphia Purchasor, July, 11-12.

Box, L. & McDuffie, T.E., Jr. "Black men of American science and technology." A series of biographies published in Science Activities (1979-1982).

"Percy L. Julien," 16, (4), 24-25.

"Benjamin Bannaker," 17, (1), 11-12.

"Charles R. Drew," 17, 26.

"George Washington Carver," 17, 13.

"Ernest E. Just," 18, 16.

"Norbert Rillieux," 18, 25.

"Granville T. Woods," 18, 23.

"Charles Henry Turner," 19, 24.

McDuffie, T.E., Jr. & DeRose, J.C. (1982). Five Years of Achievement in ISCS. Science Education, 66, 35-43.

Foster, P. & McDuffie, T.E., Jr. (1982). Education may be the best investment for business for the 1980's. Mid-Atlantic Purchasing, July, 47-48.

George, R.J. & McDuffie, T.E., Jr. (1983). Higher education marketing: positioning is the key. Applying New Technology in Higher Education, National Issues in Higher Education, 7, 183-205.

Foster, P. McDuffie, T.E., Jr. (1984). Role of a small college of business in employee development and training. National Issues in Higher Education, 11, 136-143.

McDuffie, T.E., Jr. & Betz, P.R. (1988). Students: An untapped enrollment resource. The Journal of Continuing Higher Education, 31 (2), 24-26.

McDuffie, T.E., Jr. (1991). A Framework for the Impact Evaluation of the Carroll County Hands-On Elementary Science Program. Frederick, MD: Hood College, Dissemination Center for Hands-On Elementary Science. (ERIC Clearinghouse for Science, Mathematics and Environmental Education ED 344 740).

McDuffie, T.E., Jr. & Bernt, F.M. (1993). Contrasts between the perceptions of parents and their adolescent children regarding drug and alcohol use and prevention. Journal of Alcohol and Drug Education, 39, 92-106.

Steinberg, D. & McDuffie, T.E., Jr. (1993). Collaborative program to integrate science and social studies in the middle schools. Exchange, 15, 4.

McDuffie, T.E., Jr. & Steinberg, D. (1994). An integrated approach to teaching energy, economics, and the environment in the middle grades. Pennsylvania Journal of Teacher Leadership, (April), 10-15.

McDuffie, T.E., Jr. & Smith, B.R. (1995). Has anyone seen the "I" in ROY G. BIV? Science Scope, 18 (7), 30-33.

McDuffie, T.E., Jr. (1995). The search for indigo. Science Activities, 32 (3), 8-18.

McDuffie, T.E., Jr., Longo, J., & Neff, B. (1999). Handle with care. The Science Teacher, 66(6), 32-36.

McDuffie, T.E., Jr., Palmer, A. (2000). How big are raindrops? The Science Teacher, 67(2), 46-50.

McDuffie, T.E., Jr. (2000). Testing Spaghetti's Strength, or Lots of Pastabilities. Science Activities, 37(1), 20-24.

McDuffie, T.E., Jr. (2001). Scientists—Geeks & Nerds? Science and Children, 38(8), 16-19.

McDuffie, T.E. Jr. (2003). Sand: Close Up, its Amazing! Science Scope, 27(1), 31-35.

Other Professional Writing

Co-author "Proposal for the Redesign of Teacher Education" presented to the Pennsylvania Association of Liberal Arts Colleges for the Advancement of Teaching (PALACAT) Fall 1980.

McDuffie, T.E., Jr. (July 1987). Shared Values Make Catholic School Excellent. [Review of Public and Private High Schools: The Impact of Communities by J.S. Coleman and T. Hoffer Basic]. Catholic Standard and Times.

McDuffie, T.E., Jr., Cyrs, T.E., & Smith, F. (1991). Questions, questions, questions: Or there are no good answers, only good questions. An interactive video tape with study guide. Center for Educational Development. New Mexico State University:
Las Cruces, NM.

McDuffie, T.E. (2004). Bolivia, Chasm of Classes. Saint Joseph's University Magazine, 18(2), 32

Dissertation Advising

Chair for two candidates who successfully defended their studies and graduated in May 2003.

Committee Member for one candidate who graduated in 2003, and two who completed in 2004, and two other candidates from Temple University in the 1970's.

Currently the Chair of four studies including a candidate ready to defend in November.