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Michael C. Hynes, Ph.D.

CURRICULUM VITA

CONTACT INFORMATION

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<p>EDUCATION, PROFESSIONAL POSITIONS, ACADEMIC INTERESTS, AND AWARDS</p>

Education:

Ph.D. Curriculum & Instruction
Kent State University, Kent, Ohio
1971

M.Ed. Mathematics Education
Kent State University, Kent, Ohio
1968

B.S. Biological Sciences Education
Ohio State University
Columbus, Ohio
1963

Attended Kenyon College
Gambier, Ohio
1959-1961

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Employment History

2009-present	Co-Director, School of Teaching, Learning and Leadership, College of Education, UCF
2008-2010	Chair, Department of Teaching and Learning Principles, College of Education, UCF
2004- 2006	Coordinator of C&I Advanced Graduate Programs
1999-2001	Coordinator of the Ph.D. in Curriculum and Instruction
1997-2004	Associate Dean for Graduate Studies and Research, College of Education
1995-1997	Assistant Dean, College of Education University of Central Florida
1995	Florida Statewide Mathematics Coordinator National Science Foundation
1992-2006	Lockheed Martin Eminent Scholar Chair for Mathematics and Science Education
1992-2006	Director, Lockheed Martin/UCF Academy for Mathematics and Science, University of Central Florida
1992-1995	Director, Center for Education Research and Development, University of Central Florida
1986-1992	Associate Director, Center for Education Research and Development, University of Central Florida
1988-1990	Coordinator, Curriculum & Instruction Doctoral Program, College of Education, University of Central Florida
1986-2006	College Coordinator of Research College of Education, University of Central Florida

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1981-1998	Professor, Graduate Faculty of Education University of Florida
1978-Present	Professor, College of Education University of Central Florida
1975-1978	Associate Professor, College of Education University of Central Florida
1971-1975	Assistant Professor, College of Education University of Central Florida
1968-1971	Instructor, University Laboratory School Kent State University
1963-1968	Teacher, Akron, Ohio Public Schools

Areas of Special Academic Interest

Mathematics Education K-12, Mathematics Teacher Education K-12, Integration of Mathematics and Science Teaching and Learning, Use of Simulation in Teacher Education, Program Evaluation in Mathematics and Science Education, Enhancement of Learning through Technology, Diagnostic and Prescriptive Teaching of Mathematics

Awards and Honors Earned in Recognition of Excellence

Professor Emeritus, University of Central Florida, 2007

Pegasus Professor, Dr. Hynes was selected in 2005 as the eighth Pegasus Professor at the University of Central Florida in recognition of a career that has contributed to the university and to the profession of education. The Pegasus Professor is the highest honor that UCF bestows upon faculty at the university.

Christa McAuliffe Award, American Association of State Colleges and Universities, Lockheed Martin Academy for Mathematics and Science, 2004

Post-secondary Education Policy Commission, Exemplary Program Award, Lockheed Martin Academy for Mathematics and Science, 1995.

UCF Teaching Incentive Award, 1995.

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University of Central Florida, College of Education Excellence in Research Award, 1993.

University of Central Florida, University Researcher of the Year Award, 1993.

Lockheed Martin Academy for Mathematics and Science Eminent Scholar Chair,
University of Central Florida. 1992

National Council of Teachers of Mathematics, Service Award for Editing Arithmetic
Teacher and serving on the Editorial Panel for three years, 1992.

University of Central Florida, College of Education Excellence in Research Award, 1991.

University of Central Florida, College of Education Excellence in Teaching Award, 1985.

Florida Council of Teachers of Mathematics, Service Award for ten years service as co-editor
of Dimensions in Mathematics, 1983.

Seminole County Council of Teachers of Mathematics, Meritorious Award, 1982.

University of Central Florida, College of Education Excellence in Research Award, 1982.

School Science and Mathematics Association, Service Award for five years as editor of the
SSMA Newsletter, 1982.

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UNIVERSITY DEVELOPMENT

Dr. Hynes has brought over \$3,000,000 in gifts to the university in his career to support the mathematics and science education programs.

Dr. Hynes is the founding Director of the Lockheed Martin/UCF Academy for Mathematics and Science. This is an endowed program in the College of Education designed to prepare teachers in elementary schools and middle schools to become curriculum leaders in mathematics and science. Dr. Hynes has the Eminent Scholar chair created by the Lockheed martin endowment.

Original endowment from Martin Marietta:	\$1,005,000
Matching Funds, SUS:	<u>\$ 753,000</u>
Total:	\$1,758,000

In 2004, the TOYOTA USA Foundation awarded Dr. Hynes a \$270,000 gift to initiate a program that assists professionals who want to enter the teaching profession to teach mathematics and science in middle schools. This program is called Transition into Mathematics and Science Teaching program. (TMAST).

The Lockheed Martin Corporation, Lockheed Missiles and Fire Control and Lockheed Information Systems have pledged a \$600,000 endowment gift for the TMAST program. The giving period for this endowment is 2004 – 2010. It will be matched by the state of Florida with \$400,000.

In 2006, a scholarship fund was established with the UCF Foundation in Dr. Hynes' name. In 2007, Tabula Digita, a technology company, made a \$10,000 contribution to this fund.

CONTRACTS AND GRANTS

Dr. Hynes has been the leader of the research efforts in the College of Education since 1986 when he became the Director of the Center for Education Research and Development. He has maintained that responsibility as Assistant Dean and Associate Dean. Office of Research records show that from the 1994-1995 academic year to the 2003-2004 academic year, the annual external funding increased from just under \$2,400,000 to a high level of over \$16,000,000. In the academic year, the College of Education has received over \$16,400,000 in funding. Over the ten-year period of Dr. Hynes' leadership, the College of Education has received over \$100,000,000 in external funding.

As a faculty researcher, Dr. Hynes has been very active. He has been awarded over \$5,000,000 in research grants from many sources. He has been funded by the National Science Foundation on several occasions and the U.S. Office of Research once. The state of Florida has awarded Dr. Hynes

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many grants to pursue his research interests.

NASA'S Exploration Team (NEET) Education Resource Center, Addendum for native American workshop NASA, 2009, amount Funded \$25,000, PI, Co-PI's M. Romjue and B. Jeanpierre

NASA'S Exploration Team (NEET) Education Resource Center, PSTI NASA, 2009, amount Funded \$70,000, PI, Co-PI's M. Romjue and B. Jeanpierre

NASA'S Exploration Team (NEET) Education Resource Center, Addendum for ERC Professional Development NASA, 2009, amount Funded \$24,500, PI, Co-PI's M. Romjue and B. Jeanpierre

NASA'S Exploration Team (NEET) Education Resource Center, NASA, 2009, amount Funded \$448,000, PI, Co-PI's M. Romjue and B. Jeanpierre, Research ID: 1049947

STAR Simulator, A Virtual Classroom for Preparing Urban Teachers in Classroom Management Phase I, An SBIR grant to Simiosys, LLC., Christopher Stapleton, CEO. Amount funded, \$100,000. Co-PI with multiple faculty members from UCF.

A Geometry Study of the Ability of Student's to Create Proofs, Multi-University Research in Mathematics and Science Institute, Florida State University, 2004. Amount funded, \$3000.00 (with L. Subramanian)

Center for advanced transportation systems simulation (UCF-CATSS) & K-12 perspectives, Department of Civil Engineering, College of Engineering, University of Central Florida, Co-Principal Investigator (\$3,000, July, 2005).(with B. Swan)

A Longitudinal Study of a Teacher Enhancement Project, ROA Supplement, National Science Foundation, 2003. Amount funded: \$35,000

Bridging Engineering and Education in Central Florida Research Experiences for Teachers, National Science Foundation, 2003, Amount funded: \$10,000 (with L. Morse).

Bridging Engineering and Education in Central Florida Research Experiences for Undergraduates, National Science Foundation, 2003, Amount funded: \$5,000 (with L. Morse).

Bridging Engineering and Education in Central Florida, National Science Foundation, 2002, Amount Funded: \$65,000 (with L. Morse).

FACTE Website Development. Florida Association of Colleges of Teacher Education, 2000, Amount funded: \$5000.

On-Line Tutor, Pilot Project. On Location Education, 2000. Amount funded: \$16,000.

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A Longitudinal Study of a Teacher Enhancement Project. National Science Foundation, 1998, Amount funded: \$969,082.

Higher Education Consortium, Region III. Florida Institute of Technology. 1998 Amount funded: \$50,000

Higher Education Consortium, Region III. Florida Institute of Technology. 1997 Amount funded: \$50,000

Florida Collaborative for Excellence in Teacher Preparation, National Science Foundation, 1996. Amount funded \$998,729 (with FAMU, multiple Co-PI's).

Globe Summer Workshop, NASA/Space Grant Consortium, 1996. Amount funded \$20,000 (with R. Everett).

Globe Spring Workshop, NASA/Space Grant Consortium, 1996. Amount funded \$20,000 (with R. Everett).

Higher Education Consortium, Region III. Florida Institute of Technology. 1995 Amount funded: \$50,000

Florida NSF Mathematics State Coordinator. Florida Department of Education. 1995 Amount funded, \$159,640.

Algebra Program Evaluation, Dwight D. Eisenhower Fund, Title II, 1995. Amendment I, 1995: Amount funded \$2,100.

Algebra Program Evaluation, Dwight D. Eisenhower Fund, Title II, 1994. Amount funded \$61,800. Amendment I, 1995: Amount funded \$2,100.

East Central Florida Virtual Center, Florida State Systemic Project (A Subcontract: NSF), 1994. Amount funded \$29,000.

Middle School Mathematics Program Evaluation, Dwight D. Eisenhower Fund, Title II, 1993. Amount funded \$63,000.

Psychometrics of Performance Assessment. U.S Office of Research, 1993. Amount funded: \$5000

A Business Partnership for Math and Science, National Science Foundation, 1992-1995.; Amount funded \$875,000.

Performance Item and Portfolio Assessment in Mathematics and Science, Dwight D. Eisenhower,

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Title II, 1992-1993. Amount funded \$52,000 (with R. Everett).

K-5 Mathematics Program Evaluation, Dwight D. Eisenhower Fund, Title II, 1992. Amount funded \$60,000.

Pedestrian Safety, Florida Department of Transportation, 1992. Amount funded \$60,000. (with J. Maunez)

Grove Counseling Center: Program Evaluation, Grove Counseling Center, 1991-1992. Amount funded \$5,700. (with C. Dziuban)

Alternative Assessment in Mathematics, Dwight D. Eisenhower Fund, Title II, 1990-1991.; Amount funded \$43,500.

Experimental Classroom of the Future, Florida High Technology Council, 1989. Amount funded \$120,000 (with K. Williams).

Developmental of a Protocol for Evaluating Computer-Based Learning Systems, Economic Security Act, Title II, 1989. Amount funded \$15,000 (with C. Dziuban).

Alternative Assessment in Mathematics, Economic Security Act, Title II, 1989-1990. Amount funded \$75,000.

CATT, Phase III, Florida Department of Education, 1988. Amount funded \$192,500.

CATT, Phase IV, Florida Department of Education, 1988. Amount funded \$67,250.

CATT, Phase V, Florida Department of Education, 1988. Amount funded \$250,000.

CATT, Phase VI, Florida Department of Education, 1988. Amount funded \$24,000.

CATT, Phase VII, Florida Department of Education, 1988. Amount funded \$18,000.

Model Teacher Education Program: Computer Science, Economic Security Act, Title II, 1988. Amount funded \$25,000.

CATT, Phase II, Florida Department of Education, 1987. Amount requested \$295,000; Amount funded \$295,000.

Content Area Teacher Tests, Florida Department of Education, 1986-1987. Amount funded \$359,000.

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Microcomputer Applications Grant, Instructional Resources, 1982. Amount funded \$2,300.

Florida Metric Resource Center, Florida Department of Education, 1980. Amount funded \$4,000.

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DEVELOPMENT OF ACADEMIC PROGRAMS

Dr. Hynes has led the development of new graduate programs as Assistant Dean and Associate Dean, and continued to lead these efforts as a faculty member. Under his leadership programs have been developed at the doctoral, master's and certificate levels.

Most recently, Dr. Hynes assisted Dr. Bobby Jeanpierre in the preparation of a proposal for the Science Education Trak in the Ph.D. in Education. At this point this proposal is awaiting approval with the Graduate Council of UCF.

Dr. Hynes created a unique version of the Master of Arts program in mathematics education and science education for working professionals in science, technology, engineering and mathematics known as Transition to Mathematics and Science Teaching (TMAST). This program has received funding from three foundation sources including an start-up funding from the TOYOTA Foundation, an endowment from Lockheed Martin, and student support dollars from the Boeing Corporation. Over 20 students are presently enrolled in the program.

At the doctoral level, Dr. Hynes wrote the proposal for the Ph.D. in Curriculum and Instruction, and he coordinated the program until the program was transformed into the present Ph.D. in Education program. Dr. Hynes was instrumental in making this transformation and designing the proposal to make a comprehensive Ph.D. program with tracks for academic areas within the college.

Dr. Hynes wrote the proposal for the K-8 Mathematics and Science Master of Education program, the Middle School Mathematics Track in the mathematics Education Master of Arts, and the Middle School Science Track for the Science Education Master of Arts. Also, he has supported the development of the M.A. and M.Ed. in Curriculum and Instruction, the M.A. in Exercise Physiology, and many revisions of masters programs.

The K-8 Mathematics and Science Program is a National Prominence program for the College of Education. In the benchmarking process, it was learned that this program is rather unique in the country as only two true matches were found for the benchmarking process. Subsequently, the program has been recognized by the American Association of State Colleges and Universities as a program with Excellence in Teacher Education, Teacher Education Programs that Make a Difference.

The College has developed 14 Certificate Programs under the leadership of Dr. Hynes.

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PUBLICATIONS

Books, Monographs, and Other Professional Publications:

“Mathematics Games in the Classroom,” in Playing Games in School: Video Games and Simulations for Elementary and Secondary Education. Edited by Hirumi, A. , Eugene, Oregon, ISTE, 2010 with M. Krebitichi,

Vmath, 1st Edition, Grade 2 (2009) is an intervention mathematics program for grades 2-8 that was first published in summer 2005. Grade 2 was added in 2009. Dr. Hynes is the Chief Advisor for this program for Voyager Expanded Learning. The research for this series of books has been ongoing since 2001.

Vmath, 2nd Edition (2009) is an intervention mathematics program for grades 3-8 that was first published in summer 2005. Dr. Hynes is the Chief Advisor for this program for Voyager Expanded Learning. The research for this series of books has been ongoing since 2001.

Vmath for grades K-2 is being prepared for publication in spring 2007. Dr. Hynes is the Chief Advisor for this program for Voyager Expanded Learning. The research for this series of books has been ongoing for the past six years.

Vmath is an intervention mathematics program for grades 3-8 that was published in summer 2005. Dr. Hynes is the Chief Advisor for this program for Voyager Expanded Learning. The research for this series of books has been ongoing since 2001.

Mission Mathematics II: Grades 6-8, NCTM: Reston, VA, with J. Dixon, 2005.

Do You Know How To Apply the New Assessment Standards in Your Mathematics Classroom? Optical Data Corporation, 1998, with B. Anderson and P. Lawrence.

Mission Mathematics: Linking Aerospace and the NCTM Standards 6-8, NCTM: Reston, VA, 1997, editor.

Mission Mathematics: Linking Aerospace and the NCTM Standards, Project Director for this NASA/NCTM project., 1997. Three book series

"Using Technology to Enhance Communication in Mathematics," Communication in Mathematics, a Chapter in a Yearbook of NCTM, 1995, (with A. Barron).

IDEAS from the Arithmetic Teacher, K-4, National Council of Teachers of Mathematics. A monograph of NCTM, 1993.

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Mathematics Plus: A Basal Series. Orlando, Florida: Harcourt, Brace, and Jovanovich, 1993 (Editing Consultant).

Pedestrian Awareness (video tape), 1992. A product of a Florida Department of Transportation grant (with J. Maunez and J. Hall).

Pedestrian Awareness Teacher's Guide, 1992. A product of a Florida Department of Transportation grant (with J. Maunez and J. Hall).

Arithmetic Teacher: Teaching Mathematics Through the Middle Grades, February 1992. Editor of this Focus Issue related to alternative assessment (with P. Elliot).

LAUNCHBOX, 1991. A 14-part series of Nickelodeon 30 minute television programs for "Cable in the Classroom" co-sponsored by the Astronaut Memorial Foundation, Nickelodeon, and NASA," Chair of the Educators' Writing Team. (Note: As of 12/31/92 six (6) of the episodes have been aired, 3 more have been written, and 5 others remain to be written.)

Mathematics Plus: A Basal Series. Orlando, Florida: Harcourt, Brace, and Jovanovich, 1991 (Consultant).

Alternative Assessment in Mathematics (video tape), 1991. A product of a Dwight D. Eisenhower grant.

Alternative Assessment in Mathematics: Handbook for Workshop Leaders (Part 2), 1991. A product of a Dwight D. Eisenhower grant.

Alternative Assessment in Mathematics: Handbook for Workshop Leaders (Part 1), 1990. A product of a Dwight D. Eisenhower grant.

Mathematics Unlimited: A Basal Series (revised). New York: Holt, Rinehard, and Winston, 1989. Senior Consultant and Member of Author Team.

A Paradigm for Transition: A Model Program for Florida Teachers in Computer Science Education. A monograph product of a Department of Education Grant, 1989.

"Selection Criteria." Contributor to Exemplary Practice Series: Mathematics, Bloomington, Indiana: Phi Delta Kappan, 275-279, 1987.

Mathematics Unlimited: A Basal Series, New York, New York: Holt, Rinehard, and Winston, 1987. Senior Consultant and Member of Author Team.

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"The Little Red Computer in 2011: A Scenario." Computers in Curriculum and Instruction, T. Grady and J. Gawronski, eds. Alexandria, Virginia: Association for Supervision and Curriculum Development, 163-170, 1983 (with N. McGee).

Microcomputers in Education: Course Lectures and Materials. Orlando, Florida: College of Education, University of Central Florida, 1983 (with J.R. Baird).

Motivation: Concentration Papers from the 60th Annual Meeting of NCTM. Reston, Virginia: National Council of Teachers of Mathematics, 1982. Editor of the Monograph.

Topics Related to Diagnosis in Mathematics for Classroom Teachers, 1979. Editor.

An Annotated Bibliography of Periodical Articles Relating to the Diagnostic and Prescriptive Instruction of Mathematics, Kent, Ohio: Research Council for Diagnostic and Prescriptive Mathematics, 1979.

Issues for Consideration by Mathematics Educators, 1979. Editor.

Clinical Investigations in Mathematics Education, 1978. Editor.

A Handbook of Mathematics Activities, 5-12. Nyack, New York.: Parker Publishing, 1976 (with D. Brumbaugh).

An Individualized Laboratory Program for the Metric System: Students' Modules. Oviedo, Florida: Kent Educational Services, 1974 (with W. Esler).

An Individual Laboratory Program for the Metric System: Teacher's Modules. Oviedo, Florida: Kent Educational Services, 1973 (with W. Esler).

A Sourcebook of Activities for Elementary School Teachers: Mathematics. Austin, Texas: Texan House, 1973 (with M. Kysilka and D. Brumbaugh).

Independent Study Activities for Elementary Mathematics Education. Oviedo, Florida: NEATUM Co., 1972 (with D. Brumbaugh and M. Kysilka).

Technical Reports

International Space Station, National Laboratory Education Plan, Concept Development Report, National Aeronautic and Space Administration, Contributing member of writing team, 2007

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Center for Advanced Transportation Systems Simulation (CATSS) & K-12 Perspectives. Final Report. Orlando, FL: University of Central Florida, Department of Civil Engineering. Hynes, M. & Swan, B. A., September, 2005

A Geometry Study of the Ability of Student's to Create Proofs, Final Report, Multi-University Research in Mathematics and Science Institute, Florida State University,. Hynes, M. and Subramanian, L., July, 2004

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Final Report. National Science Foundation, 2004.

Bridging Engineering and Education in Florida, National Science Foundation, Annual Report, 2003

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 2003

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A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 2002.

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 2001.

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 2000.

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 1999.

A Longitudinal Evaluation of the Lockheed Martin Academy for Mathematics and Science, Annual Report. National Science Foundation, 1998.

K-12 Mathematics Program Evaluation: A Florida Model Curriculum Project. K-12 Algebraic Thinking Performance Items. A monograph product of a Dwight D. Eisenhower grant project, University of Central Florida, 1996.

9-12 Mathematics Program Evaluation: A Florida Model Curriculum Project. High School Mathematics School Handbook with Algebraic Thinking Performance Items for Algebra I and Higher. A monograph product of a Dwight D. Eisenhower grant project, University of Central Florida, 1996.

Model Technology School Evaluation Report: Mainland High School.1995, with W. Bozeman and C. Dziuban

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Middle School Mathematics Program Evaluation: A Florida Model Curriculum Project. A monograph product of a Dwight D. Eisenhower grant project, University of Central Florida, 1994.

K-5 Mathematics Program Evaluation: A Florida Model Curriculum Project. A monograph product of a Dwight D. Eisenhower grant project, University of Central Florida, 1993.

Experimental Technology Classroom: Demonstration Prototype Research report, 1991 With T. Carolyn, P. Moskal, and K. Williams.

Real Estate Appraisers Examination Item Bank, Florida Real Estate Commission, 1990 (with C. Dziuban).

An Evaluation Protocol for Computer Based Integrated Learning Systems: A Report. A monograph product of a Florida Department of Education Grant, 1989 (with C. Dziuban).

Computer Science 9-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Political Science 6-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Economics 9-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Geography 6-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Sociology 6-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Psychology 6-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Social Studies 6-12 Teacher Certification Test Item Bank, Florida Department of Education, 1988.

Social Studies 5-9 Teacher Certification Test Item Bank, Florida Department of

Professional Journal Articles

“Teacher and school factors influencing teacher effectiveness: A multilevel technique to predict student achievement through a value-added model.” *International Education Journal* (IEJ). With Subedi, B. R. and Swan, B. A. (accepted).

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"Predicting student gains with hierarchical models: A value-added approach to measure teacher effectiveness." *Educational Research and Evaluation*. With Subedi, B. R., Swan, B. A. (under review)

"Implications of Mixed Reality and Simulation Technologies on Special Education and Teacher preparation," *Focus on Exception Children*. Volume 40, Number 5, January 2009, with L. Dieker, C. Hughes, and E. Smith

"Virtual Classrooms: STAR Simulator Building Virtual Environments for Teacher Training in Effective Classroom Management." *New Learning Technology SALT*, 4, 1-22, 2007 with Dieker, L., Stapleton, C., & Hughes, C. (2007).

"Assessing Mathematics Learning for Students with Learning Differences," *Delta-K, Journal of the Mathematics Council of the Alberta Teacher's Association.*, 1997 with L. Cross.

"Teaching/Learning/Leading: Synonyms for Change," *Action in Teacher Education*, Fall 1997, Vol. XIX, No. 3, with J. Johnson.

"Does a Standard Reflect Minimal Competency of Examinees or Judge Competency?," *Applied Measurement in Education*, 1996, with L. Chang, C. Dziuban, and A. Olson.

"An Assessment of the Effect of Vocational Exploration on Career Decision Making," *Journal of Employment Counseling*, 31(3), 115-126, September 1994, with C. Dziuban and R. Tango.

"Assessing Mathematics Learning for Students with Learning Differences," *Arithmetic Teacher: Mathematics Through the Middle Grades*, 41(7), 371-377, March 1994, with Lee Cross (national, peer review).

"From the File: Flip Over Magic," *Arithmetic Teacher: Mathematics Through the Middle Grades*, 38(8), 43, April 1991, with M. E. Hynes (national, peer review).

"The Evolution of a Teacher Certification Test in Computer Science," *Journal of Computing in Teacher Education*, 7(1), 24, Fall 1990, with C. Dziuban (national, peer review).

"A Model Program for Computer Science Education for Florida Teachers," *Florida Educational Computing Quarterly*, 1(2), Winter 1989, with J. Lemon and C. Dziuban (regional, peer review).

"A Model Program for Computer Science Education for Florida Teachers: A Paradigm for Transition," *Florida Educational Computing Quarterly*, 1(4), Summer 1989, with J. Lemon and C. Dziuban (regional, peer review).

"Use of Boxplots in Validity Studies," *Psychology Reports*, 62, 536-538, 1988, with C.

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Dziuban (national, peer review).

"Magic Squares: How Many Patterns?" Dimensions in Mathematics, 8(2), 22-24, 1988, with M. E. Hynes (state, peer review).

"Principles for Principals," Arithmetic Teacher, 36(1), 37-39, September 1988 (national, peer review).

"Capture-Recapture," School Science and Mathematics, 87(4), April 1987 (national, peer review).

"Selection Criteria," Arithmetic Teachers, 33(60), 111-113, February 1986, (national, peer review).

"Pascal in the Classroom," Dimensions in Mathematics, 4(2), 13, Winter-Spring 1984, (state, peer review).

"Pascal in the Classroom," Dimensions in Mathematics, 4(3), 40-42, Summer 1984, with B. Baird (state, peer review).

"Pascal in the Classroom," Dimensions in Mathematics, 3(4), 96, Summer 1983 (state, peer review).

"Multiplication of Fractional Numbers...An Array Approach," The Illinois Mathematics Teacher, 33(2), 21-27, March 1982 (state, peer review).

"Math Lab Activity: Smile Contest...?" School Science and Mathematics, 81, 620-623, November 1981, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Mary Mary Quite Contrary, How Does...?" School Science and Mathematics, 81, 436-437, May-June 1981, with D. Brumbaugh (national, peer review).

"Math Lab Activity: From Memphis to Mobile," School Science and Mathematics, 81, 349-350, April 1981, with D. Brumbaugh (national, peer review).

Math Lab Activity: Percent Computer," School Science and Mathematics, 81, 267-268, March 1981, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Crack Under the Door," School Science and Mathematics, 81, 267-268, March 1981, with D. Brumbaugh (national, peer review)

"Math Lab Activity: Slotcar Racing," School Science and Mathematics, 81, 79-80, January

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1981, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Plan 'Em," School Science and Mathematics, 80, 706-708, December 1980, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Line Up," School Science and Mathematics, 80, 533-534, October 1980, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Triangular Numbers," School Science and Mathematics, 80, 429-440, May-June 1980, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Youthful Construction," School Science and Mathematics, 80, 357-358, April 1980, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Who Has a Wilson 3?," School Science and Mathematics, 80, 257-258, March 1980, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Higher-Lower," School Science and Mathematics, 80, 170-172, February 1980, by H. Gerber, edited by M. Hynes and D. Brumbaugh (national, peer review).

"Math Lab Activity: Gasoline Shortage," School Science and Mathematics, 80, 81-82, January 1980, with D. Brumbaugh (national, peer review).

"Research Council for Diagnostic and Prescriptive Mathematics," School Science and Mathematics, 79, 631, November 1979 (national, peer review).

"Math Lab Activity: Classroom Photography," School Science and Mathematics, 79, 440-443, May-June 1979, R. C Bird, edited by M. Hynes and D. Brumbaugh (national, peer review).

"Math Lab Activity: Price Comparison Computer," School Science and Mathematics, 79, 349-351, April 1979, M. T. Grade, edited by M. Hynes and D. Brumbaugh (national, peer review).

"Math Lab Activity: Orville Who?," School Science and Mathematics, 79, 255-256, March 1979, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Speedometer Check," School Science and Mathematics, 79, 166-167, February 1979, with D. Brumbaugh (national, peer review).

"Math Lab Activity: Massaging Dressage," School Science and Mathematics, 79, 77-78, January 1979, with D. Brumbaugh (national, peer review).

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"Math Lab Activities: Tickets, Please," School Science and Mathematics, 78, 710-711, December 1978, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Live to a Billion," School Science and Mathematics, 78, 618-619, November 1978, with D. Brumbaugh (national, peer review).

"Math Lab Activities: The Wedge," School Science and Mathematics, 78, 523-524, October 1978, with D. Brumbaugh (national, peer review).

"Florida Metric Resource Center Operational Since 1974," Metric Bulletin, 5(9), 19-22, July 1978, With D. Brumbaugh (national, peer review).

"Math Lab Activities: It's Your Heal," School Science and Mathematics, 78, 441-442, May-June 1978, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Median Strip," School Science and Mathematics, 78, 168-169, February 1978, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Really Level," School Science and Mathematics, 78, 79-80, January 1978, with D. Brumbaugh (national, peer review).

An Alternative Model for Diagnosis--A Reaction," Remedial Mathematics: Diagnostic and Prescriptive Approaches, Higgins, J. M., and Heddens, J. (Eds.), Kent, Ohio: Kent State University, 1977. ERIC Document Services, No. 251 m.

"Math Lab Activities: A Teaching Film," School Science and Mathematics, 77, 711-712, December 1977, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Paper Airplane," School Science and Mathematics, 77, 615-616, November 1977, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Worm Farm," School Science and Mathematics, 77, 615-616, November 1977, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Tesselquilt," School Science and Mathematics, 77, 441-442, May-June 1977, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Hole-in-One," School Science and Mathematics, 77, 348-349, April 1977, with D. Brumbaugh (national, peer review).

"Math Lab Activities: LCM, Let's Completely Match," School Science and Mathematics, 77, 261-262, March 1977, with D. Brumbaugh (national, peer review).

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"Math Lab Activities: Oh, My Aching Feet," School Science and Mathematics, 76, 713-714, December 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Color Wheel," School Science and Mathematics, 76, 525-526, October 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: No Chocolate Mess," School Science and Mathematics, 76, 361-362, April 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Cubes in Egg Cartons," School Science and Mathematics, 76, 361-362, April 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Goodnight Mama, Goodnight Elizabeth," School Science and Mathematics, 76, 219-260, March 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: 'Puzzl'em," School Science and Mathematics, 76, 168-190, February 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Soccer Style," School Science and Mathematics, 76, 80-81, January 1976, with D. Brumbaugh (national, peer review).

"Math Lab Activities: GEOMO," School Science and Mathematics, 75, 650-652, November 1975, with D. Brumbaugh (national, peer review).

"Math Lab Activities: What Club?," School Science and Mathematics, 75, 650-652, November 1975, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Mean, Median, Mode," School Science and Mathematics, 75, 561-562, October 1975, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Pick a Winner," School Science and Mathematics, 75, 379-380, April 1975, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Kite Pulling Contest," School Science and Mathematics, 75, 291-292, March 1975, with D. Brumbaugh (national, peer review).

"Math Lab Activities: The Big C," School Science and Mathematics, 75, 291-292, March 1975, with D. Brumbaugh (national, peer review).

Competency-Based Instruction, Is It Worth It? ERIC Document # ED088828, 1974.

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"Math Lab Activities: Top Speed of a Ten Speed," School Science and Mathematics, 74, 723-724, December 1974, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Draggin' On," School Science and Mathematics, 74, 627-628, November 1974, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Tobaggon Run," School Science and Mathematics, 74, 541-542, October 1974, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Bicycle Gymkana," School Science and Mathematics, 74, 341-342, April 1974, with D. Brumbaugh (national, peer review).

"Math Lab Activities: Speed Trap," School Science and Mathematics, 74, 157-158, February 1974, with D. Brumbaugh (national, peer review).

"Math Lab Activities: The Street Value of Tobacco," School Science and Mathematics, 74, 75-76, January 1974, with D. Brumbaugh (national, peer review).

"Mathematics Laboratories: What Does Research Say?," Educational Leadership, 31, 271-275, 1973, with D. Brumbaugh and M. Kysilka (national, peer review).

Transformational Geometry K-12," The Ohio Council of Teachers of Mathematics Newsletter, March 1970 (state, peer review).

"Division of Fractional Numbers," The Arithmetic Teacher, February 1969, 99-103, with J. W. Heddens (national, peer review).

"Teaching the Mathematically Disadvantaged--11-15 Year Olds," Proceedings of the Premier Congress De L'Enseignement Mathématique, Lyons, France, 88-90, 1969 (international, peer review).

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PROFESSIONAL PRESENTATIONS

Subedi, B., Swan, B., & Hynes, M. (May, 2010). "Are School Factors Important for Measuring Teacher Effectiveness? A Multilevel Technique to Predict Student Gains Through a Value-Added Model," A Paper presented at the 2010 AERA Annual Meeting.

Chopra, M., Seal, S., Hynes, M., Fiore, S., Hughes, C. (April, 2010) "Benefits and Challenges of Collaborative Research Proposals," Collaborative Research Opportunities Workshop, University of Central Florida, Orlando, Florida

Subedi, B., Swan, B., & Hynes, M. (November, 2009). Teacher and school factors influencing teacher effectiveness: A multilevel technique to predict student achievement through a value-added model. Paper presented at the 54th Annual Meeting of the Florida Educational Research Association (FERA). Orlando, FL.

Hynes, M. and Dieker, L. (October 2009). The Future of Virtual Environments in Teacher Preparation. Paper presented at the Annual Meeting of School Science and Mathematics (SSMA), Reno, NV.

Hynes, M. (October 2009). Preparing Teachers for the 1 Million+ K-12 On-line Students. Annual Meeting of the Florida Association of Teacher Educators (FATE), Daytona Beach, FL.

Hynes, M. and Zajac, J. (October 2009). Remote Observation in Student Teaching Supervision. Annual Meeting of the Florida Association of Teacher Educators (FATE), Daytona Beach, FL.

Subedi, B. R., Swan, B., & Hynes, M. (April 2009). Predicting student gains with hierarchical models: A value-added approach to measure teacher effectiveness. of American Educational Research Association (AERA), San Diego, CA.

Dieker, L., Hynes, M., Hughes, C., and Smith, E. (January 2009). TeachME. A Pre-session for the Annual Meeting of Association of Mathematics Teacher Educators (AMTE), Orlando, Florida

Dieker, L., Hynes, M., Hughes, C., and Smith, E. (March 2009). TeachME. Annual Meeting of Association of Curriculum and Supervision Development (ASCD), Orlando, Florida

Hynes, M. (April 2008) Accelerating Students to Grade Level in Mathematics. Annual Meeting of the National Council of Teachers of Mathematics (NCTM), Salt Lake City, UT

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Dieker, L. and Hynes, M.C. (April 2007). Virtual Classroom for Behavior Management in Middle School. Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM). Atlanta, GA.

Swan, B. A. & Hynes, M. (November, 2006). Understanding factors affecting the middle school mathematics teacher-labor market. Paper presented at the annual meeting of the Florida Educational Research Association (FERA). Jacksonville, FL.

“Alternate pathways to teaching mathematics: What is the role of teacher education programs?” Paper presented at the Annual Meeting of the [Association of Mathematics Teacher Educators](#) (AMTE). Tampa, FL. With Lewis, N. & Swan, B. A., 2006.

“Understanding factors affecting the middle school mathematics teacher-labor market.” Paper presented at the Annual Meeting of the [Florida Educational Research Association](#) (FERA). Jacksonville, FL. Swan, B. A. & Hynes, M. , 2006.

“What works for some: Extra time + direct instruction = Success,” paper presented at the Annual Meeting of the [Florida Council of Teachers of Mathematics](#) (FCTM). 2006.

“Moving Beyond Measurement: Integrating Mathematics and Science. Association of Mathematics Teacher Educators. Dallas, TX.,2005, With Lewis, N.

“The Legacy of Christa McAuliffe: Recognizing the Importance of Student Academic Achievement in Teacher Education Programs,” The Fifteenth Education Trust National Conference, Washington, D.C., 2004

“Evaluation of the Lockheed Martin Academy for Mathematics and Science,” CREATE-Colorado Springs, 2004

Linking Graduate Programs with Public School Student Performance,” Association of Mathematics Teacher Educators, Annual Meeting, San Diego, 2004, With Lewis, N.

“Linking Graduate Programs with Public School Student Performance,” School Science and Mathematics Association National Conference, Columbus, OH, 2003, with Lewis, N.

“Locating and benchmarking integrated mathematics and sciences Masters’ Degrees.” School Science and Mathematics Association, Annual Meeting, 2003. with Dixon, J. K. & Lewis, N..

“Motivating math with Mission Math II.” National Council of Teachers of Mathematics, Annual Meeting. 2003. with Dixon, J.K.

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“Tracking the Performance of Staff Development Participants,” National Council of Teachers of Mathematics National Conference Research Pre-session, San Antonio, TX, 2003, with Lewis, N. & Lowry, K..

“Connecting Student Performance Through Professional Development,” National Evaluation Institute, Louisville, KY, 2003 with Lewis, N., Strebel, C. & Lowry, K..

“Systemic Reform in Education and Systemic Evaluation,” American Evaluation Association National Conference, Washington, DC, 2002, with Lewis, N. & Strebel, C.
“The Lockheed Martin/UCF Academy as a Systemic Initiative,” National Evaluation Institute, Boise, ID, 2002, with Lewis, N., Moskal, P., Silas, L., & Hoffman, E.

“NASA and NCTM’s New Mission Mathematics and Principles and Standards,” National Council of Teacher’s of Mathematics, Annual Meeting, 2002 with J.K. Dixon

“Are Master’s Degree Holders Better Teachers?” Florida Council of Teachers of Mathematics, 2001. with Silas, L., Woolridge, M. and Hoffman, E..

“A Panel Discussion: Issues Investigated During the Evaluation of a Teacher Enhancement Program,” National Evaluation Institute, 2001, with Moskal, P., Daniels, D., Lewis, N., Strebel, , Schumde M. & Silas, L..

“Examining 8 Years of Data from a Teacher Enhancement Program,” School Science and Mathematics, Annual Meeting, 2001.

“Focus Group Results: Part of a Longitudinal Evaluation of the Lockheed Martin/UCF Academy for Mathematics and Science, American Evaluation Association Annual Meeting, 2000, with D.Daniels, J. Johnson, C. Strebel, P. Moskal, N. Lewis & M. Schumde.

“A Longitudinal Evaluation of the Lockheed Martin/UCF Academy for Mathematics and Science: Process, Results, and Lessons Learned After Year One,” National Evaluation Institute, 2000, with P. Moskal, D. Daniels, N. Lewis, M. Schumde and G. Sitter.

“Expanding the Sphere of Learning: The Florida Collaborative for Excellence in Teacher Preparation,” National Science Teachers Association, Annual Meeting, 2000, with P. Gilmer.

“Inquiry into Action: The ‘good work’ in Science Education,” National Association of Research in Science Teaching, 2000, with J. Johnson.

“Activities that Link the NCTM Standards to Topics in Aerospace,” National Council of Teachers of Mathematics Annual Meeting, 1999, with H. Buckridge.

“Evaluating Graduate Programs: A Discussion,” National Evaluation Institute, 1999 with C.

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Strebel.

“A Longitudinal Evaluation of a Teacher Enhancement Program,” National Evaluation Institute, 1999, with C. Strebel.

“Activities for Your Class that Link the Aerospace and the NCTM Standards,” National Council of Teachers of Mathematics, Southern Regional Conference, 1999.

“Activities That Link the NCTM Standards to Topics in Aerospace,” Florida Council of Teachers of Mathematics, Annual Meeting, 1998.

“Development of Items for Assessing Algebra Skills,” National Council of Teachers of Mathematics, Southern Regional Conference, March 1998, Tampa, FL

“Assessing the Sunshine State Standards,” Florida Council of Teachers of Mathematics, Annual Meeting, 1996 with S. Berger

“Assessing Algebraic Thinking,” Florida Council of Teachers of Mathematics, Annual Meeting, 1996

"NASA's Educational Program," National Council of Supervisors of Mathematics Annual Meeting, 1995, with F. Owens.

"Sample Open-Ended Items, A Rubric, and Some Student Responses," National Council of Teachers of Mathematics Annual Meeting, 1995, with M. E. Hynes.

"K-5 Mathematics Program Evaluation: The Role of Student Outcomes," National Council of Teachers of Mathematics Richmond Meeting, 1994.

"Using Generalizability Theory to Assess Measurement Errors of Angoff Cutting Score and Mean Rater Actual Score," American Education Research Association, 1994, with L. Chang, C. Dziuban, and A. Olsen.

"Authentic Assessment of K-5 Mathematics Program," National Council of Supervisors of Mathematics Annual Meeting, 1994.

"Using Performance Items to Link Instruction and Assessment in Mathematics Teaching," National Council of Teachers of Mathematics Annual Meeting, 1994.

"Rubrics and Extended Response Items: The Answer to School Improvement," Florida Council of Teachers of Mathematics Annual Conference, 1994.

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"Teachers and Research: Partnership for Reform," American Association of Higher Education. Fifth National Conference on School/College Collaboration, Washington, D.C., November 1994, with J. Johnson, J. Black, and D. Foulkes.

"A Study of the Factors Used by Judges to Establish Passing Scores for Teacher Certification Tests in Mathematics and Other Areas," Research Council for Diagnostic and Prescriptive Mathematics, 1993. with C. Dziuban.

"Reform in the K-12 Mathematics Curriculum," National Council of Supervisors of Mathematics Annual Meeting, 1993.

"The Martin Marietta Academy for Mathematics and Science Program," The International Society for Optical Engineers Annual Meeting, 1993.

"The Martin Marietta Academy for Mathematics and Science Program," Partners in Education Conference: Making 2000 Work, 1993.

"Developing Mathematics Leadership at the School Level," The Martin Marietta Academy for Mathematics and Science Program, National Council of Teachers of Mathematics, New York Meeting, 1993.

"The Martin Marietta Academy for Mathematics and Science Program," The Elementary Curriculum Conference, Orange County Schools, 1993.

"Alternative Assessment in Mathematics," Florida Council of Mathematics, Leadership Conference, 1993.

"How to Respond to Blueprint 2000 at the K-5 Level," Florida Council of Teachers of Mathematics Annual Meeting, 1993.

"Developing Performance Items for Higher Order Thinking in Middle School Math," National Council of Teachers of Mathematics, Durango Meeting, 1993.

"Implementing Alternative Assessment: Sense and Nonsense," Florida Education Research Association, 1993 (discussant).

"A Partnership for LAUNCHBOX," National Science Teachers Association Annual Meeting, 1992, with R. Everett.

"Every Teacher is a Math Leader: Let the Arithmetic Teacher Help," National Council of Teachers of Mathematics Annual Meeting, 1992, with the AT Panel members.

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"Curriculum and Instruction Forum," National Council of Supervisors of Mathematics Annual Meeting, 1992, with the AT Panel members.

"Children's Literature that Teaches Math," International Reading Association Annual Meeting, 1992, with M. Hopkins, and S. LaPoint.

"Alternative Assessment in Mathematics," Eisenhower Symposium, Tampa, Florida, 1992. A Poster Session.

"Empowering Teachers Through Alternative Assessment," National Council of Teachers of Mathematics Meeting, Columbus, Ohio, 1992.

"Empowering Teachers Through Alternative Assessment," Florida Council of Teachers of Mathematics Annual Meeting, 1992.

"Development of Leadership in Elementary and Middle Schools," Florida Association of Science Teachers Annual Meeting, 1992, with R. Everett and J. Armstrong.

"A Study of Factors Used by Judges to Establish Passing Scores for Teacher Certification Tests in Mathematics and Other Areas," Research Council for Diagnostic and Prescriptive Mathematics Annual Meeting, 1992, with D. Dziuban.

"Using the Arithmetic Teacher," National Council of Teachers of Mathematics Annual Meeting, 1991, with the AT Panel members.

"Alternative Assessment in Mathematics," Eisenhower Symposium, Tampa, Florida, 1991. A Poster Session.

"Forum on Exemplary Programs," National Council of Supervisors of Mathematics Annual Meeting, 1991, Chair and Moderator of Forum.

"Geometric Supposer," State Software Acquisition Workshop, Orlando, Florida, May 1991.

"Alternative Methods of Assessment," APEI Annual Luncheon, Tampa, Florida, May 1991.

"Martin Marietta/UCF Academy for Mathematics and Science," Florida Council of Supervisor of Mathematics Annual Meeting, 1991.

"Alternative Assessment Techniques in Mathematics Class," National Council of Teachers of Mathematics Baltimore Meeting, November 1991.

"An Analysis of the Relationship of Test Performance and Angoff Scores for a Wide Variety

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of Subject Areas," Florida Education Research Association Annual Meeting, 1991, with C. Dziuban.

"Alternative Techniques for Assessment for Mathematics Instruction in Grade K-8," National Council of Teachers of Mathematics South Bend Conference, March 1991.

"Business Partner for Innovative Teacher Enhancement," Second Annual Eisenhower Leadership Symposium, Tampa, Florida, March 1991.

"Alternative Assessment Strategies for Mathematics Grades 4-6," Phi Delta Kappa Leadership Institute, Orlando, Florida, March 1991.

"Essential Teacher Competencies," Teacher Education Initiative Seminar, Bethune Cookman College, February 1991.

"Using the Arithmetic Teacher as a Resource to Meet the Challenge of the NCTM Standards," National Council of Teachers of Mathematics Annual Meeting, 1990, with the AT Panel members.

"Alternative Techniques for Assessment of Mathematics Learning," Florida Council of Teachers of Mathematics Annual Conference, October 1990, with M. E. Hynes.

"An Investigation of the Relationship Between Reported Brain Dominance and Performance on Academic Achievement Tests," Research Council for Diagnostic and Prescriptive Mathematics Annual Meeting, February 1989, with C. Dziuban and D. Mealor.

"State Teacher Tests - Mathematics," Central Florida Section of the Mathematics Association of America, January 1989, with D. Brumbaugh.

"An Assessment of the Effect of Intervention on Career Indecision," Florida Education Research Association Annual Meeting, November 1988, with C. Dziuban, R. Tango and J. R. Baird.

"Calculator Decimal Division," Florida Council of Teachers of Mathematics Annual Meeting, October 1988.

"Learning About More Than 1/2," California Mathematics Council Annual Meeting, October 1988.

"Visual Memory: Right-Brained or Left-Brained Activity?," RCDPM Annual Meeting. New Orleans, Louisiana, February 1988, with M. Fox and C. Dziuban.

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"AP Pascal: Developments and Issues," Florida Instructional Computing Conference, Orlando, January 1988, with J. Baird.

"Progress Toward Certification in Computer Science in Florida," Florida Instructional Computing Conference, Orlando, January 1988.

"Visual Discrimination: The Overlooked Problem Solving Strategy," NCTM, Halifax, Nova Scotia, Canada, 1987.

"Developing Subject Area Tests for Florida Teachers: Process, Progress, Prognosis," Florida Education Research Association Annual Meeting, August 1987 (panel member).

"Preparing Prospective Elementary Teachers for State Certification Exams," Annual Meeting of the National Council of Teachers of Mathematics, Anaheim, California, April 1987.

"Competencies for Teachers of Computer Science," Florida Instructional Computing Conference, Orlando, Florida, February 1987.

"Problem Solving Software," University of Central Florida, Department of Computer Science Seminar, Orlando, Florida, 1986.

"Math Contest," Department of Education, Western Maryland College, Westminster, Maryland, October 1986.

"Research: Teacher Education," Research Council for Diagnostic and Prescriptive Mathematics, University of Maryland, College Park, Maryland, March 1986.

"Teaching AP Pascal - An Ongoing Discussion," Florida Instructional Computing Conference, Orlando, Florida, January 1986.

"Using Text Analysis Software in Teaching English," Florida Instructional Computing Conference, Orlando, Florida, January 1986.

"Pascal and Advanced Placement Computer Science, A Discussion," Annual Meeting of the National Council of Teachers of Mathematics, San Antonio, Texas, April 1985.

"Coping with Pascal: A Discussion, Part III," Orlando, Florida, February 1985.

"Using Data Bases in English Instruction," Florida Instructional Computing Conference, Orlando, Florida, January 1985.

"Problem Solving with Computers," Annual Meeting of the Florida Council of Teachers of

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Mathematics, Fort Lauderdale, Florida, October 1984, with B. Baird.

"The Creation and Proposed Validation of a Diagnostic Mathematics Test for Grades 1-6," Annual Meeting of the Research Council for Diagnostic and Prescriptive Mathematics, San Francisco, California, April 1984, with F. Fennell, J. Scheer, and W. Speer.

"How to Score 700 on the SAT," Annual Meeting of the National Council of Teachers of Mathematics, San Francisco, California, April 1984, with M. E. Hynes.

"English Teachers and Microcomputers," Florida Instructional Computing Conference, Orlando, Florida, February 1984, with N. McGee.

"Coping with Pascal: A Discussion, Part II," Florida Instructional Conference, Orlando, Florida, January 1984, with B. Baird and S. O'Brien.

"Microcomputer Hardware: The Medium is the Message," New Technologies and Lifelong Learning Conference, Orlando, Florida, October 1983.

Toastmaster at the Annual Luncheon. Annual Meeting of the Florida Council of Teachers of Mathematics, Jacksonville, Florida, October 1983.

"Coping with Apple Pascal: A Discussion, Part II," Florida Instructional Computing Conference, Tampa, Florida, March 1983.

"Logo in 9th Grade Geometry," Summer Instructional Computing Conference, Orlando, Florida, July 1982.

"Research Report - Long Division," National Council of Teachers of Mathematics, Lexington, Kentucky, September 1981.

"Diagnosing Learning Disabled Children with Key Math," Research Council for Diagnostic and Prescriptive Mathematics, Annual Meeting, Hershey, Pennsylvania, April 1981.

"Multiplication of Fractions with Manipulatives," National Council of Teachers of Mathematics, Annual Meeting, Washington, D.C., April 1981.

"I Can Do My Guzintas," National Council of Teachers of Mathematics Annual Meeting, Seattle, Washington, 1980, with M. E. Hynes (national).

"Active Activities for Active Ages," National Council of Teachers of Mathematics, Annual Meeting, Seattle, Washington, 1980, with D. Brumbaugh (national).

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"Action Metrics," National Science Teachers Association, Orlando, Florida, 1980 (national).

"Diagnosis with Piagetian Protocols," North Carolina Council of Teachers of Mathematics, Charlotte, North Carolina, 1980, with M. E. Hynes (state).

"Measurement for Young Children," North Carolina Council of Teachers of Mathematics, Charlotte, North Carolina, 1980, with M. E. Hynes (state).

"Multiplication of Fractional Numbers...An Array Approach," North Carolina Council of Teachers of Mathematics, Charlotte, North Carolina, 1980, with M. E. Hynes (state).

"Making Division of Rational Numbers Rational," National Council of Teachers of Mathematics, Nashville, Tennessee, 1979, with M. E. Hynes (regional).

"Using Manipulative Aids to Model Algorithms in Remedial Situations," Sixth National Conference: Research Council for Diagnostic And Prescriptive Mathematics, Tampa, Florida, 1979 (national, peer review).

"Metrication and the Public School's Responsibility," Association of Teacher Educators, Annual Meeting, Orlando, Florida, 1979 (national).

"Modeling Computational Algorithms," National Council of Teachers of Mathematics Annual Meeting, Boston, Massachusetts, 1979 (national).

"Diagnosis with Piagetian Protocols," Florida Council of Teachers of Mathematics Annual Meeting, Cocoa Beach, Florida, 1979 (state).

"Role-Playing in Teaching Mathematics," Annual Meeting of the Alabama Council of Teachers of Mathematics, Birmingham, Alabama, 1978, invited address with D. Brumbaugh (state).

"The Remediation of Math Errors with Learning Disabled Students," Annual Convention of the Council for Exceptional Children, Miami Beach, Florida, 1978, with J. Midgett, A. Sofge and M. E. Hynes (state, peer review).

"Photography as a Motivational Technique for Basic Skills," Annual Meeting of the Florida Council of Teachers of Mathematics, Daytona Beach, Florida, 1978, with R. Bird; two sessions (state).

"Metrics That Work with Kids," Biloxi Name-of-Site Meeting of the National Council of Teachers of Mathematics, Biloxi, Mississippi, 1978, with D. Brumbaugh (regional).

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"Categorizing Remediation Techniques for Mathematics Instruction," Fifth Annual Conference on Remedial Mathematics, Phoenix, Arizona, 1978, with J. Midgett and A. Sofge (national).

"Action Metrics," Mobile Name-of-Site Meeting of the National Council of Teachers of Mathematics, Mobile, Alabama, 1977 (regional).

"Role Playing in Teaching Mathematics," Annual Meeting of the Florida Council of Teachers of Mathematics, St. Petersburg, Florida, 1977, with D. Brumbaugh (state).

"Action Metrics," Annual Meeting of the National Council of Teachers of Mathematics, Cincinnati, Ohio, 1977 (national).

"Using Manipulative Aids to Model Algorithms in Remedial Situations," Fourth Conference on Remedial Mathematics, University of Maryland, College Park, Maryland, 1977 (national).

"Role-Playing in Teaching Mathematics," St. John's Name-of-Site Meeting of the National Council of Teachers of Mathematics, St. John's, Newfoundland, 1977, with D. Brumbaugh (international).

"Action Metrics," St. John's Name-of-Site Meeting of the National Council of Teachers of Mathematics, St. John's, Newfoundland, 1977, with M. E. Hynes (international).

"Metrics in Florida," Florida Department of Education Early Childhood Conference, Orlando, Florida, 1976, with D. Brumbaugh (state).

"Role Playing in Mathematics," Florida Department of Education Early Childhood Conference, Orlando, Florida, 1976, with D. Brumbaugh (state).

"Action Metrics," Detroit Name of Site Meeting of the National Council of Teachers of Mathematics, Detroit, Michigan, 1976; two presentations (regional).

"Using Key Math as a Mathematics Diagnostic Tool," Annual Conference on Diagnosis and Remediation of Mathematical Difficulties, Kent, Ohio, 1976, invited address (national).

"Activities for Teaching the Metric System to Children," paper presented to the Canton Meeting of the National Council of Teachers of Mathematics, Canton, Ohio, 1975.

"Metric Olympics," paper presented to the Annual Membership Meeting of the Orange County Council of Teachers of Mathematics, Orlando, Florida, 1975.

"Metric Games for the Classroom," paper presented to the Annual Meeting of the Florida

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Council of Teachers of Mathematics, Miami, Florida, 1975.

"Individualized Instruction in the Metric System," Florida Association of Science Teachers Annual Meeting, Orlando, Florida, 1975, with W. Esler (state).

"Response Mode and Diagnostic Procedures: Needed Research," Third National Conference on Remedial Mathematics, Kent State University, Kent, Ohio, 1975, invited address (national).

"Metric Activities for the Elementary Schools," paper presented to the Annual Meeting of the Florida Council of Teachers of Mathematics, Tampa, Florida, 1974.

"An Alternate Model for Diagnosis - A Reaction," paper presented to the First Annual National Conference on Diagnosis and Remediation of Mathematical Difficulties, Kent, Ohio, 1974.

"Competency Based - Is It Worth It?" paper presented to the Annual Meeting of the American Educational Research Association, Chicago, Illinois, 1974.

"Manipulative Aids for Mathematics Instruction in the Elementary School," paper presented at the Annual Meeting of the Florida Conference of Adventist Teachers, Orlando, Florida, 1973.

"Transformational Geometry in the Elementary School," paper presented to Ohio Council of Teachers of Mathematics Annual Meeting, Canton, Ohio, 1970.

"Teaching the Mathematically Disadvantaged 11-15 Year Olds," paper presented at the First Congress International De L'Enseignement Mathématique, Lyons, France, 1969.

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PROFESSIONAL MEMBERSHIPS AND LEADERSHIP ACTIVITIES

In the 2004-2005 Academic year, Dr. Hynes plays a role in the governance of many professional organizations in his discipline. He is the director of a joint project of the National Council of Teachers of Mathematics (NCTM) and the National Aeronautics and Space Administration (NASA). Recently, he was appointed by NCTM and NASA as a consultant to the NASA Task Force for the NASA International space Station (ISS) National Laboratory Educational Plan. He has served on an advisory board for the American Association of State Colleges and Universities (AASCU) to consider the issue of accountability in teacher education. Dr. Hynes was a member of the Board of Directors of the Consortium for Research Accountability and Teacher Evaluation (CREATE). He serves as Chair of the Nominations and Elections Committee for the NCTM, and the Awards Committee of School Science and Mathematics Association (SSMA)

Research Council for Diagnostic and Prescriptive Mathematics (1973-)

Founding Member
Treasurer (1985-1987)
Annual Meeting Program Committee (1986)
Vice-President for Dissemination (1977-1981)
Board of Directors (1977-1981)
Executive Committee (1977-1981)
Conference Committee (1977-1981)
Publications Committee (1977-1981)

Florida Council of Teachers of Mathematics (1972-)

Chair of Student Assessment Committee (1993-)
Chair, Assessment Committee (1991)
Chair, Curriculum Committee (1989-1991)
Conference Liaison (1986-1987; 1989-1992)
Ad Hoc Legislative Committee (1984-1986)
Past President (1985)
Chair, Nomination Committee (1985)
President (1984)
President-Elect (1983)
Board of Directors (1973-1987)
Program Committee for Annual Meetings (1976, 1980, 1981)
Chair of Publications Committee (1973-1982)
Co-Editor of Journal (1973-1982; 1995-)

Seminole County Teachers of Mathematics (Life Member)

Orange County Teachers of Mathematics (1977-)

Board of Directors (1979-1981)

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College Liaison (1979-1981)

National Council of Teachers of Mathematics (1969-)

Elections Committee (2004-7); Chair (2006-7)
Project Director, Mission Mathematics (1994-2005)
Department Editor, "Teaching with Technology," Arithmetic Teacher (1992-1994)
Arithmetic Teacher Editorial Panel (1989-1992)
NCATE Folio Review Team (1992)
Referee: Mathematics Teacher (1988-)
Referee: Arithmetic Teacher (1985-)
Reader Advisor Panel: Arithmetic Teacher (1985)
FCTM Representative to Delegate Assembly (1984)
Program Committee, 1982 Annual Meeting, Toronto
Program Chairman, 1980 Annual Meeting, Orlando
Newsletter Chairman, 1979 Annual Meeting, Orlando

National Aeronautics and Space Administration

Project Director, Mission Mathematics I
Project Director, Mission Mathematics II
Consultant: Task Force on NASA International Space Station (ISS) National
Laboratory Education Plan

School Science and Mathematics (1971-)

Local Planning Committee, Annual convention, 2010
Awards Committee (2000-2005)
Editor of SSMArt. Newsletter of SSMA (1982-1986)
Board of Directors (1982-1986)

National Council of Supervisors of Mathematics (1976-)

Awards Committee (1998 – 2002)
Chair, Curriculum and Instruction Committee (1991-1995)
Task Force Chairperson (1989-1991)

Florida Blueprint 2000: Goal 2 Committee

Committee Member (1994)

Florida Mathematics Framework Project

Writing Committee Member (1993-4)

Higher Education Consortium

Meeting Chair, May 1994, Orlando
Steering Committee Member (1993-1997)

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Meeting Chair, December 1993, Orlando

Region III SSI Advisory Committee

UCF Representative (1993-1996)

Consortium for Research on Educational Accountability and Teacher Evaluation

Board of Directors (2002-)

Orlando Science Center

Member of the Education Advisory Committee (1992-1995)

Astronauts Memorial Foundation

Member of the Education Advisory Committee (1991- 1994)

UNIVERSITY SERVICE

University Committees:

Research Committee
Personnel Committee
Strategic Planning Council
Graduate Council
Undergraduate Curriculum Committee
Space Education Research Center Advisory Board
Travel Committee

Inter-college Committees:

Mathematics Education Advising Committee
College of Education Advising Committee

Community Service:

Education Summit Planning Committee (2004)
Education Summit Metrics Subcommittee (2004)
Education Summit Best Practices Subcommittee (2004)
Blueprint for Education: Orange County Public Schools (2004-2005)
Lockheed Martin/UCF Academy for Mathematics and Science Advisory Board
(1992-present)
Florida Institute of Education Advisory Board (1997-1999)
Orlando Science Center Education Committee (1996)

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Astronaut's Memorial Foundation Education Committee (1992-1994)
Seminole County Public Schools Middle School Strategic Planning Committee (1994)
Goldsboro Elementary Mathematics/Service Magnet School Advising Committee (1999-)
Osceola County Public Schools Staff Development Advising Committee (1992-1998)
Region III, Area Center of Education Enhancement Advising Committee (1994-2000)
Space Coast Mathematics/Service Advising Committee (1994-1998)

DOCTORAL DISSERTATIONS SUPERVISED
--

Landry, Shawntel Delcambre (2009) Degrees of Alignment Among K-12 Mathematics Content Standards of Instruction: An Analysis of High-Performing and Low Performing Data Sets (Texas Christian University)

Farmer, Lisa Epps (2008). A Study of an Attempt to Improve the Reliability of Teacher's Holistic Scores of elementary Writing through In-house Training. (S. Wegmann, Co-chair)

Swan, Bonnie A. (2006). Middle School Mathematics Teacher Preparation and Experience and the Effects on in a Large Urban district (J.K. Dixon, Co-chair)

Subramanian, L. (2005). High schools geometry students' understanding of and ability to write geometry proofs: Effectiveness of dynamic geometry software. (J.K. Dixon, Co-chair)

Woolridge, Mary (2003). Teacher Degree Levels: The Impact on Student Achievement in Mathematics on High-Stakes Tests.

Viega-Hedrick, Maria (2001). An Analysis of Motivation and Achievement in the Algebra I Classroom Utilizing the Cane Model of Cognitive Motivation.

White, Jacelyn A. (1998). A Study of the Effects of Computer-Assisted Algebra Instruction on Attitude Towards Mathematics and Computers, Student Success Rate, and Success for Different Personality Styles.

Woodward, Deborah R. (1998). The Effects on School Experience on Juvenile Delinquency: A Case Study.

McGowin, Carol Williams (1996). The Effectiveness of Training In-service Teachers on Performance Items Assessing Using a Holistic Rubric.

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Kerr, K. H. (1996). Change through Alternative Assessment: Improving Student Performance.

Overbay, V. E. (1996). Implementation of the Multicultural Act of 1992 by Social Studies Teachers.

Prejean, A. (1996). A Study of the Effects of Action Research on Elementary School Teachers' Beliefs.

Mir Franqui, C. J. (1992). Satisfaction Level of Dietitians in Puerto Rico Related to the Use of Counseling Skills and Strategies to Improve Patient Compliance.

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