

## DETAILED VITA – JUNE 2015

### BIOGRAPHICAL INFORMATION

<b>Education</b>	Ed.D. Educational Technology (minor, computer science), Lehigh University, 1993 (advisor Dr. Leroy J. Tuscher; studied under University Professors Zirkel, Nagel, and Campbell) M.S. Educational Technology, Lehigh University, 1983 B.A. Elementary Education/Secondary Biology, Goddard College, 1972 Electrical Engineering, Lehigh University, 1965-'68
<b>Employment</b>	Professor of Practice of TLT, Lehigh University College of Education, 2012 to present Assistant Professor, Wilkes University School of Education, 2010 - 2011 Adjunct Professor, Lehigh University College of Education, 1984, '85, '88 - 2011 Adjunct Faculty, Graduate School of Education, Wilkes University, 1997 - 2009 Dir. of Professional Development, Ctr. for Advancing Partnerships in Educ. 2004-2008 Coordinator of Information & Communication Technology, BASD, 2000-2004 Coordinator of District Networking, Bethlehem Area School District, 1994-2000 Secondary Computer Specialist, Bethlehem Area School District, 1992-1994 Elementary Computer Resource Teacher, East Penn School District, 1990-1992 Mathematics Specialist, Chapter I/TELLS, East Penn School District, 1989-1990 Elementary teacher (4th & 5th grades), East Penn School District, 1972-1989 Adjunct Faculty, Allentown College (now DeSales University), 1991, '96 Research Scientist, Lehigh University, Summer, 1988, '89 Visiting Instructor, Lehigh Univ., Summer, 1987 Instructor, RACC & Berks Co. I.U. High School for Gifted/Talented, Summer, 1985, '86 Master Teacher, Educational Technology, Lehigh Univ. Summer Gifted Prog., 1984-'86 Teaching Assistant, Lehigh Univ., Manufacturing Systems Engineering, 1984-'85 Research Assistant, Lehigh Univ., Burroughs Educ. Computer Network Proj., 1984-'85 Teacher Intern Supervisor, Lehigh U. School of Educ. 1983-'84 (elem. & secondary). Teacher/consultant, Carbon-Lehigh I.U. #21, 1983-'84 Instructor, Lehigh County Community College, 1982-'83

### COURSES TAUGHT

<b>Specific Courses Taught (partial list)</b>	<i>Special Topics: Assistive Technology</i> , TLT462, Lehigh University, 2015SP <i>Assessment of Instructional Technology</i> , TLT476, Lehigh University, 2015SP <i>Special Topics: Trends &amp; Innovations in Instructional Technology</i> , TLT462, LU, '14FL <i>Special Topics: Designing Effective Distance Education</i> , TLT462, Lehigh, '14SU <i>Technology for Teaching &amp; Learning</i> , TLT470, Lehigh U., 2012SP/2014SU <i>Applied Instructional Interface Design Principles</i> , TLT454, Lehigh U., 2014SP <i>Instructional Design &amp; Development Studio</i> , TLT456, Lehigh University, 2013FL <i>Intro. to Multimedia Programming &amp; Resource Development</i> , TLT458, LU, '13FL-'14FL <i>Overview of Teaching &amp; Learning</i> , TLT401, Lehigh University, 2013FL <i>Internship in Teaching, Learning &amp; Technology</i> , EDUC493, Lehigh Univ., 2013FL <i>Special Topics: Game Design for Learning</i> , TLT462, Lehigh University, 2013SU <i>Adv. Multimedia Programming &amp; Resource Devel.</i> , TLT460, LU, '13SP, '14SP, '15SP <i>Instructional Design</i> , TLT403, Lehigh University, 2013SP, 2013FL <i>Planning to Implement Technology in School/District Settings</i> , TLT471, LU, 2012FL <i>Technology in School Settings</i> , TLT450, Lehigh University, 2012FL <i>Tools for Teaching and Learning</i> , TLT406, Lehigh University, 2012FL <i>Instructional Design for K-12 Classrooms</i> , TLT407, Lehigh Univ., 12SU, 13SP, 14FL <i>Large-Scale Planning/Implementation of Educ. Technology</i> , TLT474, LU, 2012SU
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*Designing Learning Environments*, LST403, Lehigh University, 2012SP  
*Website & Resource Development for Learning*, TLT 458, Lehigh Univ, '12SP  
*Cognition and Learning*, ED632, Wilkes/Oman, Spring, 2012  
*Trends/Innovations in Instruc. Technology*, designer/instructor, ED5012, Wilkes, 2010  
*Teaching in 3D Virtual Classroom Environments*, designer/instructor, ED5010, Wilkes U., 2010  
*Technology in School Settings*, TLT 450, Lehigh Univ., 2009, '10, '11  
*Cognition and Technology*, designer & instructor, EDIM501, Wilkes/Discovery, 2009, '11  
*Social & Ethical Issues in Online Educ.*, designer/instructor, ED5001, Wilkes, 2009, '11  
*Adaptive & Adapted Technology in Educ.*, ED646, Wilkes Univ, 2009, '10  
*Information Security*, ED638, Wilkes Univ., 2009, '10, '11  
*Integrating Technology into the Classroom*, TLT 470, Lehigh U., 2009, '10, '11, '12  
*Systems Design & Analysis*, ED637, Wilkes U., 2009, '10  
*Media Design*, ED 633, Wilkes U., 2009, 2010  
*Planning Implementation of Technology in Schools*, TLT 471, Lehigh U, '03, '06-'10  
*Digital Video and Instruction*, ED642, Wilkes U., summer, 2008  
*Distance Learning and ePedagogy*, ED630, Wilkes U., 2008  
*Trends & Innovations in Instructional Technology*, ED643, Wilkes U., 2008, '09, '10, '11  
*Budgeting, Managing, Evaluating School Technology*, EdT 474, Lehigh U, 2007, '09, '10  
*Operating Systems & Networking*, Ed 588, Wilkes University, 2004  
*Technology Leadership*, Ed 587, Wilkes University, 2003  
*Research Topics in Educational Technology: Web-Based Instructional Strategies*, EdT 477, Lehigh University, 2001  
*Web-Based Learning Environments*, EdT, Lehigh University, 1998  
*Cognition (for Educators)*, Ed. 515-OA, Wilkes Univ., 1997 - 1998  
*Desktop Publishing (for Educators)*, ED. 528-OA, Wilkes Univ., 1998  
*Design and Application of Educational Networks*, Educ. 492-10, Lehigh Univ., 1996  
*Electronic Publishing Applications in Education*, Educ. 492-13, Lehigh Univ., 1988-1999  
*Robots in the Classroom*, Educ. 492-11, Lehigh Univ., 1987  
*Introduction to Artificial Intelligence*, RACC & Berks Co. I.U. High School for Gifted/Talented, Summer, '86  
*Introduction to Robotics*, RACC & Berks Co. I.U. High School for Gifted/Talented, Summer, 1985, '86  
*Computer Applications in School Administration*, AdmS 412, Lehigh Univ., Spring, Summer, Fall, 1984; Summer, '85

## PUBLICATIONS, PRESENTATIONS, GRANTS & other CREATIVE WORKS

### Selected Publications (including published software)

Garrigan, S. R., Bressler, D, Vallera, F., Bostwick, L., Haddush, N., Heintzelman, S., Smith, K., Hewatt., C., and Hsu, A., (2014). "Can Class Compete Improve Student Achievement? A white paper." Garrigan Consulting.  
 Garrigan, S. R., (2013 ). "Concept mapping in graduate education, in *Digital Knowledge Maps in Education: Technology-enhanced support for teachers and learners*. Ifenthaler, D and Hanewald, R., eds., Springer.  
*MentalEdge* Website, <http://mentaledge.us>. 2013-present  
*MentalArcade* Website, <http://mentalarcade.com>. 2008-present  
 "Interactive Simulations to Develop Higher Level Science and Math Skills," *One-to-One*, AALF Journal, Vol. 7:4, March, 2011  
 CAPE Professional Development Website, 2004-2008  
 "Wireless Webcasting, QuickTime Streaming, and More!: Apple Wireless and Video Technologies in the Bethlehem Area Schl. Dist.," *Imagine/Ed Tech News*, Apr., 2000  
 "Technology Support for Standards," PRISE Video Series: Becoming Standards Based, BASD & AcerraGroup, Jan, 2000  
 BEN:LINCS — A Community Model for the Pennsylvania Education Network, Proceedings of the National Educational Computing Conf., Atlantic City, June, 1999

*A Comparison of Intrinsic Motivation Elicited in Children by Physical Robots vs. Simulated Robots (Softbots)*, Doctoral Dissertation, Lehigh University, 1993  
*Converting Existing Text Documents to HyperText*, ADCIS '89 nat'l conf. Proc., 1989  
 "Anthropomorphic Robots," with Dr. Roger Nagel in *The Encyclopedia of Artificial Intelligence*, John Wiley, 1987  
 "Technology of Future Manufacturing," in *Toward a New Era in U.S. Manufacturing: The Need for a National Vision*, National Academy Press, Washington, 1986.  
 "The Logo→PostScript Connection," *LOGO 86 Conf. Proceedings*, MIT, Boston, 1986  
 "Logo, Robots and Motivation," *LOGO 86 Conf. Proceedings*, MIT, Boston, 1986  
 Columnist for *Home and School Computer News*, 1986  
*ROBOT SOFTWARE: Current State of the Art and Future Challenges*, (with Dr. Roger N. Nagel) NATO Advisory Group for Aerospace Research & Development (AGARD) Lecture Series No. 142; Trondheim, The Hague, & Lisbon, 1985  
 "Extending Logo's Power and Utility Using Machine Language," (with Dr. Francis A. Harvey) *LOGO 85 Conf. Proceedings*, MIT, Boston, 1985  
 Team leader/designer of single and multi-user educational software on the Burroughs Advanced Instructional Microcomputer Network, Lehigh Univ., 1984-'85  
*HELPTURTLE*, Little Red School Disk, 1984 (author/programmer of educational software with international distribution)  
 Designer/programmer of 10 quiz/game modules for *MAINSTREAMING* interactive video series, PA Dept. of Education, 1984

**Conference Presentations (presented & accepted partial list)**

*Make Technology Meaningful: Level Up to Transformative Technology for the Classroom*, ISTE Conference, Philadelphia, June, 2015  
*Teaching Four Core Technologies Thru Project-Based Learning in a Single Course* (a full-day workshop), Philadelphia, June 2015  
*Project-Based Learning Transforms Allentown Middle Schools*, Bridges Conference, Cape May, NJ, May, 2015  
*The Education Conundrum (Revisited)*, Saucon Valley Chamber of Commerce, Lehigh Valley, PA., Feb 24, 2015  
*Creating Science Apps With and For K-12 Students*, ISTE Verizon Innovative Learning Schools Virtual Conference, ISTE (online), Feb 10, 2015  
*Secrets of Great Online Course Design, Shhh!* (with Angela Greco), PETE&C Conference, Hershey, PA. Feb 9, 2015  
*Pick the Right Game-Builder for Your School*, PETE&C Conf., Hershey, PA, Feb 9, 2015  
*Take Control of Your Learning: Develop a Learning Lifemap*, Lehigh Symposium, Lehigh University, August 22, 2014  
 Keynote Address: *Personal Mobile Technology Changes Everything*, Mobile Learning Summit, Lehigh University, October 18, 2014  
*Six Ways Teachers and Students Can Make a Mobile iPad/Android App*, Mobile Learning Summit, Lehigh University, October 18, 2014  
*The Education Conundrum: Why Education is Stuck and What We Can Do About It*, TEDx@LehighU, Lehigh University, October 15, 2014  
*Explore the Potential of Game-Based Learning*, Lehigh University Mountain Talks (Webinar, highest attendance record set!), Feb 26, 2014  
*Step-by-step Design for Effective and Engaging K-12 MOOCs*, 3-hr workshop, ISTE Conference, Atlanta, June 2014  
*Six Ways Teachers and Students can Make Mobile iOS & Android Apps*, ISTE Conference, Atlanta, June 2014  
*What Can Educators Learn from MOOCs and Learning Games*, (invited panelist) SIGOL Ignite presentation, ISTE Conference, Atlanta, June 2014  
*How higher education online MOOC courses can help us build better K-12 online learning*, Bridges Conference, Cape May, NJ, May, 2014  
*The MOOC Revolution has Started for K-12 Kids*, PETE&C Conference, Hershey, PA, Feb 2014

*MOOCs and Secondary Students: 3 approaches* (with student Michael Fouchet), PETE&C Conference, Hershey, PA, Feb 2014

*Videogame-Based Learning: Perspectives in Africa* (with student Aubain Adi), PETE&C Conference, Hershey, PA, Feb 2014

*New Frontiers of Learning*, TEDxLehigh, November 12, 2013

*High Stakes Technology Decisions to Change the Way Your Students Learn* (moderator and panelist/presenter), School Study Council, Lehigh University, October, 2013

*SIGOL Forum: Connect, collaborate, and create with a MOOC!* (invited panelist), ISTE Conference, San Antonio, 2013

*How Will the MOOC Explosion Impact K-12 Schools & Students*, ISTE Conference, San Antonio, 2013

*Augmented Reality: Student-created AR fascinates and engages kids & parents*, ISTE Conference, San Antonio, 2013

*Create Six Kinds of Augmented Reality Activities in Six Hours* (full-day workshop), ISTE Conference, San Antonio, 2013

*Project-Based Grad Class Pushes Tech's Limits* (with Raj Reed, Farah Vallera, Duane Wallace & Ben Hammel), PETE&C Conference, Hershey, PA, Feb 2013

*When the MOOC Revolution Comes to K-12 Kids*, PETE&C Conference, Hershey, PA, Feb 2013

*Explore Augmented Reality with Mobile Apps* (with Megan Stotz & Rob Marsteller), PETE&C Conference, Hershey, PA, Feb 2013

*Design and Build an Educational Computer Game*, full-day workshop, ISTE Conf, Philadelphia, PA, June 2011

*Mediacasting Live & OnDemand: Pod, screen, webcast*, full-day workshop, PETE&C Conference, Hershey, PA, Feb 2011

*How Educational Technology Leaders Keep Their Edge*, PETE&C Conf, Feb 2011

*Open Textbooks, Curriculum, Content in Schools Now*, PETE&C Conf, Feb 2011

*Graduate Students Contribute Innovative Resources* (w/ Bestwick, Covey & Carlucci), PETE&C Conf., Feb 2011

*Free and Low-Cost STEM Software*, STEM Education Conference, Luzerne County Community College, Dec 2010

*Creative STEM Education: Your passport to the future*, Sustainable Energy Conference, Lehigh University, Bethlehem, PA, July 2010

*Hands-On Mediacasting: Learn live and on-demand webcasting, podcasting, and screencasting*, half-day workshop, Denver, CO, ISTE Conference, June 2010

*Copyright and the Internet: an era of change*, Tech for Teaching, Kings College, May '10

*Open Source/Open Content: Can high quality be free?* Kings College, May 2010

*Factors of Success in U.S. and International One-to-One Projects*, PA One-to-One Conf, Penn State, Apr 2010

*Pennsylvania Laptops in 2015: A futurists's look at 5 years of anticipated/probable change*, PA One-to-One Conf, Penn State, Apr 2010

*Radical Sustainability: One-to-one in a reduced-budget environment*, PA One-to-One Conf, Penn State, Apr 2010

*Garrigan's Law: Redefining students as producers vs. consumers* (discussion facilitator), PA One-to-One Conf, Penn State, Apr 2010

*Hands-On Mediacasting: Learn live and on-demand webcasting, podcasting, and screencasting*, full-day workshop, Washington, DC, NECC Conf, June '09

*Increasing Higher-Level Task Engagement Using Technology*, PA One-to-One Conf, Penn State, Apr 2009

*Integrating Creativity and Innovation into Core Subject Areas (using technology)*, PA One-to-One Conf, Penn State, Apr 2009

*After Blackboard & Moodle: Build an unforgettable online course*, full-day workshop, PETE&C Conference, Hershey, PA, Feb 2009

*Sustaining Innovation with Diminished Funding*, PETE&C, Hershey, PA, Feb. 2009

*Writing Successful Technology and Education Grants*, PETE&C, Hershey, PA, Feb '09

*Blendedschools.net Language Institute: An inside look*, with Evon Zundel and Jed Friedrichsen, blendedschools.net Conference, State College, PA, Oct. 2008

*A Hands-On Introduction to the Best Open-Source Classroom Software*, full-day workshop, San Antonio, TX, NECC '08 (June)

*Hands-On with Great Technology Tools for the 21<sup>st</sup> Century Learner*, full-day workshop, San Antonio, TX, NECC '08 (June)

*Sustaining & Extending CFF with Open Source Software and Open Content*, PA One-to-One Conference, State College, PA, April, 2008

*XO Hardware & Software Demo: live & in person!* PA One-to-One, Penn State, Apr 2008

*Hard Science and Math with Soft(ware) Tools*, PA One-to-One Conf, Penn State, Apr 08

*Reliability of Internet Sources in an Open Content World*, PSLA Conf, Hershey, Apr '08

*Master Class: Hands-On with New Classroom technologies*, CAPE Conf, Grantville, '08

*Emerging Technologies: hottest ways new technologies will impact learning and student motivation*, CAPE Conference, Grantville, PA, April, 2008

*Integrating and Funding STEM Activities in Secondary Schools*, CAPE Conf, PA, Apr '08

*Second Life: an immersive, low-cost, 3D distance learning environment*, CAPE conf '08

*Globalizing our Educational Infrastructure (panelist)*, DeSales Univ, Ctr. Valley, PA, '08

*Copyright Issues for Museums & Libraries*, ALHFAM Keynote, Pennsbury Manor PA, '08

*Searching and Selecting Internet Resources*, ALHFAM Conf, Pennsbury Manor PA, '08

*Visualizing and Simulating Emergent Changes in Earth Systems*, NSTA Boston, Mar '08

*Great Student Activities for One-to-One Computer Science*, NSTA, Boston, Mar, 2008

*Simulation Tools to Explore Complex, Emergent & Evolutionary Phenomena*, NSTA '08

*Online Tools that Empower Constructivist, Collaborative Learning Environments*, Illinois Online Conference (held online for global audience), Feb, 2008

*Writing Successful Technology and Education Grants*, PETE&C, Hershey, PA. Feb '08

*OLPC Live: the world's most interesting technology*, PETE&C Conf, Hershey, Feb '08

*A Positive Solution to K-20 Copyright Concerns*, PETE&C Conf, Hershey, PA, Feb '08

*Simulating Emergent Changes in Earth Systems*, NSTA Denver, Nov, 2007

*Partner for Success: Statewide initiatives you can join*, TRETTC conf, Pittsburgh, Nov '07

*Hands-On Wkshp: Deep Thought with Science Simulations*, TRETTC, Pittsburgh, Nov '07

*Hands-On with the Best Web-Based Student Activities*, Blended Schools conf, Oct 2007

*Simulation Tools to Explore Emergent Scientific Phenomena*, NSTA Detroit, Oct 2007

*Hands-On Wkshp: Technology Tools for the 21<sup>st</sup> Century Learner*, NECC, Atlanta, 2007

*Open Content: "Open Source" for core learning materials*, CAPE Conf, Hershey, Mar 07

*Online Dual-Enrollment Foreign Language Instruction (moderator)*, CAPE Conf, Mar '07

*Closing Address: Planning for the Year Ahead*, CAPE Conference, Hershey, PA, Mar 07

*Can We Replace Standard Software with Open Source Alternatives?* Full-day workshop, PA Educational Technology Expo & Conference, Hershey, PA. Feb 2007

*Differentiate Instruction with One-to-One Laptops*, PETE&C Conf, Hershey, Feb 2007

*The \$500 Videoconference Classroom*, PETE&C Conference, Hershey, PA, Feb 2007

*Empowerment vs. Control: What's your openness quotient?* Educause, Baltimore, 2007

*Promoting Remote Dual Enrollment as a Recruiting & Revenue Source*, Educause 2007

*Tools & Techniques for Web-Based Multimedia Content*, Blended Schools, Sept 2006

*MIT OLPC Initiative: Implications for 1-to-1 schools in the U.S.*, Pennsylvania One-to-One Laptop Conf, Penn State University, March 2006

*Open Source Software for the 1-to-1 Classroom*, PA 1-to-1 Conf., Penn State, 2006

*Project BLADE Educational Applications of Broadband Internet*, CAPE Conf, Mar 2006

*Best Open-Source Software for Your Classroom*, PETE&C Conf, Hershey, Feb 2006

*Design the Future: Tools for graphics & animation*, PETE&C Conf, Hershey, Feb 2006

*Mathematics and Technology for the 21<sup>st</sup> Century*, PETE&C Conf, Hershey, Feb 2006

*Beyond Whiteboards & PowerPoint: Building engagement through online collaboration environments*, wkshp, Nat. Dist. Teaching & Learning Conf, Madison, WI. Aug 2005

*Maximizing Collaboration & Engagement in an International Online Graduate Course*, National Distance Teaching & Learning Conf., Madison, WI, Aug 2005

*Hands-On Squeak: Exploring the constructivist design, collaboration & simulation*

*environment*, full-day wkshp. Nat Educ. Computing Conf., Philadelphia, June 2005  
*Deep Thought: Empowering students to think with open source software*, NECC 2005  
*Best Open Source Software for Your Classroom*, PETE&C Conf, Hershey, Feb 2005  
*Design the Future: Tools for graphics & animation*, PETE&C Conf, Hershey, Feb 2005  
*Mathematics & Technology for the 21<sup>st</sup> Century*, PETE&C Conf, Hershey PA, Feb 2005  
*Vision to Implementation: A Team approach to planning a 1:1 laptop program*, National Educational Computing Conf., New Orleans, June, 2004  
*Academic Standards and Technology in Plain English*, National Educational Computing Conference, Chicago, June, 2001  
*Streaming Video and School-Based Webcasting*, Pennsylvania School Boards Assn. Conf., Penn State Univ., Nov., 2000  
*Academic Standards in Plain English: Changed assumptions about knowledge and the learner*, PRISE Conference, Bethlehem, PA, Aug. 3, 2000  
*Using Technology to Help Students Meet Academic Standards*, PRISE Conference, Bethlehem, PA, Aug. 3, 2000  
*Beyond E-Mail and Web Surfing: Building powerful administrative and educational services into your school network*, Pennsylvania School Boards Assn. Conf., Penn State Univ., Nov. 11, 1998  
*Creating an Award-Winning Technology Plan*, Pennsylvania Educational Technology Conf., March, 1998  
 "Internet Initiation for Educators," keynote speaker, Southern Lehigh School Dist., 1997  
 "Networking your School and District: a strategic approach to curriculum and organizational change" (w/ M. Terzanski), *Educational Technology: planning for the future*, Summer Administrative Workshop, Mt. Laurel Conf. Ctr., PA, Aug. 4-5, 1994  
 "Integrating Technology into the Curriculum," *Creating Effective Middle Level Schools: White Water Rafting in the 90's*, Lehigh University Middle Level Partnership, Bethlehem, PA, April 15, 1994  
 "Developing a Technology Vision and a Technology Plan," *Take Off With Technology!*, BASD, Bethlehem PA, Nov. 2, 1993  
*Algorithmic Graphic Output on Laser Printers*, ADCIS National Conf., Philadelphia, 1988  
*Math Art Based on Pascal's Triangle*, ADCIS National Conf., Philadelphia, 1988  
*Educational Robots in the Traditional School Curriculum*, (with Lori Weaver) ADCIS National Conf., Philadelphia, 1988  
*A Practical LEGO Logo Approach for a Self-Contained Classroom*, ADCIS National Conf., Philadelphia, 1988  
*Library Applications of Desktop Publishing*, Pennsylvania State Library Technology Conf., Harrisburg, 1987  
*Logo and Little Robots – A Curriculum Perspective with Classroom Applications*, PA Assoc. Teachers of Mathematics, Pittsburgh, 1986  
*Logo and Little Robots*, ATMOPAV, Philadelphia, 1985  
*Data Management With Microcomputers*, (with Lillian Kerns) HCEEP Projects National Conf., Washington, DC, 1984  
*Motivating Students with Logo*, Eastern PA Council of Teachers of Mathematics, 1984  
*Artificial Intelligence Techniques in Moral Dilemma Software*, (with Dr. Robert Leight) MARC (regional NCSS conf.), Philadelphia, 1984.  
 "Developing Thinking Skills and Problem Solving with Logo," *COMPUTERS, The School's Response*, PA Dept. of Education & Lehigh Univ. School Study Council Conf., 1983  
*Conversational Artificial Intelligence Techniques in Moral Dilemma Software*, (with Dr. Robert Leight) PACSS Conf., Harrisburg, PA, 1983

**Competitive Grants Awarded (as sole or primary P.I./author)**

"Development of Resources for LVAIC Faculty for Online Class Collaboration (with Lehigh, Muhlenberg & Moravian)," Teagle Foundation/LVAIC, \$5000, 2014  
 "NEPAL: NorthEast PA Language Initiative," U.S. Dept. of Educ., \$600,000, 2009-12  
 "Building Regional Global Language Infrastructure", Wall St. West, \$292,315, 2008-09  
 "Project ViSA", Motorola Foundation grant for math/science prof. dev. \$98,775, 2007

"Project BOUNCE", DCED grant for PA science & health education, \$99,000, 2007  
 "BLADE Project", Technology Council of Central Pennsylvania, \$50,000, 2006  
 Enhancing Education Through Technology Competitive Grant, \$328,640, 2004  
 Enhancing Education Through Technology Competitive Grant, \$328,640, 2003  
 Enhancing Education Through Technology Competitive Grant, \$328,640, 2002  
 "ASCEND-2", PA Students Achieving Standards Grant, \$445,346, 2001  
 Educate America Act Grant for BASD, BAVTS, Academic Stds. Acad. \$405,000, 2001  
 "Project ASCEND", PA Students Achieving Standards Grant, \$445,346, 2000  
 Funding to for 18 libraries to join AccessPA's statewide library database, 2000  
 "Technology for School Libraries," \$49,962 Library Systems Technology Act, 2000  
 "School-Based Webcasting," \$248,397 Technol. Literacy Challenge Fund Grant, 2000  
 "ASPIRE II: After School Partnership for Instruction, Recreation and Enrichment,"  
 \$1,805,111 for 21st Century Community Learning Center Grant, 2000-2003  
 "ASPIRE: After School Partnership for Instruction, Recreation and Enrichment,"  
 \$941,250 for 21st Century Community Learning Center Grant, 1999-2002  
 "Project TECH: Teacher Education Collaboration Hub," \$120,000 PT3 Grant with  
 Moravian and Northampton County Colleges, 1999  
 "PRISE Project: Pennsylvania Resources to Implement Standards in Education,"  
 \$1,000,000 Statewide Impact Educate America Act Grant, 1999  
 "Portable Computing, Network, and Staff Development for Academic Standards,"  
 \$370,000 Educate America Act Grant, 1999  
 "BEN:WEB (Workers in Education and Business)," \$30,000 PA Digital Grassroots, 1998  
 "DigiMuse (Digital Museum)," \$15,000 PA Digital Grassroots Grant, 1998  
 "Wireless, Lab and Home-based Technology for Academic Standards," \$410,000  
 Technology Literacy Challenge Fund Grant, 1998  
 "Training and Technology Support for New Standards Curriculum," \$390,000, Educ.  
 America Grant, 1998  
 "Portable Computers for Home and School; CompuCats; and Switch BEN," \$262,000  
 Technology Literacy Challenge Fund Grant, 1997  
 "Implementing New Standards," \$350,000 Educate America Act Grant, 1997  
 "BEN:LINCS," \$250,000 PA Link-To-Learn Tech. Testbed Proj. Grant, 1997  
 "New Age Networking," \$18,500 Apple Partnership Grant, 1994  
 "Future Schools Grant," \$20,000 technology grant awarded by Bell Atlantic, 1994-1995  
 "Bethlehem Education Network Pilot," \$25,000 grant and \$75,000 equipment  
 loan/installation awarded by SynOptics Communications, 1993-'94  
 "Restructing High School Science Teaching and Learning Through Interactive Visual  
 Media," \$25,000 research grant awarded by Optical Data Corporation for the PA  
 Schools Educational Research Partnership Program, 1993-1994

### Consulting

Project-Based Learning Consultant, Allentown SD, 2014-2015  
 Evaluation Consultant, *Class Compete* game-based authentication system, 2014  
 Project-Based Learning & School Design Consultant, Allentown School District, 2014  
 MOOC Innovations Consultant, Professional Development Group, Philadelphia, 2014  
 Evaluator and Consultant, Virtual Studio Project, IMLS/MacArthur Foundation, 2012-'13  
 Game Design Academy Consultant, Allentown School District, 2010-'11  
 Technology/mathematics Integration Consultant, IU#19, 2010  
 Consultant/Coach, Anytime Anywhere Learning Foundation, 2009-present  
 -- Dallas Independent School District, Dallas, TX, 2014  
 -- Ponca City School District, Ponca City, OK, 2010-'13  
 -- Durant Independent School District, Durant, OK, 2010  
 -- Branksome Hall School, Toronto, Canada, 2010  
 Online Forensics Course Development Consultant, Penn State University, 2008-2009  
 Educational Technology Consultant, Northwestern Lehigh SD, 2008-2010  
 Educational Technology Consultant, Northampton Area SD, 2008-2010  
 Technology Planning Consultant, Lehigh Valley Academy, 2007-09

Reviewer, Classrooms for the Future Grant, PA Dept of Education, 2006, 2008  
 Technology Planning Consultant, Tewksbury Township School Dist., NJ, 2007  
 Technology Planning Consultant, LV Charter High School for Performing Arts, 2006-7  
 Middle States Assn., accreditation visit team member, St. Mary's School, NYC, 2005  
 CITA (Commission for International and Trans-regional Accreditation)  
 -- Assediq Language Schl., 10th of Ramadan City, Egypt, accreditation team leader, '06  
 -- BBC Sheraton, Heliopolis, Egypt, visiting team member, 2005, '06  
 -- Elite School, Abu Dhabi, UAE, visiting team member, 2006  
 -- Al Khaleej National School, Dubai, UAE, visiting team member, 2006  
 -- AISE 2000 School, Cairo, Egypt, visiting team member, 2005  
 Technology Usage Consultant, Bethlehem Area Vo-Tech School, 2005  
 Keystones Summit Consultant, Pennsylvania Dept. of Education, 2004  
 Technology Planning/Budgeting Consultant, Wilson School District, PA, 2001  
 Reviewer, Technology Occupation Skills, California Occupational Guide , 2000  
 Faculty Technology Skills Consultant, Moravian College, 1999 - '00  
 PT3 Grant Evaluator, Moravian College, 1999 - '00  
 Network Planning Consultant, Byram (NJ) School District, 1996 - '97.  
 Distance learning consultant, Carbon-Lehigh Intermediate Unit, 1997  
 Internet training consultant, Navajo Community College, Shiprock, NM, 1996  
 Technology planning/training consultant, Palisades School District, 1995, 1996  
 Technology planning consultant, Hamburg Area School District, 1995  
 Technology training consultant, Belvidere, NJ, School District, 1994-1995  
 Consultant/presenter, A New School of Thought (Middle Schl.), Apple Computer, 1994  
 Technology planning consultant, Belvidere, NJ, School District, 1993-1995  
 Technology training/planning consultant, Central Bucks, PA, School District, 1993  
 Designed & produced EXPReS , an automated pupil-progress reporting system, East  
 Penn S. D., 1988-1992  
 Consultant/programmer for PSADA (PA State Athletic Directors Association), designed  
 & developed management software, 1989-1992  
 Consultant to Scott, Foresman & Co. for formative evaluation of educ. software, 1989  
 Project ProCEED , developed/presented "The Teacher's Computer" staff development  
 module, East Penn S. D., 1988-'1992  
 Consultant/HyperCard programmer, The Laser Gallery , a joint interactive videodisc proj.  
 w/ Lehigh Univ., Kutztown Univ. (Dr. Marilyn Stewart), & Allentown Art Museum, 1988  
 Advisor/consultant for computer/software for 8 school/library grant proposals, 1983-'89  
 Software evaluation consultant for The Learning Company program, Writer Rabbit, 1986  
 Consultant to National Research Council, National Academy of Science, 1985-'86  
 Consultant to Lehigh Univ. and Ben Franklin Technology Center for advanced  
 communication & printing of text and graphics, 1985  
 Field consultant for Technical Assistance Development Service (TADS acts as agent for  
 U.S. Dept. of Education), Univ. of N.C. at Chapel Hill, 1984  
 Consultant for computerized data management and statistical analysis for Allentown  
 S.D. Project H.A.P.P.Y. , 1984-'87. (HCEEP project of U.S. Dept. of Education.)  
 Consultant/advisor to local small businesses, 1984-'87  
 Consultant/designer of speech therapy software, Good Shepherd Rehab. Hospital, 1983

### Programs Initiated

Initiator, author & PI of Lehigh, Muhlenberg, Moravian online learning project, 2014-15  
 Co-PI of Lehigh Univ. FIG: Middle School Geometry iPad App devel. project, 2013-14  
 Co-initiator and participant of Lehigh College of Ed. online course devel. grant, 2014.  
 Initiator, designer, and implementer of *CAPE Learning Spaces* in Second Life, '07-pres.  
 Initiator, designer, and implementer of ViSA Project (PA statewide) 2007-2008  
 Designer and implementer of Project BOUNCE (PA statewide) 2007-08  
 Initiator & designer of CAPE dual enrollment courses for Online World Languages, 05-07  
 (note: this evolved into the blendedschools' Language Institute)  
 Initiator, designer, and implementer of the BLADE Project (PA statewide) 2006-07



Initiator, designer, and implementer of BASD IP Telephony Project, 2004  
 Initiator, designer, and implementer of BASD Wireless Networking Project, 2000-'04  
 Initiator, designer, and implementer of BASD Web-enabled Database Project, 2000-'03  
 Initiator, designer, and implementer of BASD Site-Based Webcasting Project, 2000-'01  
 Initiator, designer, and implementer of BASD Streaming Video Project, 1999-'01  
 Initiator, designer, and implementer of BASD Site-Based Webmaster Project, 1998-'04  
 Initiator, designer, and implementer of BASD websites, 1995-present  
 Initiator, designer, and implementer of the *BEN Project*, (Bethlehem Education Network), Bethlehem Area School District, 1994 - present  
 Initiator, designer, and implementer of Network Pilot Project, Beth. Area S. D., 1992-'94  
 Initiator, designer, and implementer of *EXPREs*, a highly automated, building-based, elementary pupil progress reporting system. The system, one of the most advanced in the nation, was implemented in all East Penn elementary schools, 1989-'91  
*Project W.R.I.T.E.* (Jefferson Poetry Festival), '88-'89, Jefferson School, East Penn S.D.  
 Young Authors' Book Contest, 1982, '83, '85-'89, East Penn School District. Program designer and implementer (mini-grant awarded)  
*Elementary Robotics Exploration*, East Penn School Dist. (mini-grant award), 1985-'86  
 East Penn Summer Computer Camp, 1982, '83. Program designer and instructor, 15 instructional hrs. (taught 246 elementary students over 15 sessions)  
 Introduced the Individualized Language Arts (I.L.A.) writing curriculum to East Penn Sch Dist (subsequently adopted as part of the district lang. arts curriculum). c. 1977

### SERVICE (Advising & Dissertation Chair & Committee positions not included)

**Awards/  
Elected Positions** *Outstanding Contribution to the Field of Educational Technology Award*, Lehigh U., 2003  
 Communicator 2000 *Crystal Award of Distinction*, "A High School Transition Project," *PRISE Video Series*, BASD/AcerraGroup, 2000  
 Gold Aurora Award, "Becoming Standards Based: Elementary Language Arts," *PRISE Video Series*, BASD/AcerraGroup, 2000  
 Silver Telly: Educational Video National Winner, "Becoming Standards Based: Elementary Language Arts," *PRISE Video Series*, BASD/AcerraGroup, 2000  
 Bronze Telly: Educational Video Finalist, "Becoming Standards Based: An Elementary School Extended Project," *PRISE Video Series*, BASD/AcerraGroup, 2000  
 Top 5 Educational Technology Plans Nationwide (Awarded to BASD by National Center for Technology Planning, Scholastic, & *Electronic Learning*), 1995  
 Director of Education, Lehigh Valley Free-Net Association, 1994  
 Chair, Alumni Council, Lehigh University College of Education, 1992-1994  
 Chairman, Awards Committee, Alumni Council, Lehigh Univ. Coll. of Ed., 1988 - 1992  
 Member, Alumni Council, Lehigh Univ. Coll. of Ed., 1986-94  
*Kappan of the Year*, Phi Delta Kappa, Lehigh Chapter, 1987-88  
*Outstanding Teacher Award*, East Penn School District, 1986-87  
 Elected to Lehigh University Alumni Council, 1986-1992

**Committee Positions  
(selected)** Lehigh University Information Systems Steering Committee, Spring, 2015  
 Lehigh College of Education Online Learning Study Committee, 2014-15  
 NorthEast PA STEM Center, Exec. Board & Communications Chair, 2009-2012  
 DaVinci Discovery Science Center Education Committee, 2009-2012  
 Program Committee Chair, CACLV Children's Technology Center, 2003-04  
 Local Academic Advisor to Wilkes Graduate Program at BASD, 2002-03  
 Technology Planning Committee (chair), Bethlehem Area School Dist., 2001-04  
 Elementary Report Card Committee, Bethlehem Area Schl. Dist., 1994-2003  
 Administrative Technology Committee, Bethlehem Area Schl. Dist., 1994-04  
 Technology Steering Committee, Bethlehem Area Schl. Dist., 1993-04  
 Technology Committee, Bethlehem Area Schl. Dist., 1992-1993  
 Educational Robotics Study Group, Lehigh University, 1984 & '85  
 Chair, Inservice Subcommittee of Staff Development Committee, East Penn School

Dist., (evaluated inservice program; led to founding of noted Project ProCEED) 1982

**Professional/  
Service Affiliations**

College of Liberal Arts and Sciences Advisory Board, DeVry University (Phila), 2014  
Verita/Degruyter Open Advisory Board Member, 2013 - present  
ISTE (International Society for Technology in Education), 1986 - present  
ACTFL (American Council of Teachers of Foreign Language), member, 2010-2012  
Lehigh Valley Charter School for the Performing Arts, Tech Advisory Board, 2007-2010.  
Community Action Committee of the Lehigh Valley, 2003-2008  
Advisory Board, Technology Committee, and Program Committee, 2003-2008  
NSTA (National Science Teachers of America), 2007 - 08  
Lehigh University Alumni Council, 1987 - 94  
Nominating Committee, 1988 - 89  
Awards Committee, 1988 - 92  
Executive Committee, 1992 - 94  
Phi Delta Kappa, 1983 - present  
President, 1991 – 92 (two terms)  
Vice President, 1990 - 91  
Research Representative, 1988 - 91  
Historian, 1987 - 88  
Newsletter Editor, 1986, '87, '92, '93, '94  
ADCIS (Assoc. for the Devel. of Computer-Based Instructional Systems), 1988 - 93  
member Theory and Research Sig and HyperMedia SIG  
NCTM (National Council of Teachers of Mathematics), 1989 - 90  
National Education Association, 1972 – lifetime member  
Pennsylvania Education Association, 1972 – lifetime member

**Academic Service**

Manuscript Reviewer: Martín Monje, E. & Bárcena (eds) (2014). *Language MOOCs: Providing learning, transcending boundaries* (working title). Versita/De Gruyter Open.  
Book Proposal Reviewer: Martín Monje, E. & Bárcena (eds). *Language MOOCs: Providing learning, transcending boundaries* (working title). Versita. 2013