

CURRICULUM VITA

MARA ALAGIC

Associate Professor, Curriculum and Instruction

Graduate Coordinator - Master of Education in Learning and Instructional Design

Wichita State University, Wichita KS 67260 - 0028

Phone (316) 978 – 6974, fax: (316) 978 - 6935

E-mail: mara.alagic@wichita.edu

Web Pages:

http://webs.wichita.edu/?u=coedci&p=/people/mara_alagic

<http://thirdplacelearning.ning.com/>

Editor-in-Chief: *Journal of Mathematics and the Arts*, Taylor & Francis, UK

Professional Preparation

- Ph. D. dissertation: *Categorical Views of Some Relational Models*, Department of Mathematics, University of Belgrade, Yugoslavia.
- M. Sci. in Mathematics: *Category of Multivalued Mappings (Hypertopology)* Department of Mathematics, University of Belgrade, Yugoslavia.
- BS in Mathematics, Department of Mathematics, University of Belgrade, Yugoslavia.

Appointments

- 2005 - ongoing, Department of Curriculum and Instruction, Wichita State University, Kansas
Associate professor
- 2009 - 2012 Wichita State University, Kansas *Graduate School Assistant Dean* (half time)
- 1999 – 2005 Department of Curriculum and Instruction, Wichita State University, Kansas
Assistant Professor
- 1993 - 1999, Department of Mathematics and Statistics, Wichita State University, Kansas,
Mathematics Instructor
- 1991 - 1993, Department of Mathematics and Statistics, The University of Vermont, Burlington,
Vermont *Mathematics Visiting Assistant Professor*
- 1988 - 1991, *President of DMFA BiH* - Association of Mathematics, Physics, and Astronomy of
Bosnia and Herzegovina
- 1985 – 1991, Department of Mathematics, University of Sarajevo *Assistant Professor*

Selected Publications

Rimington, G. M., & Alagic, M. (2016). Corporate Social Responsibility: ThirdPlaceLearning for Absorbing Diverse Perspectives. In Hansen, K., & Seierstad, C. (Eds.). *Corporate Social Responsibility and Diversity Management: Theoretical Approaches and Best Practices* (pp. 269-288). Springer International Publishing.

(In the Series CSR, Sustainability, Ethics & Governance, Springer) Springer

Alagic, M., Orel, T. & Rimington, G. (2016): Toward Dynamic Representations of ThirdPlaceLearning. Proceedings of the TKE 2016 - 12th International Conference on Terminology and Knowledge Engineering, June 2016 Copenhagen Business School, CBS <http://openarchive.cbs.dk/handle/10398/9323> (Proceedings) https://dl.dropboxusercontent.com/u/27766628/TKE%202016%20present_ALAGIC.pdf (paper) <http://openarchive.cbs.dk/handle/10398/9323> (Proceedings)

Flores, R., Koontz, E., Inan, F. A., & Alagic, M. (2015). Multiple representation instruction first versus traditional algorithmic instruction first: Impact in middle school mathematics classrooms. *Educational Studies in Mathematics*, 89(2), 267-281.

Orel, T., Alagic, M., & Rimington, G. (2014). Concept System Analysis of the ThirdPlaceLearning Theory. In *Terminology and Knowledge Engineering 2014*, (pp. 10-p).

Alagic, M. (2014). Preservice Elementary Teachers: Creative Thinking, Pedagogy and MathArt Projects. In *George W. Hart G. W. & Sarhangi, R. (2014) Proceedings of Bridges 2014: Mathematics, Music, Art, Architecture, Culture, Seoul, Korea. Phoenix, Arizona, 317-320.* <http://archive.bridgesmathart.org/2014/bridges2014-317.pdf>

Alagic, M. (2013). Teacher Candidates' Perceptions of Mathematical, Cognitive and Pedagogical Fidelity of the "fill & pour" Virtual Manipulative. Martinez, M. & Superfine, C. A. (Eds.). (2013). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Chicago, IL: University of Illinois at Chicago*, (p. 119 – 126).

Alagic, M., & Rimington, G., (2013). Google Earth: Mathematical Art Forms. In *George W. Hart G. W. & Sarhangi, R. (2013) Proceedings of Bridges 2013: Mathematics, Music, Art, Architecture, Culture. Enshede, Netherlands, 523–526.* <http://archive.bridgesmathart.org/2013/bridges2013-523.pdf>

- Liu, F., & Alagic, M. (2013). Changing preservice elementary teachers' perceptions of teaching and learning the metric system. *Journal of Mathematics Education*, 6, 1-16.
- Alagic, G. & Alagic, M. (2012). Collaborative mathematics learning in online environments. In Martinovic, D; Freiman, V. & Karadag, Z. (Eds.). *Visual Mathematics and Cyberlearning Series: Mathematics Education in the Digital Era*, Vol. 1, Springer.
- Rimmington, G., Alagic, M. & Blessinger, P. (2012). Global learning: still too expensive? *The Guardian*. (<http://www.guardian.co.uk/higher-education-network/blog/2012/jul/26/global-learning-costs-higher-education>)
- Alagic, M., Rimmington, G., Liu, F., & Gibson, K. (Eds.). (2010) *Locating Intercultures: Educating for Global Collaboration*, New Delhi, India: Macmillan.
- Alagic, M. (Guest Editor) (2009). Arts in the Mathematics Classroom: Mathematics Education. *Journal of mathematics and Arts*, 3(3), London, UK: Taylor & Francis
. <http://www.tandfonline.com/doi/pdf/10.1080/17513470903226438>
- Rimmington, G. & Alagic, M. (2009). Learning Organizations and Cage Painting Framework as the Fifth Discipline. *International Journal of Learning and Change (IJLC): Special Issue on Learning, Organizations and the Global Enterprise*.
- M. Alagic, A. L. Nagata, & G. M. Rimmington (2009). Improving Intercultural Communication Competence: Fostering Bodymindful Cage Painting. *SIETAR Japan Journal*, (12).
- Alagic, M., Rimmington, G. M., Orel, T., (2009). Third Place Learning Environments: Perspective Sharing and Perspective Taking. *I. J. Advanced Corporate Learning*, 2(4), 4-8.
- Rimmington, G. & Alagic, M. (2008). *Third Place Learning: Reflective Inquiry into Intercultural and Global Cage Painting*. In book series Huber-Warring, T. Teaching. *Learning Indigenous, Intercultural Worldviews International Perspectives on Social Justice and Human Rights*. Charlotte, NC: Information Age Publishing Inc.
- Alagic, M. & Gailiunas, P. (2007). Understanding math via arts, Creating Arts via Math. In Sarhangi, R. & Barrallo, J. (Eds.) (2007). *Proceedings of the 10th Annual Bridges Conference. Bridges Donostia: Mathematics, Music, Art, Architecture, Culture*. San Sebastian, Spain. Hertfordshire, UK: Tarquin Publications. pp. 423-425.
- Alagic, M., Gibson, K. L., & Rimmington, G. M. (2007). Co-constructing intercultural communication competence through an online cage painting simulation and scenario repository: A theoretical perspective. In S. Manikutty (Ed.), *3rd International Conference on*

Intercultural Communication Competence: Learning, Teaching and Research in a Borderless World (pp. 118-150). New Delhi, India: Macmillan.

Rimmington, G., Gibson, K., & Alagic, M. (2007). Improving strategies for intercultural communication through simulated experiences. In T. Schmalzer, G. Apfelthaler, K. Hansen & R. Singh (Eds.), *Intercultural communication competence: Implications for learning and teaching in a globalized world* (pp. 180-196). Delhi: Macmillan India Ltd.

Alagic, M. (2007). Innovations in mathematics education via the arts BIRS Workshop 07w5062 22-26 January 2007 Banff, Alberta, Canada (report). *Journal of Mathematics and the Arts*, 1(3), 203 - 207. doi:10.1080/17513470701585977

Rimmington, G.M., & Alagic, M. (2007). From Modeling Foliage with L-systems to Digital Art. In Sarhangi, R. & Barrallo, J. (Eds.) (2007). *Proceedings of the 10th Annual Bridges Conference. Bridges Donostia: Mathematics, Music, Art, Architecture, Culture. San Sebastian, Spain*. Hertfordshire, UK: Tarquin Publications. pp. 269-276.

Alagic, M., Gibson, K., & Rimmington, G. (2006). Co-constructing intercultural communication competence through an online cage painting simulation and scenario repository: A theoretical perspective. *Proceedings of the 3rd International Conference on Intercultural Communication Competence: Learning, Teaching and Research in a Borderless World*. Ahmedabad, India.

Alagic, M., & Palenz, D. (2006). Teachers explore linear and exponential growth: Spreadsheets as cognitive tools. *Journal of Technology and Teacher Education (JTATE)*, 14(3), 633-649.

Alagic, M. (2006). How to Put it all Together? Redesigning Learning Activities to Meet the Needs of Elementary Teacher Candidates. *Proceedings of the 30th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME30): Mathematics in the centre*, Prague, Czech Republic.

Radebaugh, D., Soschinske, K., Rimmington, G., & Alagic, M. (2006). A Web-based Interactive Approach for Engineering Ethics Training in a Global Learning Environment. *Proceedings of the Midwest Section Conference of the American Society for Engineering Education*, Kansas City, MO.

Alagic, M. (2006). Mathematics Investigations: Towards Curriculum design and implementation. *Proceedings of the 17th ICMI (The International Commission on Mathematical Instruction) Study 'Digital technologies and mathematics teaching and learning: Rethinking the terrain'*. Hanoi, Viet Nam.

- Huber-Warring, T, Mitchell, L., Alagic, M., & Gibson, I. (2005). Multicultural/diversity outcomes: Assessing students' knowledge bases across programs in one college of education. *Journal of Thought, 40*(3), 25-50.
- Alagic, M., Doyle, C., Gibson, K., Yeotis, C., & Kear, D. (2005). Redefining learning activities in ICT-based environments. *Proceedings of the Society for Information Technology & Teacher Education International Conference (SITE 2005), Phoenix, Arizona, 16*, 1247-1251.
- Alagic, M., Doyle, C., Gibson, K., Yeotis, C., & Kear, D. (2005). Re-defining learning activities: ICT-generated paradigm change. *Proceedings of the Society for Information Technology & Teacher Education International Conference (SITE 2005), Phoenix, Arizona, 16*, 1252-1258.
- Kear, D., & Alagic, M. (2005). Enriching learning and assessment: Handhelds as cognitive tools. *Proceedings of the Society for Information Technology & Teacher Education International Conference (SITE 2005), Phoenix, Arizona, 16*.
- Alagic, M., & Palenz, D. (2005). Dynamic geometry/Art in mathematics classroom. In R. Sarhangi & R. V. Moody (Eds.), *Renaissance Banff: Bridges: Mathematical Connections in Art, Music, and Science, Proceedings 2005* (pp. 531-535). Winfield, KS: Renaissance Banff Conference, Central Plain Book Manufacturing.
- Alagic, M., Gibson, K. L., & Rimmington, G. M. (2005). Developing intercultural communication skills with the cage painting simulator. *Proceedings of the Корпоративный Дух Образовательного Учреждения Как Фактор Саморазвития Личности (Proceedings of the International Conference on the Corporate Spirit of Educational Institutions as a Factor for Personal Development), Хабаровск*. (Invited)
- Alagic, M., & Sarhangi, R. (Eds.). (2004). *Bridges for teachers, teachers for bridges: 2004 workshop book*. Bel Air, MD: Academx Publishing Services.
- Alagic, M., & Emery, S. (2004). Differentiating instruction with marbles: Is this algebra or what? *International Journal for Innovation in Mathematics Teaching and Learning*. In Monograph I "INTERNATIONAL RESEARCH: Selected Articles from the International Journal for Mathematics Teaching and Learning". Muszaki, the Hungarian publisher and part of the Kluwer publishing house.
- Alagic, M. (2004). Fostering understanding of mathematics visualization. In M. Alagic & R. Sarhangi (Eds.), *Bridges for teachers, teachers for bridges: 2004 workshop book* (pp. 1-17). Bel Air, MD: Academx Publishing Services.

- Rayl, N., & Alagic, M. (2004). Assessment using technology: A case study in computer aided drafting. Proceedings of the *Technology and its Integration in Mathematics Education (TIME-2004) Conference*, Montreal, Quebec, Canada.
- Thiel, Rae, & Alagic, M. (2004). TI-based learning environments: Developing conceptual understandings of functions-related concept. Proceedings of the *Technology and its Integration in Mathematics Education (TIME-2004) Conference*, Montreal, Quebec, Canada.
- Alagic, M., & Palenz, D. (2004). Cognitive tools for exploring linear and exponential growth. Proceedings of the *Technology and its Integration in Mathematics Education (TIME-2004) Conference*, Montreal, Quebec, Canada.
- Yeotis, C., Gibson, K., & Alagic, M. (2004, May). How Does a Learning Cycle Promote Self-Directed Learning? *Proceedings of the 6th International Conference on Education*, Athens, Greece.
- Thiel, Rae, & Alagic, M. (2004). Developing conceptual understandings of functions and Function-related concepts in graphing calculators based environment. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2004)*, Atlanta, Georgia, 2004(1), 4528-4535.
- Rimmington, G., Gibson, K., Gibson, I., & Alagic, M. (2004). The cage model of global learning. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2004)*, Atlanta, Georgia, 2004(1), 3027-3032.
- Witherspoon, T., Reynolds, K., Copas, G., & Alagic, M. (2004). A model for an online, global, constructionist learning environment: Robotics around the world. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2004)*, Atlanta, Georgia, 2004(1), 3083-3088.
- Alagic, M., & Palenz, D. (2004). Cognitive Tools: Exploring linear and exponential growth. Proceedings of the *International Society for Information Technology & Teacher Education International Conference (SITE 2004)*, Atlanta, Georgia, 2004(1), 4345-4352.
- Alagic, M., Gibson, K., & Doyle, C. (2004). The potential for autonomous learning through ICT. Proceedings of the *International Society for Information Technology & Teacher Education International Conference (SITE 2004)*, Atlanta, Georgia, 2004(1), 1679-1684.
- Alagic, M. (2003). Technology in the mathematics classroom: Conceptual orientation. *Journal of Computers in Mathematics and Science Teaching (JCMST)*, 22(4), 381-399.
- Alagic, M., & Emery, S. (2003). Differentiating instruction with marbles: Is this algebra or what?

International Journal for Innovation in Mathematics Teaching and Learning. (Online: ISSN 1473 - 0111) <http://www.intermep.org>

- Gibson, K., Watters, J., Alagic, M., Rogers, G., & Haack, C. (2003). Global learning technology: Developing pre-service teachers' elementary reflective practice through cross-cultural exchanges. *Proceedings of the World Conference on Educational Multimedia, Hypermedia & Telecommunications, 2003(1)*, 2364-2367.
- Alagic, M. (2003). New Learning Environments: CALEM Portals, Quests and Guilds. *Proceedings of the International Conference for Innovation in Higher Education (ICIHE 2003)*, Kiev, Ukraine.
- Alagic, M., Yeotis, K., Rimmington, G., & Koert, D. (2003). Inquiry and information technology integration: Cognitive Apprenticeship Learning Environment Model (CALEM). *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2003)*, Albuquerque, New Mexico, 2003(1), 826-833.
- Kear, D. J. & Alagic, M. (2003). The impact of technology integration on the learning and performance of pre-student teachers. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2003)*, Albuquerque, New Mexico, (2003)1, 1924-1927.
- Gibson, K., Alagic, M., Haack, C., Watters, J., & Rogers, A. G. (2003). Using global learning to enhance the preparation of elementary teachers in the teaching of mathematics and science: what we learned. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2003)*, Albuquerque, New Mexico, 2003(1), 1433-1436.
- Haack, C., Alagic, M., Gibson, K., Watters, J., & Rogers, A. G. (2003). Tailoring a website to meet the needs of global learners. *Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2003)*, Albuquerque, New Mexico, 2003(1), 2396-2399.
- Alagic, M., & Langrall, R. (2002). Differentiating mathematics instruction through technology: Deliberations about mapping personalized learning. In Borovcnik, M & Kautschitsch, H. (Eds.), *Technology in Mathematics Teaching. Proceedings of ICTMT5 in Klagenfurt 2001. Schriftenreihe Didactik Der Mathematik, Band 25* (pp.33-36). Vienna: öbv&hpt.

- Alagic, M. (2002). Participatory cognitive apprenticeship: Teachers learning mathematics in the technology-based environment. *Proceedings of International Society for Information Technology & Teacher Education, (SITE 2002), Nashville, Tennessee, 2002(1)*, 1038-1042.
- Alagic, M., Gibson, K. L., & Haack, C. (2002). Learning to teach elementary mathematics and science: A global learning dimension. *Proceedings of the International Conference on Computers in Education 2002, New Zealand, 2002(1)*, 1037-1038.
- Gibson, K., Alagic, M., & Haack, C. (2002). Teaching mathematics and science: Using global learning for the effective preparation of prospective elementary teachers. *Proceedings of the World Conference on Educational Multimedia, Hypermedia & Telecommunications, USA, 14*, 616-617.
- Bolick, M., & Alagic, M. (2001). Fostering confidence in teaching science and mathematics. *Science Teacher Education, 3(1)*, 7-9.
- Alagic, M., Emery, S., & Kear, D. (2001). How one mathematics standard can make a difference in the way we differentiate instruction for personalized learning. *Manuscript submitted for publication*. (Submitted to Educational Leadership; rejected; working on revisions.)
- Alagic, M. (2001). Developing geometric thinking: The van Hiele Model. In Alagic, M., & Hack, C. (Eds.), *Instructional Strategies in Mathematics and Science*, CI 402 Course Packet, Wichita State University.
- Emery, S., & Alagic, M. (2001). Enhancing instruction for individualized learning. In Alagic, M., & Hack, C. (Eds.), *Instructional Strategies in Mathematics and Science*, CI 402 Course Packet, Wichita State University.
- Alagic, M. (2000). Structures: Categorical and Cognitive. In R. Sarhangi (Ed.), *Bridges: Mathematical Connections in art, music, and science*. Conference Proceedings (pp.379-386). Winfield, KS: Central Plain Book Manufacturing.
- Alagic, M. (2000). Mathematics: Everyone's future. *The Compass, 4(6)*, 3-4.
- Alagic, M. (2000). Geometric thought and spatial reasoning: Implications for classroom teaching. [On-line]. *International Mathematics Enrichment and Communication Technologies Conference*, University of Cambridge, Cambridge, England.
Available: <http://nrich.maths.org/conference/imect2/choices/popup.php?id=28>
- Alagic, M., & Bolick, M. (2000). Mission mathematics/science: A conceptual change model for teaching mathematics. [On-line]. *International Mathematics Enrichment and*

Communication Technologies Conference, University of Cambridge, Cambridge, England.

Available: <http://nrich.maths.org/conference/imect2/choices/popup.php3?id=24>

Alagic, M. (1999). Abstraction, reflection, and learning. *Conference Proceedings, Bridges - Mathematical Connections in Art, Music, and Science, Winfield, Kansas*. p. 301.

Alagic, M. (1998). A visual presentation of rank-ordered sets. *Conference Proceedings, Bridges - Mathematical Connections in Art, Music, and Science, Winfield, Kansas*. pp. 237-245.

Alagic, S. and Alagic, M. (1997). Order-sorted model theory for temporal executable specifications. *Theoretical Computer Science* 179 no. 1-2, 273-299. 68Q65 (03B70) *Mathematical Reviews* 98c:68138.

Grants

Alagic, M. & Ellsworth, R. (2005). Anderson: Professional Development for Quality (A: PDQ). No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents. Third year awarded \$49,874

Alagic, M, Krehbiel, M., & Palenz, D. (2005). BRIDGES: Connecting Mathematics Teaching, Learning and Applications. No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents. Third year awarded \$46,756

Alagic, M. & Gibson, K. (2005). Preparing Students to Communicate Successfully in Diverse/Global Learning Environments: Sim-Cage Painting. WSU Technology Grant. Awarded, \$7500

Malzan, D., Alagic, M., Cheraghi, S., Krishnan, K., & Whitman, L. (2004). Situated learning through virtual reality \ (SLVR \): Virtual factory modules. Proposal submitted to National Science Foundation, DUE – CCLI – Educational Materials Development. Funded 36 months, \$49,849 not.

Kear, D. & Alagic, M. (2003). Enriching Learning and Assessment by Using Technology Effectively. University Research/Creative projects Award (URCA). Wichita State University. Wichita, Kansas. 1 semester, \$4493; awarded

- Alagic, M., Koert, D., Rillemma, P., & Whitman, L. (2004). National Science Foundation, Information Technology Experiences for Students, Directorate for Education and Human Resources Division of Elementary, Secondary, and Informal Education. Infusing Inquiry and IT into STEM Learning Environments: The Cognitive Apprenticeship Learning Environment Model (CALEM). Not funded 3 years, \$1,182,208.
- Shroyer, G., Alagic, M., Walter, B. K., Behrendt, T., & Heppert, J. (2003). Kansas Mathematics and Science Partnership (KMSp). National Science Foundation, Mathematics Science Partnerships. 5 years, \$32,104,135, not funded.
- Alagic, M. & Ellsworth, R. (2003). Anderson: Professional Development for Quality (A: PDQ). No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents. 3 years, 159,755; first year awarded; second year awarded
- Kear, D., & Alagic, M. (2003). *Enriching Learning and Assessment by Using Technology Effectively*. University Research/Creative projects Award (URCA). Wichita State University. Wichita, Kansas. 1 semester, \$4493; awarded
- Alagic, M., & Ellsworth, R. (2003). *Anderson: Professional development for quality (A:PDQ)*. No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents Grant. Funded 3 years, \$159,755.
- Neal, S., Alagic, M., & Krehbiel, M. (2002). *BRIDGES: Connecting mathematics teaching, learning and applications*. No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents Grant. Funded 3 years, \$143,366.
- Alagic, M., Krehbiel, M., & Palenz, D. (2003). *BRIDGES: Connecting mathematics teaching, learning and applications*. No Child Left Behind – Improving Teacher Quality Grant. Kansas Board of Regents Grant. 3 years, \$143,366; second year awarded
- Alagic, M., Whitman, L., Koert, D., Yeotis, C. & Rillema, P. (2003). *Infusing Inquiry and IT into STEM Learning Environments: The Cognitive Apprenticeship Learning Environment Model (CALEM)*. NSF Division of Elementary, Secondary & Informal Science Education: Information Technology Experiences for Students and Teachers (ITEST). 3 years, \$1,146,447; pending

- Haack, C., Alagic, M., & Gibson, K. (March 2002). *Global learning: Instructional strategies in mathematics/science for elementary teachers*. Global Learning Development Grant for 2002: Curriculum and Instruction. Funded \$15, 000.00.
- Siginer, D., (PI), Alagic, M., Chaudhuri, J., Krishnan, K., & Rimmington, G. (2002). *I-SEE Paradigm for multi-disciplinary learning and collaboration*. NSF Division of engineering education and centers. Funded 1 year, \$99,998.00.
- Gibson, K., Gladhart, M., Mitchell, L., Langrall, R., Alagic, M., & Haack, C. (2002). *Internet2 Window to the classroom*. Wichita State University, Internet2. Funded \$4,217.00.
- Witherspoon, T., Reynolds, K., Rimmington, G., Klopfer, E., Tempel, M., Koert, D., Alagic, M., & Yeotis, C. (2002). *WSU Internet2 Mini grant*. Wichita State University, Internet2. Funded \$4,939.00.
- Koert, D. N., Rimmington, G., Alagic, M., Klopfer, E., Reynolds, K., Tempel, M., Witherspoon, T., & Yeotis, C. (2002). *Internet 2 Instructional development equipment*. Wichita State University, Internet2. Funded \$5,200.00.
- Alagic, M., Langrall, R., & Schommer-Aikens, M. (2001). *Beliefs of middle school mathematics teachers as predictors of their pedagogical content knowledge development: Geometry & pedagogy & psychology*. Wichita State University Office of Research, MURPA - Multidisciplinary research project award. January 1, 2002 – June 30, 2002. Funded \$5,000.00.
- Alagic, M., Hutchinson, J., & Kreihbel, M. (2001) *TM MATH: Teacher Made (Designed) Mathematics*. Kansas Board of Regents, Dwight D. Eisenhower Professional Development Program. Funded \$69, 981.00 Year 1.
- Alagic, M. & Bolick, M. (1999). *Environmental Science, Technology, Integrating Mathematics and Teaching Excellence (ESTIMATE)*. WSU Office of Research Administration. Funded \$11,000.

Presentations

- Alagic, M. (2013). Teacher Candidates' Perceptions of Mathematical, Cognitive and Pedagogical Fidelity of the "fill & pour" Virtual Manipulative. Research report presented at the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Chicago, Illinois.

- Alagic, M. & Rimmington, G.M. (2013). Google Earth: Mathematical art forms. Proc. 16th Annual Bridges Conference. Bridges Enschede. Mathematics, Music, Art, Architecture, Culture. Enschede, The Netherlands. July 27-31, Hertfordshire, UK, Tarquin Publications.
- Rimmington, G. M., & Alagic, M. (October 26-28, 2010). Creating a Third Place Learning Criteria for the 21st Century Globalizing Economy (invited keynote). Innovational Teacher- Innovational Economy International Conference. Khabarovsk, Russia. <http://tinyurl.com/8uqhdat>
- Alagic, M., Gibson, K., & Rimmington, G. (2006). Co-constructing intercultural communication competence through an online cage painting simulation and scenario repository: A theoretical perspective. Paper presented at the 3rd International Conference on Intercultural Communication Competence: Learning, Teaching and Research in a Borderless World, Ahmedabad, India.
- Alagic, M. (2006, 16-21 July.). How to Put it all Together? Redesigning Learning Activities to Meet the Needs of Elementary Teacher Candidates. Paper presented at the 30th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME30): Mathematics in the centre, Prague, Czech Republic.
- Alagic, M. (2006). Mathematics Investigations: Towards Curriculum design and implementation. Paper presented at the 17th ICMI (The International Commission on Mathematical Instruction) Study 'Digital technologies and mathematics teaching and learning: Rethinking the terrain'. Hanoi, Viet Nam.
- Radebaugh, D., Soschinske, K., Rimmington, G., & Alagic, M. (2006). A Web-based Interactive Approach for Engineering Ethics Training in a Global Learning Environment. Paper presented at the Midwest Section Conference of the American Society for Engineering Education, Kansas City, MO.
- Soschinske, K., Rimmington, G., & Alagic, M. (2006). Preparation of Engineering senior design course: Global learning integration. Paper presented at the 9th International Conference on Engineering Education. San Juan, PR.
- Rimmington, G., Gibson, K. L., & Alagic, M. (2006, April 6-7). Improving strategies for intercultural communication through simulated experiences. Paper presented at the 2nd International Conference on Intercultural Communication Competence: Implications for Learning and Teaching in a Globalized World, Graz, Austria.
- Alagic, M., Gibson, K. L., & Rimmington, G. M. (2005). Developing intercultural communication skills with the cage painting simulator. Paper presented at the Корпоративный Дух Образовательно Учреждения Как Фактор Саморазвития Личности (Proceedings of the

- International Conference on the Corporate Spirit of Educational Institutions as a Factor for Personal Development.), Хабаровск, Россия. (Invited)
- Alagic, M. (2005, April). Re-Defining Learning Activities in Mathematics. American Educational Research Association (AERA) meeting, Montreal, Canada.
- Alagic, M. (2005, April). Emerging Learning Environments: Cognitive Apprenticeship Learning Environment Model. American Educational Research Association (AERA) meeting, Montreal, Canada. Haack, C., & Alagic, M. (2004, April 13). *Pre-service Teachers' Inquiry into Children's Thinking*. Roundtable presentation at the conference at the American Educational Research Association (AERA) meeting, San Diego, CA.
- Alagic, M., Langrall, R. C., & Rayl, N. (2004, April). *Epistemological and Subject Matter Beliefs about Geometry of Middle School Mathematics Teachers: Implications for Professional Development*. Paper presented at the conference on Enhancing the Visibility and Credibility of Educational Research, American Educational Research Association (AERA) meeting, San Diego, CA.
- Watters, J. J., Rogers, G. A., Gibson, K., Alagic, M., & Haack, C. (2004, April). *From Kansas to Queensland: Global learning and internationalization in preservice elementary teacher education*. Paper presented at the conference on Enhancing the Visibility and Credibility of Educational Research, American Educational Research Association meeting, San Diego, CA.
- Doyle, C. & Alagic, M. (2004, January). *Preservice elementary teachers' use of FOSS Kits in action research*. Paper presented at the Association for the Education of Teachers of Science International Conference 2004, Nashville, TN.
- Thiel, Rae, & Alagic, M. (2004). *Developing conceptual understandings of functions and function-related concepts in graphing calculators based environment*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2004), Atlanta, Georgia.
- Rimington, G., Gibson, K., Gibson, I., & Alagic, M. (2004). *The cage model of global learning*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2004), Atlanta, Georgia.
- Witherspoon, T., Reynolds, K., Copas, G., & Alagic, M. (2004). *A model for an online, global, constructionist learning environment: Robotics around the world*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2004), Atlanta, Georgia.
- Alagic, M., & Palenz, D. (2004). *Cognitive Tools: Exploring linear and exponential growth*.

Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2004), Atlanta, Georgia.

Alagic, M., Gibson, K., & Doyle, C. (2004). *The potential for autonomous learning through ICT*.

Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2004), Atlanta, Georgia.

Wells, C., Yeotis, C., & Alagic, M. (2003, November). *Focus Group on Secondary Education. Celebration of Teaching*. Sponsored by Phi Delta Kappa (WSU), Phi Delta Kappa International, and Wichita State University, Wichita, Kansas.

Alagic, M., Kay, G., Doyle, C., Walters, J., & Rogers, G. (2003, November). *Self-regulated learning in a global environment*. Paper presented at the Global Learning Internet2 Conference, Wichita, Kansas.

Gibson, K., Gladhart, M., Mitchell, L., Langrall, R., Alagic, M., & Doyle, C. (2003, November). *Window to the classroom*. Paper presented at the Global Learning Internet2 Conference, Wichita, Kansas.

Gibson, K., Watters, J., Alagic, M., Rogers, G., & Haack, C. (2003, June). *Global learning technology: Developing pre-service elementary teachers' reflective practice through cross-cultural exchanges*. Paper presented at the ED-MEDIA World Conference on Educational Multimedia, Hypermedia & Telecommunications, Honolulu, Hawaii.

Alagic, M. (2003, May). *New Learning Environments: CALEM Portals, Quests and Guilds*. Paper presented at the International Conference for Innovation in Higher Education (ICIHE 2003), Kiev, Ukraine.

Gibson, K., & Alagic, M. (2003, May). *Teachers' reflective practice: Adding a global learning facet*. Paper presented at the International Conference for Innovation in Higher Education (ICIHE 2003), Kiev, Ukraine.

Alagic, M., Yeotis, K., Rimmington, G., & Koert, D. (2003, March). *Inquiry and information technology integration: Cognitive Apprenticeship Learning Environment Model (CALEM)*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.

Kear, D. J., & Alagic, M. (2003, March). *The impact of technology integration on the learning and performance of pre-student teachers*. Paper presented at the International Society for

- Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.
- Gibson, K., Alagic, M., Haack, C., Watters, J., & Rogers, A. G. (2003, March). *Using global learning to enhance the preparation of elementary teachers in the teaching of mathematics and science: What we learned*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.
- Haack, C., Alagic, M., Gibson, K., Watters, J., & Rogers, A. G. (2003, March). *Tailoring a website to meet the needs of global learners*. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.
- Haack, C., & Alagic, M. (2003, February 1). *Pre-service teacher investigations of learning and teaching*. Paper presented at the AETS Annual Meeting, St. Louis, TX.
- Alagic, M., & Emery, S., (2002, March 9). *Finding algebra in your jewelry box*. Paper presented at the annual meeting of Expanding Your Horizons, Emporia State University, KS.
- Emery, S. & Alagic M., (2002, March 9). *Mathematics: Where will it take you?* Paper presented at the annual meeting of Expanding Your Horizons: Emporia State University, KS.
- Emery, S., & Alagic M., (2002, March 9). *Have fun thinking for a living: Is that what scientists do?* Presented at the annual meeting of Expanding Your Horizons: Emporia State University, KS.
- Alagic, M. (2002, March 18-23). *Participatory cognitive apprenticeship: Teachers learning mathematics in the technology-based environment*. Paper presented at the International Conference of the Society for Information Technology & Teacher Education 2002. Nashville, Tennessee.
- Alagic, M., Hutchinson, J., & Krehbiel, M. (2002, April). *Teacher made mathematics: Patterns and growth*. Paper presented at The National Institute for Aviation Research (NIAR), Wichita State University, KS.
- Yeotis, C., Haack, C., & Alagic, M. (2002, April 26-28). *Building curves into inquiry*. Paper presented at the Kansas Association of Teachers of Science Conference, Junction City, KS.
- Alagic, M., Krehbiel, M., & Hutchinson, J. (2002, May). *TM MATH: Designing modules*. Paper presented at The National Institute for Aviation Research (NIAR), Wichita State University, KS.

- Gibson, K., Alagic, M., & Haack, C. (2002, June 24-29). *Teaching mathematics and science: Using global learning for the effective preparation of prospective elementary teachers*. Paper presented at the ED-MEDIA 2002 Conference, Denver, CO. (International)
- Alagic, M. (2002, July 11-13). *Technology-based representations of some mathematical ideas*. Paper presented at the IMECT3 - Third International Conference on Mathematics Enrichment with Communication Technology, Robinson College, Cambridge, United Kingdom.
- Alagic, M. (2002, July 11-13). *What change is technology bringing to conceptual understandings of mathematical ideas?* Paper presented at the IMECT3 - Third International Conference on Mathematics Enrichment with Communication Technology, Robinson College, Cambridge, United Kingdom.
- Alagic, M. (2002, August) *Integrating technologies into the teaching of mathematics*. Demonstration/presentation at the COE & Project M3 Street Fair, Corbin Courtyard, Wichita State University, KS.
- Gibson, K., Alagic, M., & Haack, C. (2002, October). *Increasing self-efficacy of elementary pre-service teachers in the teaching of mathematics and science through global learning*. Paper presented at the Phi Delta Kappa International District III Conference, Tulsa, OK.
- Alagic, M., & Emery, S. (2002, October). *Differentiating with marbles: Is this algebra or what?* Paper presented at the Phi Delta Kappa International District III Conference, Tulsa, OK.
- Alagic, M. (2002, October). *Developing geometric thinking: The Van Hiele levels*. Teacher Made Mathematics October session, Wichita State University, Wichita, KS.
- Alagic, M., Haack, C., & Gibson, K. (2002, November). *Instructional strategies in mathematics/science for elementary teachers*. Paper presented at the Global Learning Conference and Internet2 Day, Wichita State University, Wichita, KS.
- Alagic, M., Gibson, K., & Haack, C. (2002, December). *Learning to teach elementary mathematics and science: A global learning dimension*. Paper presented at the International Conference on Computers in Education (ICCE 2002), Auckland, New Zealand.
- Yeotis, C., Alexander, D. R., Hayes, J. L., & Alagic, M. (2001, January). *Raytheon teaching fellows program*. The Association for the Education of Teachers in Science Annual Conference, Math and Science Strand.

- Bolick, M., & Alagic, M. (2001, January). *Challenging pre-service teachers' beliefs about teaching mathematics and science*. Paper presented at the Meeting of The Association for Science Education, Guildford, England.
- Alagic, M., & Langrall, R. (2001, August). *Mapping for learning with technology: Differentiating mathematics instruction for personalized learning*. Paper presented at The Fifth International Conference on the Technology in Mathematics Teaching (ICTMT5). Strand 1: Integration of IC Technologies into learning processes, Klagenfurt, Austria. (International)
- Alagic, M. (2001, October). *Kansas mathematics education: The new certification outcomes and other current issues for college educators*. Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Emery, S., & Alagic, M. (2001, October). *They are not getting it! What do I do now? Remediate, compensate, or punt?* Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Reynolds, K., Alagic, M., & Witherspoon, T. (2001, October). *Standards-based teaching using Kidspiration*. Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Witherspoon, T., Reynolds, K., & Alagic, M. (2001, October). *Mathematical eyes on robotics*. Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Alagic, M. (2000, July). *Geometric thought and spatial reasoning: Implications for classroom teaching*. Paper presented at the IMECT 2 - International Mathematics Enrichment and Communication Technologies Conference, University of Cambridge, Cambridge, England. (International)
- Alagic, M. (2000, July). *NCTM standards 2000 and role of visualization in learning*. Workshop presented at the conference BRIDGES: Mathematical Connections in Art, Music, and Science, Winfield, Kansas. (International; invited)
- Alagic, M., & Bolick, M. (2000, July). *Mission mathematics/science: A conceptual change model for teaching mathematics*. Paper presented at the IMECT 2 - International Mathematics Enrichment and Communication Technologies Conference, University of Cambridge, Cambridge, England. (International)
- Bolick, M., & Alagic, M. (2000, January). *Triangles and water: Structure and properties*. Paper presented at the Association for Science Education Annual Meeting (international session),

- The University of Leeds, England. (International)
- Bolick, M. & Alagic, M. (2000, January). *Pre-service teacher's beliefs about teaching and learning mathematics and science: Mirrors into our practice as teacher educators*. Paper presented at the Association for Science Education Annual Meeting (international session), The University of Leeds, England. (International)
- Yeotis, G. C., Bolick, M., & Alagic, M. (2000, April). *STAMPEDE: Science, technology and mathematics - propelling education directives toward excellence*. Paper presented at the National Science Teachers Association Conference, Orlando, Florida. (National)
- Alagic, M. (2000, March). *Let's read mathematics - let's math reading*. Workshop conducted for Title I teachers, Wichita State University, KS. (State; invited)
- Alagic, M., & Bolick, M. (2000, March). *Mission mathematics/science: A conceptual change model for teaching mathematics*. Paper presented at Expanding Your Horizons – EYH 2000, Emporia State University, KS. (State; invited)
- Neal, S., & Alagic, M. (2000, October). *Opening your geometric eyes*. Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Alagic, M., & Bolick, M. (2000, October). *Mission mathematics/science: Covering airplanes*. Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Alagic, M., & Bolick, M. (2000, October). *Scientific literacy: Let's read math – let's math reading*. Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Yeotis, G. C., Bolick, M., & Alagic, M. (2000, April). *Coasting along with science and mathematics*. Presentation at the Kansas Association of Teachers of Science Camp, Rocksprings, KS. (State)
- Bolick, M. & Alagic, M. (December 1999) *Preservice teacher's beliefs about teaching and learning mathematics and science: A mirror into our practice as teacher educators*. AARE Annual Conference, Melbourne, Australia. Abstract: <http://www.aare.edu.au/99pap/abs99.htm>

Editorial Review Boards/ Program Committees

Member of the Editorial Board

- Journal of Interactive Learning Research~ <http://www.aace.org/pubs/jilr/board.cfm>
- The International Electronic Journal of Mathematics Education (IEJME)~<http://www.iejme.com>
- Journal of Interactive Learning Research: <http://www.aace.org/pubs/jilr/board.cfm>

Bridges: Mathematical Connections in Art, Music, and Science Conference (Program Committee)
<http://www.sckans.edu/~bridges/organizers.html>

E-Learn Program Committee (World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education)
<http://www.aace.org/conf/eLearn/committees/index.cfm>

Professional Organizations (reviewer for conferences and journals)

American Educational Research Association (AERA)

National Council of Teachers of mathematics (NCTM)

Mathematical American Association (MAA)

Human dignity and Humiliation Studies - Global Advisory Board member