

CURRICULUM VITA

Mary K. Kelly, Ph.D.

Associate Professor, Department of Teacher Education
University of Dayton
300 College Park
Dayton, OH 45469-2966

Education

Ph.D., Educational Administration, Miami University, Oxford, OH, 2001.

Recipient: Graduate Research Assistantship (1996-2000)

M.Ed., Curriculum and Teacher Leadership, Miami University, 1996.

Recipient: Graduate Research Assistantship (1995-96)

B.S., Secondary Life Science Education and Middle School Science Education, University of Minnesota, Minneapolis, MN, 1990.

Recipient: Paul Douglas Teaching Scholarship Award (1988-1990)

B.A., Biology, Minor in Chemistry, College of St. Benedict, St. Joseph, MN, 1987.

Recipient: Presidential Scholarship Award (1984-86) and Academic Scholarship Award (1983-87)

Teaching Experience

POST-SECONDARY

Associate Professor, Department of Teacher Education, University of Dayton, 2011-present

Program Coordinator

Pre-Kindergarten to Grade 5 Program

Adolescent to Young Adult Science Teaching Concentrations Program

Middle Childhood Post-Baccalaureate Initial License Program

Integrated Learning Living Community 1st Year Experience: Curiosity in the Classroom: Teaching Children the Way Things Work

Courses Taught

Developmentally Appropriate Practices in Science for Early Childhood

Science Methods for Adolescent to Young Adults

Science for 4th and 5th Grades

Science Methods for Middle Childhood

The Middle School: Principles and Practices

Supervision of Student Teaching

Assistant Professor, Department of Teacher Education, University of Dayton, 2005-2011

Program Coordinator

Middle Childhood Post-Baccalaureate Initial License Program

Courses Taught

Developmentally Appropriate Practices in Science for Early Childhood

Science Methods for Middle and Adolescent Young Adults

Science Methods for Middle Childhood

The Middle School: Principles and Practices

Supervision of Student Teaching

Visiting Professor, Department of Teacher Education, Miami University, 2004, *Teaching Science in Early Childhood*

Field Supervisor, Department of Teacher Education, Miami University, 2004, Middle Childhood and Adolescent/Young Adult Science Student Teachers

Visiting Professor, Department of Educational Leadership, Miami University, 2001-2002, *Teacher Leader* (Middle Childhood Education Cohort)

K-12

Middle School Science Teacher, Frances M. Grass Middle School, Independent School District 197, West St. Paul, MN,

Teaching Licenses

Life Science, Grades 7-12, State of Minnesota (expired)

Middle School Science, Grades 5-9, State of Minnesota (expired)

Grants

Ohio Board of Regents, College Ready STEM Demonstration Grant, *The ACCESS Impact Study* (Co-principal investigator with Shauna M. Adams and Joni L. Baldwin) Total Grant: \$975,000; ACCESS allocation: \$35,000, 2010

University of Dayton Research Fellows Grant, *Understanding Development of Pedagogical Content Knowledge for Science among Pre-service Teachers* (Principal Investigator) \$1500, 2009-2010

University of Dayton, Habits of Inquiry Provost Grant, *Making Inquiry a Habit in the Physical Sciences*, (Co-Principal Investigator with Todd Smith, Said Elhamri, John Birch, & Lynne Erdei) \$5,200, 2008-09

West Ohio Center for Excellence in Science and Mathematics Education (WeExcel) *A Study of the Effect on Content Knowledge and Attitudes Towards Teaching Science when Using Content-Specific Best Practices in a Science Content Course* (Co-Principal Investigator with Todd Smith & Said Elhamri) \$9,280, 2008

University of Dayton, Living Learning Community Program, *Curiosity in the Classroom*, (Program Coordinator: Todd Smith, Role: Program Advisor) \$11,844; 2007-10

University of Dayton, Center for Catholic Education, *Making Connections in Science Education: Developing Collaborative Partnerships for the Enrichment of Science Teaching and Learning*, Principal Investigator, \$2,525, 2007-08

University of Dayton, Center for Catholic Education, *Synergism in Science Education: Partnering Teachers and Pre-Service Teachers to Enhance Teaching and Learning* (\$2,500, Mary Ellen Dillon, PI) Evaluator, 2006-07

Research Experience

Preparing Early and Middle Childhood Teachers for Teaching Science: A Study of the Development of Pedagogical Content Knowledge for Teaching Science to Children, Principal investigator with Todd Smith (Physics), University of Dayton, 2005 to on-going

Collaborative Partnerships as a Means of Improving Science Teaching and Learning, Investigator and Evaluator with Mary Ellen Dillon (Biology), University of Dayton, 2005-2008

Evaluation and Assessment Center, Miami University, Senior Researcher, 2002-2005

- Project Director for evaluations of the following programs and projects:
 - OSCI 7-10: Meeting the Challenge
 - Ohio Resource Center for Mathematics, Science, and Reading (ORC)
 - Northeast Ohio Center for Excellence in Mathematics and Science Education
 - Kamehameha Schools (HI) *Physics First* Program
 - *Discovery Model* Schools Program
 - Needs Assessment for the ORC
- Maintain regular communication with clients. Develop scope of work, budgets, IRB protocols, and contracts for projects. Negotiate budgets. Plan evaluation designs. Conduct research. Write reports. Prepare scholarly papers for presentations and publications as well as brochures for school personnel and legislators. Ensure

completion of projects in timely manner and within budget.

- Collaborate with researchers from other universities and centers on the development and implementation of research and evaluation projects.
- Develop proposals for external funding.
- Supervise the work of consultants, undergraduate, and graduate students.

Ohio Systemic Initiative-*Discovery*, Consultant, 2001-2002

- Collaborated with various organizations and individuals in the development and writing of proposals for external funding from the Ohio Board of Regents, the Ohio Resource Center for Mathematics, Science and Reading, the National Board of Professional Teaching Standards, and the National Science Foundation.

Bridging the Gap: Equity in Systemic Reform, Graduate Research Assistant, (Dr. Jane Butler Kahle, National Science Foundation Grant No. REC 9602137), 1996-2001

- Assisted in the execution of multi-level study, funded by NSF, designed to assess the progress toward equity of science and mathematics education reform efforts in Ohio. Project was an extension of Ohio's statewide systemic initiative.
- Developed profiles to select sites for in-depth case studies. Conducted site visits to urban and rural schools.
- Coordinated qualitative research efforts among case study sites, working collaboratively with site researchers. Maintained qualitative data archive.
- Collected qualitative data for case study through interviews, classroom observations, and collection of documents over three school years.
- Analyzed qualitative data using NUDIST software.
- Designed, collected data, and analyzed sub-study comparing student achievement by two different test formats: performance (using TIMSS performance assessment items) and paper-and-pencil assessments designed to parallel the TIMSS items.
- Collaborated with other researchers to document and report findings.
- Collaboratively developed student achievement and attitudinal instruments.
- Supervised the work of undergraduate and graduate students.

Principals' Institute, Graduate Research Assistant, Ohio Systemic Initiative-*Discovery* and Department of Educational Leadership, 1997-98

- Collaboratively designed a professional development institute for school principals to acquaint them with inquiry teaching methods, the science and mathematics education state and national standards, and cognitive coaching practices. The program developed was replicated at sites across the state.
- Analyzed the results of the participant evaluations of the pilot institute.

National Science Education Standards Curriculum Inventory, Graduate Research Assistant, Ohio Systemic Initiative-*Discovery*, 1996-97

- Inventoried commercial and NSF supported secondary science curricula with regards to the National Science Education Standards.
- Co-authored a manual for education professionals to access and use the on-line curriculum inventory.

Curriculum and Teacher Leadership Degree Program Evaluation, Department of Educational Leadership, Spring 1997

- Collaboratively designed a program evaluation for the Curriculum and Teacher Leadership Master's Degree program.

- Collaboratively conducted the evaluation by designing a survey for program students and graduates, and by collecting, organizing, and analyzing data gathered for the review process.

Discovery, Ohio's Statewide Systemic Initiative in Science and Mathematics, Graduate Research Assistant (Dr. Jane Butler Kahle, National Science Foundation Grant No. OSR 92500), June 1995-96

- Assisted in the execution of multi-faceted reform effort, funded jointly by NSF and the State of Ohio, focused on improving science and mathematics teaching and learning by providing sustained professional development for middle level science and mathematics teachers.
- Assisted instructors in conducting a Resource Teacher Institute for science and mathematics teachers who were involved in reform-based teaching practices. The program assisted teachers in developing inquiry-based professional development experiences for their colleagues.
- Assisted in the analysis of questionnaire data completed by principals whose science and/or mathematics faculty had participated in reform-based professional development experiences.
- Inventoried and catalogued OSI-*Discovery's* extensive science and mathematics curriculum library.

Scholarly Work

Books

Adams, S. M., Baldwin, J. L., Comingore, J. L., & **Kelly, M. K.** (2013). *The ACCESS curriculum: Intentional, integrated and inquiry-based for ages infancy through grade five*. Exlibris, LLC

Baldwin, J. L., Comingore, J. L., Adams, S. M., **Kelly, M. K.** & Smith, D. J. (Eds.) (2012). *ACCESS to science for infants and toddlers*. Exlibris, LLC

REFEREED JOURNAL ARTICLES

Nenonene, R., Gallagher, C., **Kelly, M.K.** & Collopy, R. (2019). Challenges and opportunities of infusing social, emotional and cultural competencies into teacher preparation: One program's story. *Teacher Education Quarterly*, 46(4), 92-115.

Evans, L. A., **Kelly, M. K.**, Baldwin, J. L., & Arnold, J. M. (2016). Candidate success and edTPA: Looking at the data. *Mid-western educational researcher*, 28(2), 148-160.

Baldwin, J. L., **Kelly, M. K.**, Lewellyn, B., Frank, D., & Adams, S. M., (2009). Integrated curriculum in a standards-based world: Teaching the next generation of teachers to integrate the curriculum. *Academe, Journal of Leadership and Management in Higher Education* 1(2), 61-70.

Baldwin, J. L., Adams, S. M., & **Kelly, M. K.**, (2009). Science at the Center: An Emergent, Standards-Based, Child-Centered Framework for Early Learners. *Early Childhood Education Journal*, 37(1), 71-77. Also, published online: May 7, 2009.

Boone, W. J., Metcalf, K. K., Paul, K. M., Lotter, C., & **Kelly, M. K.** (2009). Science and mathematics instructional time in an urban setting: Differences and similarities among private and public schools. *Journal of Women and Minorities in Science and Engineering*, 15, 343-355.

Collopy, R. B., & **Kelly, M. K.**, (2009). Answering the Mandate and Then Some: Lessons learned from embedding value-added outcomes in the teacher licensure curriculum. *Ohio Journal of Teacher Education*, 22(2), 32-40.

Kahle, J. B., & **Kelly, M. K.** (2001). Equity in reform: Case studies of five middle schools involved in systemic reform. *Journal of Women and Minorities in Science and Engineering*,

PEER-REVIEWED CONFERENCE PROCEEDINGS

Evans, L. A., & **Kelly, M. K.**, & Baldwin, J. L. (2015). *Adjusting our structure with teacher candidate success at the forefront: An exploration of an early childhood assignment and alignment with edTPA*. Proceedings of the Action Research Network of the Americas 2015 Conference.

EDITOR-REVIEWED JOURNAL ARTICLE

Kelly, M. K., (2008). Making connections: A school-university partnership to support science teaching and learning. *Momentum*, 39, 1 62-65.

BOOK CHAPTER/ENCYCLOPEDIA ENTRIES

Kelly, M. K., (2010). Middle school. In T. C. Hunt, J. C. Carper, T. J. Lasley, II, & C. D. Raisch, (Eds.) *Encyclopedia of Reform and Dissent* (Vol 2. pp. 559-562). Thousand Oaks, CA: Sage.

Kelly, M. K., (2010). Paideia proposal. In T. C. Hunt, J. C. Carper, T. J. Lasley, II, & C. D. Raisch, (Eds.) *Encyclopedia of Reform and Dissent* (Vol 2. pp. 683-685). Thousand Oaks, CA: Sage.

Kahle, J. B., & **Kelly, M. K.** (2001). Science teacher professional development: A researcher's perspective. In J. Rhoton & P. Bowers (Eds.), *Professional development: Planning and design* (pp. 101-113). Arlington, VA: National Science Education Leadership Association and National Science Teachers Association.

BOOK REVIEW

Kelly, M. K. (2007). Book review: Meaningful urban education reform: Confronting the learning crisis in mathematics and science by K. M. Borman & Associates. *International Journal of Science Education*, 29, 1059-1064.

REVIEWED ELECTRONIC PUBLICATIONS

Kelly, M. K., & Kahle, J. B. (2005). *The evidence base for science education: Science inquiry*. Columbus, OH: Ohio Department of Education, Available at http://ims.ode.state.oh.us/ode/ims/rtr/research/Topic_Science.asp

Kahle, J. B., & **Kelly, M. K.** (2005). *The evidence base for science education: Equity in science education*. Columbus, OH: Ohio Department of Education, Available at http://ims.ode.state.oh.us/ode/ims/rtr/research/Topic_Science.asp

SCHOLARLY ACADEMIC PROJECT

Collopy, R. M. B., Kelly, M. K., & Lewellyn, B. A. (2007). Data for school improvement on-line modules. University of Dayton

PROCEEDINGS

Kelly, M. K., & DeLoach Johnson, I. (Eds.). (2003). *Proceedings of Ohio's Invitational Conference: Narrowing Achievement Gaps*. Oxford, OH: Miami University.

ERIC DOCUMENTS

Kahle, J. B. & **Kelly, M. K.** (Eds.) (1999). *Pathways to systemic reform: Case studies of Ohio Schools*. Oxford, OH: Miami University, Ohio Systemic Initiative. (ERIC Document Reproduction Service 435 550)

Kahle, J. B., Scantlebury, K. C., Damjanovic, A., & **Kelly, M. K.** (1999). Steele Middle School: "The best education for the best is the best education for all." In J. B. Kahle & **M. K. Kelly**, (Eds.), *Pathways to systemic reform: Case studies of Ohio Schools*. Oxford, OH: Miami University, Ohio Systemic Initiative. (ERIC Document Reproduction Service 435 550)

Kelly, M. K. (1997). Anderson Junior High School. In J. B. Kahle, K. Tobin, & S. R. Rogg (Eds.), *Impressions of reform in Ohio schools*. Oxford, OH: Miami University, Ohio Systemic Initiative. (ERIC Document Reproduction Service No. ED 425 544)

Kelly, M. K. (1997). Peterson Middle School. In J. B. Kahle, K. Tobin, & S. R. Rogg (Eds.), *Impressions of reform in Ohio schools*. Oxford, OH: Miami University, Ohio Systemic Initiative. (ERIC Document Reproduction Service No. ED 425 544)

EVALUATION REPORTS

Kahle, J. B. & **Kelly, M. K.** (2006). *Kamehameha report- Year 2*. Oxford, OH: Miami University, Ohio's Evaluation & Assessment Center for Mathematics and Science Education.

Kelly, M. K., & Kahle, J. B. (2005). *Kamehameha report- Year 1*. Oxford, OH: Miami University, Ohio's Evaluation & Assessment Center for Mathematics and Science Education.

Kelly, M. K., & Kahle, J. B. (2005). *Evaluation of NEOCEX (Northeast Ohio Center of Excellence in Science and Mathematics Education)*. Oxford, OH: Miami University, Ohio's Evaluation & Assessment Center for Mathematics and Science Education.

Kahle, J. B., **Kelly, M. K.,** & Cassedy, A. E. (2004). *Ohio Resource Center for Mathematics, Science and Reading: External evaluation*. Oxford, OH: Miami University, Ohio's Evaluation & Assessment Center for Mathematics and Science Education.

Presentations

NATIONAL & INTERNATIONAL, PEER-REVIEWED CONFERENCES

*Starred papers are published in conference proceedings.

Evans, L. A., & **Kelly, M. K.** (2017, June). *Stories from the field: Implications of quality teaching in an age of teacher evaluation*. Roundtable session presented at the annual meeting of the National Association of Early Childhood Educators, San Francisco, CA.

Kelly, M. K., & Evans, L. A. (2016, January). *Teacher candidate performance assessment: How is edTPA shaping teacher education?* Hawaii International Conference on Education, Honolulu, HI.

Evans, L. A., & **Kelly, M. K.** (2015, May). *Adjusting our structure with student success at the forefront: An exploration of an early childhood assignment and alignment with edTPA*. Action Research Network of the Americas, Toronto, Canada.

Evans, L. A., Baldwin, J., Arnold, J., & **Kelly, M. K.** (2015, February). *Student success and edTPA: Looking at the data*. American Association of Colleges of Teacher Education, Atlanta, GA.

Baldwin, J., Adams, S., & **Kelly, M. K.** (2014, June). *Science at the center: connecting early learning standards using an emergent, child-centered, inquiry-based teaching philosophy*. National Association for the Education of Young Children, Minneapolis, MN.

Yacovoni, E., & **Kelly, M. K.** (2014, May). *Will it stand? Seventh-graders locate an oceanfront home*. National Science Teachers Association STEM Forum and Expo, New Orleans, LA.

Kelly, M. K., Adams, S. M., & Baldwin, J. L. (2011, October). *Increasing instructional time for science through integration of literacy and science: A framework for planning*. National Science Teachers Association, Hartford CT.

Adams, S.M., Baldwin, J., Comingore, J., & **Kelly, M.K.** (2011, June). *Connecting Assessment and Content Standards to an Emergent, Child-Centered, Inquiry-based Teaching Philosophy: The ACCESS Curriculum Framework*. National Institute for Early Childhood Professional Development for the National Association for the Education of Young Children. Providence, RI.

Baldwin J. L., Adams, S. M., & **Kelly M. K.** (2010, November). *Facilitating the Change: Modeling Integrated Programming In ECSE Classrooms through the use of Student Interns*. Council for Exceptional Children, Teacher Education Division, St. Louis, MO.

Kelly, M. K., Smith, T. B., & Basista, B. (2010, March). *NARST: Fostering the Development of PCK in Physics* National Science Teachers Association, Philadelphia, PA. (Paper invited to represent the National Association of Research in Science Teaching at NSTA)

Baldwin, J. L., Adams, S. M., Comingore, J., Smith, D., & **Kelly, M. K.,** (2009, November). *Implementing a curriculum framework that connects assessment and content standards to an emergent, child-centered, investigative philosophy*. National Association for the

Education of Young Children, Washington, D.C. (conference organizers requested a 3 hour workshop)

Kelly, M. K., Smith, T. B., & Pair, D. L. (2009, September). *Curiosity in the classroom: An integrated learning living community*. Lilly Conference for College and University Teaching And Learning, Traverse City, MI.

***Kelly, M. K.,** Smith, T. B., & Basista, B. (2009, April). *Fostering Pre-service Teachers' Development of Pedagogical Content Knowledge in Physics* National Association for Research in Science Teaching, Garden Grove, CA.

Kelly, M. K., Adams, S. M. & Comingore, J. L. (2009, March). *Guiding Pre-Service Teachers' Development of Meaningful Science Investigations for Preschool*. National Science Teacher Association, New Orleans, LA.

Smith, T. B., **Kelly, M. K.,** & Basista, B. (2008, July). *Using content-specific best practices in a science course for teachers*. American Association of Physics Teachers, Edmunton, Alberta, Canada.

***Kelly, M. K.,** (2008, January). *Developing classroom experiences for middle level pre-service science teachers: Building a community of practice*. Association for Science Teacher Education, St. Louis, MO.

*Smith, T. B., & **Kelly, M. K.,** (2008, January). *Owning the course: Improving pre-service science teacher preparation in physics*. Association for Science Teacher Education, St. Louis, MO.

Kelly, M. K., & Mathes, C. R. (2007, February). *Program improvement: A framework for making decisions based on data*. National Middle School Association's Symposium on Middle Level Teacher Preparation, Destin, FL.

Kelly, M. K., & Cassedy, A. E. (2006, April). *Student Achievement: What Can Student Achievement Scores Tell Us About Physics First?* National Association of Research in Science Teaching, San Francisco, CA.

Kelly, M. K., & Cassedy, A. E. (2004, April). *Electronic instructional media use among science teachers: Does teachers' use of technology effect planning and instruction?* National Association of Research in Science Teaching, Vancouver, BC, Canada.

Kelly, M. K., & Cassedy, A. E. (2004, April). *The effect of electronic instructional resources on teachers' use of technology in planning and instruction*. American Educational Research Association, San Diego, CA.

Kelly, M. K., & Damjanovic, A. (2003, March). *Beyond the classroom: How does science education reform at the school level impact movement toward equitable practices?* National Association of Research in Science Teaching, Philadelphia, PA.

Damjanovic, A., McCollum, T., & **Kelly, M. K.** (2003, March). *Miami model schools: An evaluation of two years of whole-school, teacher-led change in mathematics and science instruction*. National Association of Research in Science Teaching, Philadelphia, PA.

Kappler, K., **Kelly, M. K.,** Wachenheim, K., McCalmont, L., Lentz, M., Webster, J., Slaughter, K., Kreidenweis, K. (2002, October.) *Combined forces: Preservice teachers and faculty authentically deliberate curriculum*. Journal of Curriculum Theory's Conference on Curriculum Theory and Classroom Practice, Dayton, OH.

Kelly, M. K., & Kahle, J. B. (2002, January). *Progress toward equitable systemic reform in five urban middle schools*. Association for Educators of Teachers in Science, Charlotte, NC.

Kahle, J. B., & **Kelly, M. K.** (2000, April). *Equity in reform: Case studies of five middle schools involved in systemic reform*. National Association of Research in Science Teaching, New Orleans, LA.

Kelly, M. K., & Kahle, J. B. (2000, April). *Science education reform and school-level reform efforts in one urban middle school*. National Association of Research in Science Teaching, New Orleans, LA.

Kelly, M. K., & Kahle, J. B. (2000, April). *The contributions of school-level reform efforts to the progress of science reform: The case of one urban middle school*. American Educational Research Association, New Orleans, LA.

Kahle, J. B., Scantlebury, K., Damnjanovic, A., & **Kelly, M. K.** (1999, April). *Steele Middle School: "The best education for the best is the best education for all."* American Educational Research Association, Montreal, Quebec, Canada.

Kelly, M. K. (1999, March). *TIMSS performance assessment student interviews*. National Science Teachers Association, Boston, MA.

Kelly, M. K., & Kahle, J. B. (1999, March). *A comparison of student achievement on performance and paper-and-pencil assessment tasks*. National Association of Research in Science Teaching, Boston, MA.

Kelly, M. K., Kahle, J. B., & Scantlebury, K. (1999, January). *Performance assessment as a tool to enhance teacher understanding of student conceptions of science*. Association for Educators of Teachers in Science, Austin, TX.

Goodell, J. E., **Kelly, M. K.,** Damnjanovic, A., & Kahle, J. B. (1997, March). *Classroom factors associated with systemic reform in science and mathematics education*. National Association of Research in Science Teaching, Chicago, IL.

STATE & REGIONAL, PEER-REVIEWED CONFERENCES

Nenonene, R., Gallagher, C., Collopy, R., & **Kelly, M.K.** (2018, November). *The faculty perspective: Embedding social-emotional learning into teacher preparation*. Ohio Confederation of Teacher Education Organizations, Columbus, OH.

Collopy, R. B., & **Kelly, M. K.** (2008, April). *Adding value-added outcomes to the teacher licensure curriculum: The University of Dayton's approach*. Ohio Confederation of Teacher Education Organizations, Columbus, OH

STATE AND LOCAL CONFERENCES

Gallagher, Colleen, E., Collopy, Rachel, M. B., Nenonene, R., L., & **Kelly, M. K.** (2020, January). *Social and emotional learning: Educating the whole person in the university classroom*. University of Dayton 3rd Annual Learning & Teaching Forum, Dayton, OH.

Kelly, M. K., & Smith, T. B. (2009, October). *A window into science teacher development at UD*. Building a Research Community Day, University of Dayton, Dayton, OH.

Kelly, M. K., Smith, T. B., Elhamri, S., & Basista, B. (2009, June). *WeExcel mini-grant: Understanding the effects of a physics course on pre-service teachers*. West Ohio Center for Excellence in Science and Mathematics Education, Dayton, OH.

Smith, T. B., **Kelly, M. K.,** & Basista, B. (2008, October). *Changing student's attitudes in a physics course for teacher*. Ohio Section of the American Physical Society and the American Association of Physics Teachers, Wright State University, Dayton, OH.

Kelly, M. K., Dillion, M. E., Stinger, E., & Cordonnier, M. (2007, October). *Making connections in science education: Developing collaborative partnerships for the enrichment of science teaching and learning*. Ohio Catholic Education Association Conference, Cincinnati, OH.

Kelly, M. K., & Young, D. (2004, October). *Science achievement at Kamehameha Schools: What can we learn from TIMSS performance assessment?* Kamehameha Schools 2004 Research Conference on Hawaiian Well-being, Hilo, HI.

Kelly, M. K. (1999, April). *Comparing student science performance across three assessment formats*. Graduate Student Leadership Conference, Miami University, Oxford, OH.

Kelly, M. K. (1997, February). *Teacher perceptions of the implementation of a mandatory statewide science proficiency test*. Institute for Educational Renewal's Linking Conference, Cincinnati, OH.

INVITED PRESENTATIONS

Collopy, R. B., **Kelly, M. K.** & Kinnucan-Welsch, K. (2008, April). *Adding Value-Added outcomes to the teacher licensure curriculum: The University of Dayton's approach*. University of Dayton, School of Education and Allied Professions Board of Trustees, Dayton, OH

Kelly, M. K. (2004, November). *Evaluation in paradise: Using TIMSS performance assessments to monitor science achievement at Kamehameha Schools*. Seminar, Indiana University-Bloomington.

Kelly, M. K. (2004, May). *TIMSS performance assessments: Administration and scoring*. Seminar, University of Hawaii-Manoa.

Kelly, M. K., & Kahle, J. B. (2000, July). *Progress toward equitable, systemic science education reform: The synergy among science education and school-level reforms*. Model Schools Institute, OSI-Discovery, Miami University, Oxford, OH.

WORKSHOPS PRESENTED

Kelly, M. K., & Smith, T. B. (2010, May). *Solutions, Colloids, Suspensions, Oh My!!* Bombeck Family Learning Center, University of Dayton, Dayton, OH

Kelly, M. K., & Frank, D. (2007, July). *Think like a scientist*. Workshop for 2-5th grade teachers, Centerville Professional Development Institute. Centerville Public Schools, OH.

Kelly, M. K. (2004, May). *Introduction to TIMSS performance assessments*. Two workshops for science teachers, Kamehameha Schools Hawaii Campus and Kamehameha Schools Maui Campus.

Professional Memberships

National Science Teachers Association

Service

DEPARTMENT OF TEACHER EDUCATION

Pre-Kindergarten to Grade 5/Early Childhood Program Co-Coordinator	2022-present
Pre-Kindergarten to Grade 5/Early Childhood Program Coordinator	2016-2022
AYA Program Committee	2016-present
AYA Science Concentration Coordinator	2015-present
STEM Certificate Development & Coordinator	2012-present
MCE PBIL Program Coordinator	2005-2018
EDT Leadership Team/Chair's Council	2008-present
Early Childhood Senior Methods Block Committee	2005-present
Early Childhood Program Committee	2005-2006, 2009-2010, 2015-present
Initial Licensure Program Committee, Chair	2005-2018
Search Committee: Foundations Faculty	2017-2018
Search Committee Chair: Pre-K to 5 th Grade Generalist Clinical Faculty	2019
Search Committee: Foundations Faculty	2017-2019

Middle Childhood Program Committee	2005-2016
Middle Childhood Senior Methods Block Committee	2005-2016
Sabbatical Committee	2011-2015
Search Committee: STEM Technology Faculty	2013, 2016
Search Committee: EDT Department Chair	Fall 2011
Teacher Leader Endorsement Program Development Committee	Spring 2010
ECE Generalist Endorsement Program Development Committee	2009
Search Committee: MCE Literacy Specialist Faculty	2008-2009
Fourth Year/Benchmark Task Group	2005-2008
Search Committee: ECE Literacy Specialist Faculty	2006-2008
Administrative Team	2005-2007

SCHOOL OF EDUCATION AND HEALTH SCIENCES

Graduate Academic Affairs Committee	2022-present
SEHS Promotion and Tenure Committee	2018-2022
Subcommittee Chair	Fall 2018-Fall 2021
SEHS Representative HR Advisory Committee	2018-2019
Dayton Regional STEM Collaborative Representative	2015-2018
SEHS Executive Council	2012-2018
Search Committee, Associate Dean of SEHS	2015
Graduate Academic Affairs Committee, Chair	2012-2015
Woodrow Wilson Grant Planning Committee	2011
Marianist Education Consortium Summer Workshop Planning Committee	Spring 2010
Undergraduate Student Affairs Committee	2007-2014

UNIVERSITY OF DAYTON

Living Learning Community Co-Coordinator: <i>Teaching Children the Way Things Work: Curiosity in the Classroom</i>	2011-present
Common Academic Program Leadership Committee	2011-2017, Spring 2019
Academic Senate	2015-2018
Student Academic Policy Committee of the Academic Senate	2015-2018
Judicial Review Committee	2015-2018
Academic Senate Merit Review Working Group	Summer 2017-2018
Academic Senate Voting Rights Working Group, Co-chair	Summer-Fall 2016

Search Committee: University Honors Program Associate Director for Undergraduate Research	Fall 2010
New Student Orientation First Year Read	Fall 2010
NSF RET: Engineering Innovation and Design Consultant: Teacher and student recruitment	Spring 2010
Habits of Inquiry and Reflection Consultant: <i>Making Inquiry a Habit in the Physical Science</i>	2008-2009
Living Learning Community Advisor: <i>Teaching Children the Way Things Work: Curiosity in the Classroom</i>	2007-2011
Science Education for New Civic Engagements and Responsibilities (SENCER) Institute Representative from SOEAP	August 2007
Honors Thesis Co-Advisor, with Patricia Hart for Mary Gerstle	Winter 2007
2006 Ohio Space Grant Consortium Student Research Symposium: Attended symposium in Cleveland to support the presentation of UD Honor Student Kim Vogt	April 2006
Berry Scholar Interviews	Fall 2006
Student NSTA Chapter Co-Advisor with Kelly Bohner (Biology)	2005-2006

PROFESSIONAL COMMUNITY

Dayton Area Regional STEM Collaborative Member	2015-present
Outside Reviewer for Promotion and Tenure for Dr. Michelle Fleming, Wright State University	2015
Teacher Performance Assessment Grant, Teaching Event Critique Workshop, Wright State University	2009
Science Specialist Endorsement Drafting Writing Committee, Ohio Department of Education	2008
K-12 Science Consortium Planning Committee, EdVenture	2007
Science Specialist Endorsement Advisory Group, Ohio Department of Education	2006
Manuscript Reviews	
• <i>Journal of Women and Minorities in Science and Engineering</i>	2003
• <i>Journal of Research in Science Teaching</i>	2004
• Proposal Review, National Association of Research in Science Teaching Conference	

COMMUNITY

Co-chair, Awards Committee, Gymnastics Training Center of Ohio <i>Pinwheels & Cartwheels Gymnastics Meet raising money for CancerFree Kids foundation</i>	2014-present
House of Bread, volunteer	Summer, Fall 2016
Catholic School Partnership Program <i>Making Connections in Science Education: Developing Collaborative Partnerships for the Enrichment of Science Teaching and Learning</i>	2006-2008
Catholic School Partnership Program Evaluator <i>Synergism in Science Education: Partnering Teachers and Pre-Service Teachers to Enhance Teaching and Learning</i>	2005-2006

Classroom Volunteer (Ida Weller Elementary School), <i>Included the development and teaching of a standards-based, science lesson for 1st grade students.</i>	2006-2007
Classroom Volunteer (Centerville Kindergarten Village), <i>Included the assisting classroom teacher and working with students one day per month on a variety of lessons.</i>	2005-2006

Professional Development

- University of Dayton 3rd Annual Learning & Teaching Forum, Dayton, OH. January 2020
- Ohio Confederation of Teacher Education Organizations, Columbus, OH. November 2018
- Social-Emotional Dimension of Teaching and Learning/Culturally Responsive Teacher Educator Institute, Center for Reaching & Teaching the Whole Child, January 6-7, 2018 Los Altos, CA
- Social-Emotional Dimension of Teaching and Learning/Culturally Responsive Teacher Educator Institute, Center for Reaching & Teaching the Whole Child, July 9-12, 2017, Los Altos, CA
- National Association of Early Childhood Educators, San Francisco, CA. June 2017
- Generation Z Goes to College, SOCHE Presentation at WSU, March 17, 2017
- Participated in the Strategic Visioning Feedback Session, January 6, 2017
- Attended Leadership UD Associates presentation by Dr. Jason Reinhoehl, VP for Enrollment Management and shared learning with colleagues, November 17, 2016.
- Participated in the Inclusion & Diversity Listening Focus Group Conversation and shared learning with colleagues, November 16, 2016
- Participated in UD Visioning Day and shared learning with colleagues, October 6, 2016
- Participated in Effective Delegation Symposium sponsored by UD Center for Leadership, June 8, 2016 and shared learning with colleagues.
- Participated in LUD Associates book read of *Creativity Inc.* by Ed Catmull, June 1, 2016
- Visited Challenger Learning Center at Kiser Middle School to discuss possible future collaboration, May 26, 2016
- Attended Fostering Student Success Day and shared learning with colleagues, May 12, 2016
- Attended Ohio Council of Teacher Education Organizations (OCTEO) semi-annually in 2013-14, 2014-15, Fall 2015.
- Attended and presented at American Association of Colleges of Teacher Education, Atlanta, GA, 2015.
- Attended and presented at Action Research Network of the Americas, Toronto, Canada, 2015.
- Attended and presented at National Science Teachers Association STEM Forum and Expo, New Orleans, LA, 2014
- Leadership UD, 2012-13
- Participated in TPA Ohio Pilot Grading Workshop, Columbus, OH, April 2011
- Attended and presented at National Science Teachers Association, Philadelphia, PA, March 2010
- Attended and presented at National Association for the Education of Young Children, Washington, DC, November 2009
- Attended and presented at National Lilly Conference for College and University Teaching and Learning, Traverse City, MI, September 2009
- Participated in Teacher Performance Assessment Grant, Teaching Event Critique, June

2009 Workshop

- Participated in UD Research Fellows, Spring semester 2009
- Attended and presented at National Association for Research in Science Teaching International Conference, Garden Grove, CA, April 2009
- Attended and presented at National Science Teacher Association Conference, New Orleans, LA, March 2009
- Attended with methods students the Midwest Regional Conference of the National Science Teachers Association, Cincinnati, OH, December 2008
- Attended OCTEO Spring Conference, Columbus, OH, April 2008
- Attended Association Science Teacher Educators Conference, St. Louis, MO, January 2008
- Attended with methods students the Midwest Regional Conference of the National Science Teachers Association, Detroit, MI, October 2007
- Attended Ohio Catholic Education Association Conference, Cincinnati, OH, October 2007
- Attended Science Education for New Civic Engagements and Responsibilities (SENCER) Summer Institute, August 2007
- Attended Learning and Teaching Center Workshop series (4 sessions: 9/6/06, 9/20/06, 10/4/06, 10/18/06) "Library Research Strategies"
- Developed collaboration with College of Arts and Science faculty in Physics, Geology, and Biology by attending FES presentation *Teaching Environmental Issues by Inquiry* (10/27/05), OHEN meeting at Wright State University (10/28/05), and assisting as an evaluator on a Catholic Schools Partnership Grant
- Maintained collaboration with Ohio's Evaluation and Assessment Center for Mathematics and Science Education, Miami University by attending reception (9/2/05), and writing evaluation reports (Summer and Fall 2005).
- Attended Faculty Exchange Series (9/8/05) *A Conversation about Marianist Education*
- Attended Fr. James L. Heft, S.M. Lecture (9/20/05) *Creationism and Evolution*
- Attended Harassment Prevention Workshop (10/5/05), University of Dayton
- Attended Task Stream Training (10/5/05)
- Attended Learning and Teaching Center Workshop series (5 of 6 sessions: 10/5/05, 10/12/05, 10/19/05, 10/26/05, 11/9/05) "Using Technology"
- Assisted with the development and teaching of a standards-based, science lesson for kindergarten students at Centerville Kindergarten Village (April 2006)
- Attended National Association of Research in Science Teaching conference and presented a paper (4/4-7/06)
- Accompanied student to NASA Workshop Symposium, Glenn Research Center, Cleveland (4/21/06)