

Christine (Kit) Klein, Ph.D.

Director

Insight for Learning Practices LLC
314-504-1465 mobile
ckleinconsulting@gmail.com
InsightForLearningPractices.com

Education

- 1994 Washington University, St. Louis, Missouri
Ph.D. in Education
- 1987-1989 Southern Illinois University – Edwardsville, Edwardsville, Illinois
Postgraduate studies in Management Information Systems
- 1984-1986 University of Texas School of Public Health, Houston, Texas
Postgraduate studies in Human Ecology and Epidemiology
- 1983 George Williams College now Aurora University, Chicago, Illinois
Master of Science in Environmental Education and Interpretive Services Administration
- 1982 Texas Christian University, Fort Worth, Texas
Bachelor of Science in Environmental Science and secondary science teacher certification

Certifications

- New Games Leader (2019, no expiration)
- Mental Health First Aid USA through the National Council for Behavioral Health (2014-2017)
- Certified Grant Writer® through American Grant Writers Association (2011-2016)
- Texas Teacher Certification, Science, grades 6-12 (1982, no expiration)

Professional and Academic Experience

- 2016-present Director, Insight for Learning Practices LLC, Kirkwood, MO
- 2005-2016 Principal, Klein Consulting, Kirkwood, MO
- 2009 Contractor (writing and editing science and math test items), Scantron
- 2004-2005 Senior Research Scientist, St. Louis Center for Inquiry in Science Teaching and Learning, National Science Foundation grant to Washington University in St. Louis
- 2002-2004 Principal Investigator, St. Louis Center for Inquiry in Science Teaching and Learning, National Science Foundation grant to Washington University in St. Louis
- 2001-2004 Clinical Associate, Office of Field Experiences and Student Teacher Placement, Department of Education, Washington University in St. Louis
- 2001-2002 Principal Investigator, St. Louis Center for Learning and Teaching in Informal Settings, National Science Foundation grant to the St. Louis Science Center
- 1994-2001 Schools for Thought Researcher/Principal Investigator, St. Louis Science Center
- 1994 Educational Consultant, Electronic Outreach Project, St. Louis Science Center
- 1994 Consultant and Author, Science Adventures Packets, St. Louis Science Center
- 1994 Adjunct Faculty, Computer Science, Fontbonne University, St. Louis, MO
- 1993-1994 Outside Participant/Observer, Individual Dynamic Evaluation of Assessment to Learn Program, Danforth Foundation and Pattonville School District, St. Louis, MO
- 1992-1994 Visitor Studies Assistant, St. Louis Science Center
- 1992-1993 Teaching Assistant, Educational Psychology, Washington University in Saint Louis
- 1992-1993 Computer Instructor, Futurekids, Des Peres, MO
- 1990 Workplace Literacy Instructor, St. Louis Community College, St. Louis, MO
- 1987-1991 Information Systems Manager and Human Resources Director, Custom Automated Plastics Systems, Fenton, MO
- 1986-1987 Systems Analyst, Comprehensive Rehabilitation Center – Houston, TX
- 1983-1984 Earth/Life Science Teacher, Grades 6-8, Houston Independent School District, Houston, TX

Grant-funded Roles

- 2020-2023 External Evaluator, *Thriving Together*, Detroit Zoological Society, PI Diane Miller, IMLS # MA-245850-OMS-20.
- 2019-2023 Co-PI & Researcher, *Roads Taken: A Retrospective Study of Program Strategies and Long-term Impacts of Intensive, Multi-year, STEM Youth Programs*, COSI, PI Deborah Wasserman, NSF #1906396.
- 2019-2022 External Evaluator, Lemelson Early Inventor Prize Program at the Society for Science
- 2020 Co-PI & Conference Coordinator, *Mapping Connections Between STEM and Social-Emotional Development (SED): Innovating Assessment and Data Systems for Research and Practice*, PEAR, PI Gil Noam, NSF # 1940155.
- 2016-2019 External Evaluator, Advocate Grant Program at the Society for Science and the Public
- 2016-2017 Co-Principal Investigator, *Roads Taken – Long-term Impacts of STEM Youth Programs: Conference*, Association for Science-Technology Centers, PI Wendy Hancock, NSF #1644479
- 2014-2015 Researcher, St. Louis ArtWorks Program, St. Louis County's Children's Service Fund
- 2013-2014 External Evaluator, *Encouraging Women in STEM as a Career Choice: Innovative Methods in Promoting Climate, Weather, and Math Literacy to an all-Girl Middle School*, PI Timothy Eichler, St. Louis University President's Research Fund
- 2010-2013 External Evaluator and Researcher, *Community STEM Outreach Program*, St. Louis Science Center, PI Diane Miller, Office of Naval Research
- 2005-2009 External Evaluator, *Teenage Designers of Learning Places for Children*, St. Louis Science Center, PI Diane Miller, NSF #0515572
- 2002-2004 Principal Investigator and Project Director, *St. Louis Center for Inquiry in Science Teaching and Learning*, with Co-PIs B. Addelson, P. Balcerzak, J. Jordan, W Tate, Washington University in St. Louis, NSF # 0227619
- 2001-2002 Principal Investigator, *St. Louis Center for Learning and Teaching in Informal Settings*, St. Louis Science Center, NSF #0119750
- 1998-2001 Principal Investigator, *Schools for Thought Curriculum Development: Expanding our Capacity to Improve Student Learning*, St. Louis Science Center, James S. McDonnell Foundation
- 1997-2000 Co-PI, *Schools for Thought Summer Institute 1997*, with Co-PIs M. Keefer and S. Goldman, James S. McDonnell Foundation
- 1996-1999 Principal Investigator for no-cost extension, *Schools for Thought in St. Louis: A Model for Development and Dissemination*, with Co-PI's C. Valenta, C. Ward and A. Walker, St. Louis Science Center, James S. McDonnell Foundation
- 1995-1999 Principal Investigator for no-cost extension, *Schools for Thought*, St. Louis Science Center, James S. McDonnell Foundation

Publications and Articles

- Institute for the Study of Resilience in Youth (2021). *Hosting a virtual conference during the pandemic: Lessons learned*. McLean Hospital and Harvard Medical School.
- Klein, C. (2011) Plate tectonics. In Greenwald, S.J. & Thomley, J.E. (Eds) *The Encyclopedia of Mathematics and Society*. Pasadena, CA: Salem Press. 773-774.
- Klein, C. (2011) Water quality. In Greenwald, S.J. & Thomley, J.E. (Eds) *The Encyclopedia of Mathematics and Society*. Pasadena, CA: Salem Press. 1053-1054.
- Klein, C. & T. Stets (2008) Teens for Science! Changing community attitudes and afterschool, *The Afterschool Review*, No. 2, Spring 2008, 22-25.
- Allen, S., Gutwill, J., Perry, D. L., Garibay, C., Ellenbogen, K. E., Heimlich, J. E., Reich, C. A., & Klein, C. (2007) *Research in museums: Coping with complexity*. In Falk, J. H., Dierking, L. D.,

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- & Foutz, S. (Eds) In Principle, In Practice: Museums as Learning Institutions. Lanham, MD: AltaMira Press.
- Klein, C. (2006) Science teaching and learning through the zoo, aquarium, and botanical garden. In K. Tobin (Ed) Teaching and Learning Science: A Handbook, 365-376. Westport, CT: Praeger.
- Klein, C. (2002) Testing and the Museum-School Partnership. ASTC Dimensions. November/December 2002.
- Ash, D. & Klein, C. (2000) Inquiry in the informal learning environment. In Minstrell, J. & Van Zee, E. (Eds.) Inquiring into Inquiry Learning and Teaching in Science. Washington, DC: AAAS.
- Klein, C. (1998a) Putting theory into practice: Compton-Drew Investigative Learning Center. Journal of Museum Education. 23(2), 8-10.
- Klein, C. (1998b) Toward a new museum school. ASTC Newsletter. 26(2), 2-3.
- Hudgins, B.; Riesenmy, M.; Mitchell, S.; Klein, C.; Navarro, V. (1994) "Teaching Self-Direction to Enhance Children's Thinking in Physical Science," Journal of Educational Research, 88 (1), 15-27.

Evaluation Reports – Available Online

- Klein, C. & Tisdal, C. (2017) Summative Evaluation: Advocate Grant Program. Washington DC: Society for Science and the Public.
- Klein, C., Tisdal, C. & Hancock, W. (2017) Roads Taken Conference Report.
- Klein, C. and C. Tisdal (2013) Community STEM Outreach: Summative Evaluation, available at http://informalscience.org/evaluation/ic-000-000-008-506/Community_STEM_Outreach_:_Summative_Evaluation
- Klein, C. and C. Tisdal (2012) Community STEM Outreach: Second Annual Evaluation Report, available at http://informalscience.org/evaluation/ic-000-000-003-540/Community_STEM_Outreach_Second_Annual_Evaluation_Report
- Klein, C. (2010) Teenage Designers of Learning Places for Children: Summative Evaluation, available at <http://www.informalscience.org/teenage-designers-learning-places-children-summative-evaluation>

Presentations

- 2020 Panelist with D. Wasserman, N. Webster, and C. Tisdal, In prospect or retrospect: What can we learn about intensive STEM programs for youth?, Association of Science-Technology Centers Annual Conference, Virtual
- 2018 Panelist with R. Pickering and C. Tisdal, Using Evaluation to Elevate Visitor Experience, Oklahoma Museum Association, Edmond, OK
- 2009 Panelist with C. Tisdal, B. Shea and D. Miller, Evaluating Long-Term Youth Programs: It's a Whole Different Ballgame, Visitor Studies Association, St. Louis, MO
- 2005 Session Chair, Informal Learning Environments Research SIG Business Meeting and Invited Speaker, American Educational Research Association, Montreal, Quebec
- 2005 Discussant, Multiple Methods for Looking at Learning in Informal Contexts, American Educational Research Association, Montreal, Quebec
- 2005 co-author on paper presented by P. Balcerzak, with T. Astor-Jack & J. Confrey, Regional Professional Development Curriculum Research Summary, Association for the Education of Teachers of Science, Colorado Springs, CO
- 2004 Panelist with T. Astor-Jack, D. Lambing, L. Dierking, B. Beven & J. Confrey, Toward a More Useful Definition of Formal and Informal Learning, Association of Science-Technology Centers, San Jose, CA
- 2004 Co-presenter with L. Martin, S. His, D. Kanter, R. Smith & R. Duschl, Museum-School Collaborations Supporting Science Teachers, American Educational Research Association, San Diego, CA

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- 2003 Invited Session, Museum/School Collaborations, Association of Railway Museums, St. Louis, MO
- 2003 Session Chair, Informal Learning Environments Research Structured Poster Session, American Educational Research Association, Chicago, IL
- 2003 Session Chair, Where Do We Go From Here? The Future of Informal Learning Environments Research, American Educational Research Association, Chicago, IL
- 2002 Session Leader and co-presenter with L. Rankin, K. Ellenbogen, P. Balcerzak, What's Your Role in Learning & Teaching?: Creative Approaches to Professional Development. Association of Science-Technology Centers, Charlotte, NC
- 2002 Co-presenter with E. van Zee, D. Roberts, et al. Inquiring into One's Own Teaching Practices, pre-conference workshop facilitator National Association for Research in Science Teaching, New Orleans, LA
- 2002 Discussant, Informal Learning Environments Research Poster Fair, American Educational Research Association, New Orleans, LA
- 2002 Co-presenter with M. Finders, S. Abel, R. Rogers, P. Balcerzak, C. Easter, Doing Science Doing Literacy: The Multiple Discourses of Scientific Literacies, American Educational Research Association, New Orleans, LA
- 2001 Co-presenter with C. Garibay, E. Bailey and L. Beaumont. Museum-School Partnerships: Lessons from the Field. Panel presentation, American Association of Museums, St. Louis, MO
- 2001 Co-presenter with C. Howard, D. Russell and D. Sides. How Partnerships Enhance Constructivist Practices. Magnet Schools of America 19th Annual International Conference on Magnet Schools, St. Louis, MO
- 2001 Co-presenter with J. Corse, V. Grigsby, S. Hardin and C. Ward. A Museum School: Building Grounded Theory as Two Cultures Meet. American Educational Research Association, Seattle, WA
- 2001 Session presider and discussant. Recontextualizing Teacher Education: Research from Museums. National Association for Research in Science Teaching, St. Louis, MO
- 2001 Co-presenter with C. Anderson and D. Heil. Using Informal Science Resources in Your Community: Keys to Success. National Science Teachers Association, St. Louis, MO
- 2000 Co-presenter with J. Corse. Whose Question Is It Anyway? Association of Science-Technology Centers Annual Conference, Cleveland, OH
- 1999 Session Chair and organizer, Multiple Perspectives of Informal Learning Environment Research. American Educational Research Association, Montreal, Quebec
- 1999 Session Chair and co-presenter with D. Ash, C. Ward, and S. Reid. Lessons Learned on the Role of Researchers in the Classroom: Teacher, Administrator, and Researcher Perspectives from the Fostering Communities of Learners and Schools for Thought Projects. American Educational Research Association, Montreal, Quebec
- 1998 Co-presenter with F. Henderson. Schools for Thought. Independent Schools Association of the Central States/St. Louis Confederation of Independent Schools Annual Regional Conference, St. Louis, MO
- 1998 Session Chair and co-organizer. Informal Learning Environments Research from Multiple Perspectives and Settings. American Educational Research Association, San Diego, CA
- 1998 Co-presenter with M. Keefer. Reflecting on Teachers' Practice: Creating Cognitive Tools for Inquiry-Based Teaching. American Educational Research Association, San Diego, CA
- 1997 Session Chair and panelist with J. Corse, W. Jones (student), H. Hayden (student), and D. Washington (parent). Kids Talk: The Museum School from the Student's Perspectives. Association of Science-Technology Centers Annual Conference, St. Louis, MO
- 1997 Co-presenter with J. Corse. Inquiry in Action at a Museum School. Association of Science-Technology Centers Annual Conference, St. Louis, MO

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- 1997 Co-presenter and organizer with J. Corse. Museum Schools in Action: Symposium. Association of Science-Technology Centers Annual Conference, St. Louis, MO
- 1997 Panelist with T. Benedict, P. Dow, C. Lydon, and S. Takahisa. Museum School Partnerships - Models for the Future, Association of Science-Technology Centers Annual Conference, St. Louis, MO
- 1997 Co-presenter and organizer with C. Tisdal. Links Between Formal and Informal Learning Environments: A Research Agenda. Association of Science-Technology Centers Annual Conference, St. Louis, MO
- 1997 Co-presenter and organizer with C. Tisdal. Developing a Research Agenda to Examine Links Between Formal and Informal Learning Environments. American Educational Research Association, Chicago, IL
- 1996 Panelist with S. Allen, J. Esserman, L. Shore, and C. Tisdal. Constructivism: Theory into Practice. Association of Science-Technology Centers Annual Conference, Pittsburgh, PA
- 1996 Structured poster. Utilizing Community Resources: A Science Center/School Collaboration. American Educational Research Association, New York, NY
- 1996 Structured poster with E. Taylor and M. Lamon. Viral Invaders: A Complex Problem with an Interdisciplinary and Collaborative Solution. American Educational Research Association, New York, NY
- 1996 Co-presenter with K. Blanton. Integrating Science, Math and Technology Through the Schools For Thought Curriculum. National Science Teachers Association, St. Louis, MO
- 1996 Co-presenter with K. Blanton, J. Esserman, and R. Giesler. Connection and Collaboration: Bridging the Gapp Between Traditional and Informal Learning Environments. National Science Teachers Association, St. Louis, MO
- 1996 Co-presenter with K. Blanton, M. Lamon, C. Ward, and J. Williams. Schools For Thought at Mason Middle Investigative Learning Center. Association of Teacher Educators, St. Louis, MO
- 1995 Community Partnership Showcase presentation with M. Lamon. Building Learning Communities: The Schools For Thought Project. Association of Science-Technology Centers Annual Conference, San Diego, CA
- 1995 Panelist with B. Garner and K. Brown. Metability: The Dynamics of Individual and Systemic Change. International Conference on Teacher Research, Davis, CA
- 1995 Panelist with M. Lamon, C. Ward, J. Williams, and students from Mason ILC. Schools For Thought in St. Louis. Midwest Education and Technology Conference, St. Louis, MO
- 1993 Panelist with B. Garner, T. Morgan, S. Lee, M Tarlton, S. Nelson, and M. Hoekenga. Individual Dynamic Evaluation of Ability to Learn (I.D.E.A.L.). St. Louis Action Research Conference, St. Louis, MO

Navigating Evaluation Workshop Series – with Carey Tisdal – Spring 2018

- Navigating Evaluation: The Basics
- Navigating Evaluation: Basics for Administrators
- Navigating Exhibit Evaluation
- Navigating Program Evaluation
- Navigating Visitor Services Evaluation

Professional Organization Memberships

- American Association of Museums, 1999-present
- American Educational Research Association, 1994-2009
- American Grant Writers Association, 2010-2016
- Certified Grant Writer®, 2011-2016

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Evaluation Association of Saint Louis, 2018-present

Institute for Earth Education, 1983-present

National Association for Research in Science Teaching, 2000-2011

National Science Teachers Association, 1994-2004

Society of Children's Book Writers and Illustrators, 2009-2020

Offices Held in Professional Organizations

2006-2008 Treasurer, Informal Learning Environments Research Special Interest Group,
American Education Research Association

2004-2006 Chair, Informal Learning Environments Research Special Interest Group, American
Education Research Association

2002-2003 Program Chair, Informal Learning Environments Research Special Interest Group,
American Education Research Association

2000-2002 Co-Chair, Informal Learning Environments Research Special Interest Group,
American Education Research Association

1999-2000 Treasurer, Informal Learning Environments Research Special Interest Group,
American Education Research Association

1997-1998 Program Chair, Informal Learning Environments Research Special Interest Group,
American Education Research Association

1996 Co-Founder with D. Ash, Informal Learning Environments Research Special Interest Group,
American Education Research Association

1993-1994, Organizational Team Member, St. Louis Action Research Collaborative

Advisory Boards, Editorial Boards and Committees

2010-2014, Member, Advisory Board, Assessment Tools in Informal Science (ATIS) Website

2001-2004, Member, Grants Committee of the PTO, Robinson Elementary School

2001, Member, Kirkwood R-7 School District Strategic Planning Team for Strategy #6: Create a
culture that embraces diversity

1997-1998, Member, St. Louis Public Schools Task Force on Student Achievement

1993-1994, *Educational Researcher* Book Review Editorial Assistant, American Educational
Research Association