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EDUCATION

1968 - 1972	Harvard University, Social Psychology, B.A.
1974 - 1978	Stanford University, Developmental Psychology, Ph.D.
1978 - 1979	Harvard University, Postdoctoral Fellowship, School of Education (Cross-Cultural Field Research Methods)
1979 - 1980	Duke University, Postdoctoral Fellowship in Policy Studies

PROFESSIONAL EXPERIENCE

1972 - 1974	Researcher and Translator, Japan Research Institute (Nihon Sougou Kenkyuujo), Tokyo, Japan
1980 - 1981	AAAS Congressional Science Fellow, Legislative Staff to the Senate Subcommittee on Child and Human Development and to Senator Alan Cranston
1981 - 1988	Adjunct Assistant to Associate Professor and Research Psychologist, Departments of Pediatrics and Psychiatry, University of California, San Francisco

- 1988 - 1999 Director of Formative Research, Director of Research and Development, Developmental Studies Center, Oakland, CA
- 1999 - present Distinguished Research Scholar, Mills College School of Education

SELECTED HONORS AND GRANTS

- 2011 Grant from U.S. Department of Education (NCER-MS) 9/1/2011-8/31/2014. Title: Focused and Coherent Elementary Mathematics: Japanese Curriculum Resources for U.S. Teachers. (Principal Investigator, 3 year grant).
- 2011 Grant from U.S. Department of Education (NCER-MS) 9/1/2011-8/31/2014. Title: Japanese Structured Problem-Solving as a Resource for U.S. Teachers. (Principal Investigator, 3 year grant).
- 2012 Grant from Toyota Foundation. 4/1/2012-3/31/2014.m "Lesson Study: Development of a University-Regional Model" (Principal Investigator, 2 year grant).
- 2007 Grant from U.S. Department of Education (IES). "Improving the Mathematical Content Base of Lesson Study." (Principal Investigator, 4 year grant)
- 2007 National Science Foundation Grant. "Mathematics Teachers' On-the-Job Learning: A Synthesis of Research and Conceptual Frameworks" (Principal Investigator, 2 year grant)
- 2006 National Science Foundation Grant. "Building a Knowledge Base for Teaching: Design and Test of Research-based Toolkits for Mathematics Lesson Study" (Principal Investigator, 3 year grant)
- 2004 Selected as Reischauer Fellows Lecturer on Japanese Education. Stanford Program in International and Cross-Cultural Education, Stanford University, Video Distinguished Lecture Series.
- 2002 National Science Foundation Grant. "Lesson Study: Case Studies of an Emerging Reform." (Principal Investigator, 3 year grant)

- 2002 "Outstanding Academic Book Award" from the American Library's Association Choice for 2001, for the volume "Caring Classrooms / Intelligent Schools: the Social Emotional Education of Young Children."
- 1999 Distinguished Achievement Award, Association of Educational Publishers, for article "The Basics in Japan: The Three C's."
- 1998 National Science Foundation Grant. Spreading Inquiry-Based Science: Case Studies of Promising Models. (Principal Investigator, 3-year grant).
- 1996 MacArthur/Spencer Professional Development Research Grant: Educational Change and the Role of Teacher Community (Principal Investigator, 3-year grant).
- 1995 National Science Foundation Grant, Innovations in Science Education: Learning from Case Studies (Principal Investigator, 3-year grant).
- 1995 *Educating Hearts and Minds* chosen as an outstanding academic book of 1995, American Library Association's journal *Choice*.
- 1992 Abe Fellowship. Awarded by the Social Science Research Council, American Council of Learned Societies, and Center for Global Partnership. (2-year fellowship)
- 1991 Nippon Life Insurance Foundation Grant. Understanding Each Other's Educational Practice (3 years, Co-Principal Investigator).
- 1984 Award for Outstanding Research Article of 1984. Society of Comparative and International Educators.
- 1984 Greta Simpson Award (Department of Psychiatry), University of California, San Francisco.
- 1980 - 1981 Congressional Science Fellowship, American Association for the Advancement of Science.
- 1978 First Prize, Japanese Ministry of Education, International Speech Contest of Japanese as a Foreign Language.

SELECTED PUBLICATIONS

- 2015 Lewis, C. What is improvement science? Do we need it in education? *Educational Researcher*, 44:1, 54-61.
- 2015 Lewis, C., & Perry, R. (2015). A Randomized Trial of Lesson Study with Mathematical Resource Kits: Analysis of Impact on Teachers' Beliefs and Learning Community. In E. J. Cai & Middleton (Ed.), *Design, Results, and Implications of Large-Scale Studies in Mathematics Education*. New York: Springer, 133-155.
- 2015 Lewis, C. What have we learned about lesson study outside Japan? In I. Maitree & P. Wang-Iverson (Eds.), *Lesson study: Challenges in Mathematics Education*, World Scientific Publishing, 141-152.
- 2014 Lewis, C. How Do Japanese Teachers Improve their Instruction? Synergies of Lesson Study at the School, District and National Levels. Commissioned paper, Board on Science Education, National Academy of Sciences.
http://sites.nationalacademies.org/DBASSE/BOSE/DBASSE_084388
- 2014 Lewis, C., & Perry, R. Lesson study with mathematical resources: A sustainable model for locally-led teacher professional learning. *Mathematics Teacher Education and Development*, 16(1), 22-42.
- 2013 Lewis, C., & Takahashi, A. (2013). Facilitating curriculum reforms through lesson study. *International Journal for Lesson and Learning Studies*, 2(3), 207-217.
- 2013 Takahashi, A., Lewis, C., & Perry, R. (2013). A U.S. Lesson Study Network to Spread Teaching Through Problem-Solving. *International Journal for Lesson and Learning Studies*, 2(3), 237-255.
- 2013 Goldsmith, L. T., Doerr, H. M., & Lewis, C. C. (2013). Mathematics teachers' learning: A conceptual framework and synthesis of research. *Journal of Mathematics Teacher Education*, 16(4). doi: 10.1007/s10857-013-9245-4
- 2012 Lewis, C., Perry, R., Friedkin, S., Roth, J. (2012) Improving Teaching Does Improve Teachers: Evidence from Lesson Study. *Journal of Teacher Education*. 63: 5. 368-375. DOI: 10.1177/0022487112446633
- 2012 Lewis, C., Perry, R., Friedkin, S., Fisher, L., Disston, J., & Foster, D. (2012). Building Knowledge and Professional Community Through Lesson Study. In J. M. Bay-Williams & W. Speer (Eds.), *74th NCTM Yearbook (2012)*. 245-258. Reston, VA: National Council of Teachers of Mathematics.
- 2012 Lewis, C., Perry, R., & Friedkin, S. (2012). Using Japanese Curriculum Materials to Support Lesson Study Outside Japan: Toward Coherent Curriculum. *Japanese Journal of Educational Research*. 79
- 2011 Perry, R.R., and Lewis, C.C. (2011). Improving the Mathematical Content Base of Lesson Study Summary of Results

<http://www.lessonresearch.net/IESAbstract10.pdf>

- 2011 Lewis, C. & Hurd, J. *Lesson Study Step by Step: How Teacher Learning Communities Improve Instruction*. Portsmouth, NH: Heinemann.
- 2010 Lewis, C., Akita, K., & Sato, M. Lesson study as a human science. In W. Penuel & K. O'Connor (Eds.). *Learning research as a human science. National Society for the Study of Education Yearbook*. Volume 109 Issue 1, 222-237
- 2010 Lewis, C., & Baker, E. Action Research through the Lens of Lesson Study Catherine C. Lewis and Elizabeth Baker In R. Pelton, Ed., *Action Research for Teacher Candidates: Using Classroom Data to Enhance Instruction*. Lanham, MD: Rowman & Littlefield.
- 2010 Lewis, C.. A public proving ground for standards-based practice: Why we need it, what it might look like. *Education Week*. 30:3, September 10 (online) September 15 (paper), pages 28-30.
- 2009 Lewis, C., Perry, R., & Hurd, J. Improving mathematics instruction through lesson study: a theoretical model and North American case *Journal of Mathematics Teacher Education*, 12:4, 285-304. DOI 10.1007/s10857-009-9102-7.
- 2010 Perry, R. & Lewis, C. (2008 book accepted). Building demand for research through lesson study. In M. K. Stein & C. Coburn (Eds.) *Research and practice in education: Building alliances, bridging the divide*, 131-145. Lanham, MD: Rowman & Littlefield Publishing Group.
- 2009 Perry, R. & Lewis, C. What is successful adaptation of lesson study? *Journal of Educational Change*, 10: 4, 365-391.
- 2008 Zawojewski, J., Chamberlin, M., Hjalmarson, M., & Lewis, C. "Developing Design Studies in Mathematics Education Professional Development: Studying Teachers' Interpretive Systems." In Kelly, A. E., Lesh, R.A., & Baek, J.Y. (Eds.) *Handbook of Design Research Methods in Education*, 219-245.
- 2006 Lewis, C., Perry, R. & Murata, A. How Should Research Contribute to Instructional Improvement? The Case of Lesson Study. *Educational Researcher*, 35:3, 3-14.
- 2006 Lewis, C., Perry, R., Hurd, J., & O'Connell, M.P.). Lesson study comes of age in North America. *Phi Delta Kappan*, 88:4, 273-281.
- 2006 Lewis, C. Lesson study in North America: Progress and challenges. In M. Matoba & M.S. Arani, (Eds.), *Lesson study: International perspective on policy and practice*. Beijing: Education Science Publishing House, 7-36.
- 2005 Lewis, C. How do teachers learn during lesson study? In P. Wang-Iverson & M. Yoshida (Eds.) *Building our understanding of lesson study*. Philadelphia: Research for Better Schools, pp 77-84.

- 2004 Lewis, C., Perry, R. & Hurd, J. (2004). A deeper look at lesson study. *Educational Leadership*, 61:5, 18-23 Lewis, C., Perry, R. & Hurd, J. (2004). A deeper look at lesson study. *Educational Leadership*, 61:5, 18-23.
- 2004 Lewis, C. Lesson Study. In L.B. Easton (Ed.) *Powerful Designs for Professional Learning*. Oxford OH: National Staff Development Council.
- 2004 Lewis, C. What is a Science Text? In A. Peacock & A. Cleghorn (Eds.) *Missing the meaning: the development and use of print and non-print learning materials*. NY: Palgrave-Macmillan.
- 2004 Lewis, C. Japanese Educational Reform: Challenges and Puzzles for U.S. Educators. In R. Tsuneyoshi (Ed.) *Reconsidering Japanese Education: 21st Century Abilities in Japanese Context*. Graduate School of Education, the University of Tokyo.
- 2004 Murata, A., Lewis, C., and Perry, R. Teacher learning and lesson study: Developing efficacy through experiencing student learning. In D. McDougall. (Ed.). *Proceedings of the twenty-sixth annual meeting of North American chapter of the international group of the Psychology of Mathematics Education*. Columbus, OH: ERIC Clearinghouse for Science, Mathematics, and Environmental Education. pp. 985 – 992.
- 2003 Lewis, C. Lesson study's essential elements, *Northwest Teacher*, Vol. 4. No. 3, Northwest Eisenhower Regional Consortium for Mathematics and Science.
- 2002 Lewis, C. *Lesson study: A handbook of teacher-led instructional improvement*. Philadelphia: Research for Better Schools.
- 2002 Lewis, C. Everywhere I looked - levers and pendulums. JSD Summer 2002, National Staff Development Council. (p. 59-65)
- 2002 Lewis, C. Does Lesson Study Have a Future in the United States? *Nagoya Journal of Education and Human Development* 2002, No. 1 (p.1.-24)
- 2002 Lewis, C. & Tsuchida, I. How Do Japanese and U.S. Elementary Science Textbooks Differ? Depth, Breadth, and Organization of Selected Physical Science Units. In *National Standards and School Reform in Japan and the United States*, Teachers College, Columbia University. (Chapter 3,p.35 -45)
- 2002 Lewis, C., Tsuchida, I., & Coleman S., The Creation of Japanese and U.S. Elementary Science Textbooks: Different Processes, Different Outcomes. In *National Standards and School Reform in Japan and the United States*, Teachers College, Columbia University. (Chapter 4,p.46 -66)
- 2000 Linn, M., Lewis, C., Tsuchida, I., & Songer, N.B., Beyond fourth grade science: Why do US and Japanese students diverge?, *Educational Researcher*, 29:3, 4-14.

- 2000 Lewis, C. Personal and Cultural Identity, *Human Development* 43:24-26.
- 2000 Daniel Solomon, Victor Battistich, Marilyn Watson, Eric Schaps, & Catherine Lewis. A Six-District Study of Educational Change: Direct and Mediated Effects of the Child Development Project. *Social Psychology of Education*, 4:1, 3-51.
- 2000 Battistich, V., Schaps, E., Watson, M., Solomon, D. & Lewis, C. Effects of the child development project on students' drug use and other problem behaviors. *Journal of Primary Prevention*, April 2000, 1-11.
- 1999 Lewis, C.. Resilient myths: Are our minds made up about Japanese education? In G. LeTendre (Ed.), *Competitor or Ally? Japan's Role in American Educational Debates*. New York: Falmer Press, 141-163.
- 1999 Lewis, C., Schaps, E., & Watson, M. Recapturing education's full mission: Educating for Social, Ethical, and Intellectual Development. In C. Reigeluth (Ed.), *Instructional-Design Theories and Models: A New Paradigm of Instructional Theory*. Mahwah, NJ: Lawrence Erlbaum Associates, 511-539.
- 1999 Schaps, E. & Lewis, C. Perils on an essential journey: Building school community. *Kappan*, November, 215-218.
- 1999 Battistich, V., Watson, M., Solomon, D., Lewis, C., & Schaps, E. Beyond the three R's: A broader agenda for school reform. *Elementary School Journal*. 99, 415-431.
- 1998 Lewis, C. & Tsuchida, I. The basics in Japan: The three C's. *Educational Leadership*, March 1998, 32-37.

SELECTED PUBLICATIONS

- 1998 Lewis, C., & Tsuchida, I. A lesson is like a swiftly flowing river: Research lessons and the improvement of Japanese education. *American Educator*, Winter, 14-17 & 50-52.
- 1997 Lewis, C. & Tsuchida, I. Planned educational change in Japan: The shift to student-centered elementary science. *Journal of Education Policy*, 12:5, 313-331.
- 1996 Schaps, E., Watson, M. & Lewis, C. A sense of community is key to effectiveness in fostering character education. *Journal of Staff Development*, 17:2, Spring, 42-49.
- 1996 Lewis, C., Schaps, E., and Watson, M. The caring classroom's academic edge. *Educational Leadership*, 53 (September), 16-21.
- 1996 Lewis, C. "My job is to create happy memories": The Japanese elementary curriculum. *Principal*, 76:1, 21-24.

- 1996 Schaps, E., Lewis, C., & Watson, M. Building community in school. *Principal*, 76:2, 29-31.
- 1996 Lewis, C. Beyond conflict resolution skills: How do children develop the *will* to solve conflicts at school? In M. Killen (Ed.). *Children's Autonomy, Social Competence, and Interactions with Adults and Other Children: Exploring Connections and Consequences. New Directions for Child Development*, No. 73, Fall. 91-106.
- 1995 *Educating Hearts and Minds: Reflections on Japanese Preschool and Elementary Education*. New York: Cambridge University Press.
- 1995 Lewis, C., Schaps, E., & Watson, M. Beyond the pendulum: Creating caring and challenging schools. *Kappan*, 76, (March) 547-554.
- 1995 Lewis, C. The roots of discipline in Japanese preschools: Meeting children's needs for friendship and contribution. S. Reifel, Ed. *Advances in Early Education and Day Care*, 6, 569-278.
- 1995 Lewis, C. The roots of Japanese educational achievement: Helping children develop bonds to school. *Educational Policy*, 9, (June) 129-151.
- 1994 Pantell, R., & Lewis, C. Interviewing pediatric patients. In M. Lipkin, A. Lazare, & S. Putnam (Eds.). *The Medical Interview*. New York.
- 1992 Lewis, C. Early childhood education in Japan. In S. Feeney (Ed.) *Early Childhood Education in Asia and the Pacific*. New York: Garland, 53-70.
- 1992 Lewis, C. Creativity in Japanese education. In R. Leestma & H. Walberg (Eds.), *Japanese Educational Productivity. Michigan Papers in Japanese Studies*. No. 22. In Press.
- 1992 Lewis, C. Early childhood education in Japan. In S. Feeney (Ed.) *Early Childhood Education in Asia and the Pacific*. New York: Garland, 53-70.

SELECTED PUBLICATIONS

- 1991 Lewis, C., Pantell, R., Sharp, L. Increasing patient knowledge, satisfaction, and involvement: Randomized trial of a communication intervention. *Pediatrics*, 88: 2, 351-358.
- 1990 Lewis, C., Battistich, V., Schaps, E. School-based primary prevention: What is an effective program? Gardner, W., Millstein, S., Wilcox, B. *New Directions For Child Development*, 50, 35-61.

- 1989 Gilliss, C., Lewis, C., Holaday, B., Pantell, R. Improving health in child care centers: An education program. *Maternal and Child Nursing, 14*, 266-268.
- 1989 Lewis, C. From indulgence to internalization: Social control in the early school years. *Journal of Japanese Studies, 15*, 139-157.
- 1989 Lewis, C., Pantell, R., & Kieckhefer, G. Assessment of children's health status. *Medical Care, 27*, S54-S65.
- 1987 Pantell, R., Lewis, C. Interviewing children: A theoretical and empirical analysis. *Advances in Developmental and Behavioral Pediatrics, Vol. 7*, JAI Press, 65-119.
- 1986 Lewis, C. Adolescents' traffic casualties: Causes and countermeasures. In: L. Evans & R. Schwing (Eds.) *Human factors in traffic safety*. NY: Plenum, 67-82.
- 1986 Lewis, C. Children's social development in Japan: Research directions. In: H. Stevenson & K. Hakuta (Eds.) *Child development in the U.S. and Japan*. San Francisco: Freeman, 1986.
- 1983 Pantell, R., Lewis, C. Communicating with children in the hospital. In Frankenburg, Wm., *Child Health Care Communication*, Johnson & Johnson, 1983.
- 1981 Lewis, C. The effects of parental firm control: A reinterpretation of findings. *Psychological Bulletin, 90*, 547-563.
- 1981 Lewis, C. How adolescents approach decisions: Changes over grades 7 to 12 and policy implications. *Child Development, 52*, 538-544.

VIDEO PRODUCTS

- How Many Seats? (30 min; 2005). Lesson study cycle of U.S. teachers. (Mathematical representation of patterns.) Available from Mills College Lesson Study Group, Oakland, CA. www.lessonresearch.net
- Can you find the area? (47 min; 2003) series of research lessons taught in U.S. classroom by Japanese teacher Akihiko Takahashi. (Area of polygons).
- To Open a Cube. (49 min; 2003); Large public lesson taught in U.S. school by Japanese teacher Akihiko Takahashi, and accompanying colloquium. (Problem-solving)
- Frequently Asked Questions on Lesson Study. (28 min; 2001) in the 53-min. videotape "Three Perspectives on Lesson Study." Univ. of California Office of the President.
- Can You Lift 100 Kilograms? (18 min, 2001). Lesson study cycle in a Japanese elementary school. (Levers). Available from Mills College Lesson Study Group, Oakland, CA. www.lessonresearch.net
- The Secret of Magnets?" (16 min, 1999). Research lesson and colloquium in Japanese elementary school. (Magnets.)

The Secret of Trapezes. (16 min, 1999) Series of research lessons in Japanese elementary school. (Pendulums and controlling variables).