

Jill Leslie Keller, PhD

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Chronology of Education

- 1992 PhD with a major in Education and a minor in Reading, University of Arizona, Tucson

Dissertation Director: Dr. Judy Nichols Mitchell, Professor of Reading

Dissertation: Conversational Implicature and Higher Order Thinking in Instructional Conversations

Within the study of curriculum enactment and conversational analysis, my dissertation documents how and interprets why instructional conversations can be re negotiated to encourage students to access concepts on a deeper level. It also documents how the use of instructional materials affects the higher order thinking students contribute to instructional conversations.
- 1978 M.Ed. with major in Reading, University of Arizona, Tucson
- 1970 BS with major in Elementary Education, University of Arizona, Tucson

Major Fields

Within the field of curriculum enactment, my specialty areas include, Content Area Reading instruction and learning strategies (especially math, science, and medical), critical thinking and adult education, the study of tutorial relationships, and the study and design of learning environments created to enhance students' critical and reflective thinking.

Employment

- 2008-present President, Keller Research Consulting, Tucson, Arizona
- 2006-2008 Director, Research for Student Services, College of Medicine
- 2002-2006 Director, Office of Educational Development, College of Medicine
- 2000-2008 Research Assistant Professor, Family and Community Medicine
- 1999-2002 Faculty Affiliate, Hispanic Center of Excellence Grant, Mexican American Studies and Research Center, PI Adela de la Torres, PhD
- 1994-2002 Associate Learning Specialist (Medical Education), Division of Academic Resources, College of Medicine, University of Arizona
- 1993-1994 Senior Research Specialist, Lunar and Planetary Sciences, University of Arizona
- 1992, Spring Instructor, Content Area Reading Course, UA-Sierra Vista Campus
- 1986-1990 Director, Pre-Professional Skills Test Tutoring Program, Office of Student Services, College of Education
- 1984-1986 Research Assistant, Math Dept., University of Arizona

1985, 1986	Coordinator of Advising, University of Arizona Math Readiness Test
1984, 1985	Coordinator of Administering and Advising, University Math Readiness Test. University of Arizona
1983-84	Supervisor, New Start Summer Math Program, University of Arizona
1982-84	Graduate Assistant, Mathematics Dept., University of Arizona
1982-84	Graduate Associate, Academic Learning Skills Center, University of Arizona
1982	Graduate Assistant, Physics Dept., University of Arizona
1980-81	Instructor, Chemistry Dept., The Ohio State University
1978-80	Graduate Assistant, Chemistry Dept., University of Arizona
1971-75	Fifth and Sixth Grade Physical Education Teacher, Iola Frans School, Flowing Wells School District, Tucson, AZ
1970-71	Fourth Grade Teacher, Walter Douglas School, Flowing Wells School District, Tucson, AZ

Honors and Awards

1999	“The University of Arizona Staff Award for Excellence” April 21.
1999	Recognized for “Outstanding Research in Medical Education“ by the Western Group on Educational Affairs, American Association of Medical Colleges, Research on Medical Education Conference, Park City Utah, April 10-12 with Susan Ellis and Joe Miller
1998	Recognized for “Outstanding Research in Medical Education” by the Western Group on Educational Affairs, Association of American Medical Colleges, Monterey, CA, April 27. with Danny Burns
1997	Special recognition for “Technology orientation for incoming medical students.” Western Group on Educational Affairs, Association of American Medical Colleges, Tucson, AZ, April 4, with Richard Casavoras and Phil Callahan
1996	Recognized for “Outstanding Research in Medical Education” by the Western Group on Educational Affairs, Association of American Medical Colleges, Monterey, CA, April 27, with Marc Tischler and Christopher A. Leadem
1991	Recognized for outstanding service to the College of Education as Director of the Pre-Professional Skills Test Tutorial Project. University of Arizona, Tucson, AZ
1991	Recognized for achievement in retention efforts for the Office of Minority Student Affairs in their summer math and math/science tutoring programs, University of Arizona, Tucson, AZ
1991	Recognized for the support of returning women students from the New Traditional Student Program University of Arizona, Tucson, AZ
1983	Recognized for contributions to the University of Arizona Athletic Department 's Mathematics Tutoring Program, University of Arizona: Tucson, AZ

Service-Local/State/National

2004 to 2005	Development and supervision of a pilot “Post Baccalaureate” program for educationally disadvantaged students. Students are given a conditional acceptance to the University of Arizona College of Medicine and will join the Medical Student class of 2009 upon successful completion of the program with Joanna Arnold, Raquel Givens and Sarah Joslin.
2000 to 2004	Development and supervision of fall and spring semester elective reading and science concept mapping courses for University of Arizona minority and disadvantaged students with Joanna Arnold

- 1995 to 2005 Continued development of and research on the reading circles and science concept mapping portions of the Minority Medical Education Program (MMEP) with Joanna Arnold. MMEP is a 6-week summer program for college students interested in entering the Health Professions
- 1995 to 2004 Supervision and development of the Med Start “Cultures of Medicine” technology portion of their summer program with Joanna Arnold. Med-Start is a 6-week summer program for high school students between their junior and senior years who are interested in the Health Professions
- 1995 to 2005 Continued facilitator training for science concept mapping and reading circles of the MMEP program with Joanna Arnold
- 1995 to 2006 Development, supervision and participation in the Medical Summer Bridge Program with Marc Tischler. This is an 11 day program designed to introduce “at risk” incoming first year medical students to the academic, social and personal demands of medical school. The aim is to use content to develop more sophisticated approaches to learning.
- 1995 to 2006 Pediatric, Medicine, Neurology/Psychology and Psychiatry Residents workshops for preparation for specialty boards
- 1995-2006 Faculty Development Workshops for Phoenix faculty, Phoenix AZ
- 1994 to 2002 Development of workshops for the Arizona Health Sciences Center’s Deans’ Teaching Scholar program. The participants in this program are accepted through competitive application and the program is designed to provide an introduction to the scholarship of teaching. The participants are required to complete a research project and I work with those who have a qualitative component to their research.
- 1997 to 2006t Development, supervision and participation in Orientation Programs for entering students for the Colleges of Nursing and Pharmacy with Joanna Arnold and Raquel Givens
- 1999 to 2002 Neuroanatomy small group facilitator
- 1999 Hospice Nurses “high stakes” test taking workshop teleconference to Phoenix
- 1999 Co-Director Minority Curriculum Advisory Group Conference (MCAG) Feb 24-26 with the Office of Minority Student Affairs Brought together the learning skills specialists and program directors from Minority Medical Education Programs (MMEP)
- 1999 Met with incoming first-year minority students at a luncheon given by the Office of Minority Student Affairs (OMSA)
- 1999 Invited lecture for a graduate evaluation class at the University of Arizona, College of Education “Qualitative research in as an evaluation tool.”
- 1996-1999 PBL workshops to faculty from various departments with Chris Leadem, Paul Mann (New Mexico) and Bill Galey (New Mexico)
- CV and letter of introduction workshops for pediatrics residents
- Pharmacy Small Group Facilitator Training Workshop with Susan Ellis
- Rho Chi Tutor Training Workshop with Susan Ellis (pharmacy)
- 1996-1997 Nine faculty development workshops at the Veterans Administration Hospital, Tucson, AZ
- 1995 A series of MCAT reviews for minority students

Citizenship

Intramural

Departmental

- 1995-2006 Chair and member of various departmental hiring committees

College

2005	Member, Faculty Subcommittee, LCME Institutional Self Study Task Force
2004 to 2006	Member, Steering Committee for Curricular Reform
2004 to 2006	Staff advisor to the Evaluation Team Committee for Curricular Reform
2004 to 2006	Staff advisor to the Learning Team Committee for Curricular Reform
2004 to 2006	Chair, Technology Committee for Curricular Reform
2002 to 2004	Member Deans Educational Advisory Team
1994 to 2006	Staff advisor to the Student Progress Committee
1994 to 2006	Staff advisor to the Curriculum Committee
1994 to 2006	Staff advisor to the Basic Science Course Directors Committee
1994 to 2006	Staff advisor to the Clerkship Directors Committee
1999	Member Student Progress Subcommittee
1997	Member subcommittee on Medical Students, Liaison Committee on Medical Education (LCME) in preparation for the accreditation site visit in January 1998

Extramural

2004 to 2007	Reviewer, Research proposals for the Society of Directors of Research in Medical Education
2004	Member study group, National Institutes of Health National Institute of General Medical Science (NIH/NIGMS): "Efficacy of Interventions Promoting Entry into Biomedical Research Careers". Bethesda Maryland, March 15-16.
2001 to 2004	Member, National Advisory Panel for "Implementation, Dissemination, and Evaluation of Team Learning in Medical Education" Baylor College of Medicine FIPSE Grant
1998 to 2002	Member "Minority Curriculum Advisory Group (MCAG) advisor for curriculum development for the Minority Medical Education Program (MMEP) sponsored by the Robert Wood Johnson Foundation and the AAMC
1999	Co-Director Summer Medical Education Program "Minority Curriculum Advisory Group" (MCAG) Conference with Linda Don, University of Arizona College of Medicine; Tucson Arizona. Feb. 24-26
1998 to 2005	Reviewer program proposals for the American Educational Association Division I (Professional Education).
1997	Reviewer program proposals for the Western Group on Educational Affairs.
1995	Presider at a National Association for Research in Science Teaching (NARST) conference session, "Performance assessment in science: Examining the roles of teachers and students."

Publications

2007	McGee, R., & Keller, J.L. "Identifying future scientists: Predicting persistence into research training." <i>CBE-Life Sciences Education</i> <u>6</u> , 316-331.
2008	Feingold, C., Cobb, M, Hernandez-Givens R., Arnold, J., Joslin, S., Keller, J. , "Student Perceptions of Team Learning in Nursing Education" <i>Journal of Nursing Education</i> , 47, 214-222.

- 2008 McGee, R, Almquist, J, **Keller J.L.**, & Jacobsen, S. J. "Teaching and Learning Responsible Research Conduct: Influences of Prior Experiences on Acceptance of New Ideas." *Accountability in Research*, 15, 30-62.
- 1998 Greenberg, R., Raphael, J., **Keller, J. L.**, & Tobias, S. "Teaching High School Science with Image Processing: A Case Study." *Journal of Research in Science Teaching*, 35(3), 297-328
- 1997 **Keller, Jill L.**, Burns, Dan "One Facilitator, Two PBL Groups." *Academic Medicine*, 72:4
- 1997 Erstad, Brian L., Armstrong, Edward P, Callahan, Phil, **Keller, Jill** "Evaluation of Practice Site Learning Experience for Entry-Level Doctor of Pharmacy Students." *Am. J. of Pharm. Educ.*, 61, 87-90
- 1997 Mac Elvee, Cameron R. & **Keller Jill L.**, "Verbal Reasoning: What do the makers of the MCAT really want from students?" Invited manuscript. *The Road MMEP*, Summer 1997
- 1988 Chang, R., Keller, P. C. & **Keller, J. L.** Student Solutions Manual to Accompany Raymond Chang's General Chemistry. 400 pp. New York, NY: Random House Inc.
- 1986 Keller, P. C. & **Keller, J. L.** Tutorial and Guide to the Study of Raymond Chang's General Chemistry. 177 pp. New York, NY: Random House Inc.
- 1981 **Keller, J. L.**, & Lippincott, W. T. "Study skills program in chemistry." Note to the Faculty, 11, March.

Invited Presentations

- 2001 "Structuring learning environments to encourage intellectual development" with Joanna Arnold, MARC/MBRS (Minority Access to Research Careers/Minority Biomedical Research Support) program directors meeting; Jackson Hole, WY. June 21.
- 2001 "The application of qualitative analysis in program evaluation." PRIM&R Conference (Public Responsibility in Medicine and Research): Policies, challenges and opportunities; Arlington VA, May 19.
- 2000 "The Effect of Group Process on Student Learning within the "Work for Grade Exchange Currency" with Maria Czuzak, Department of Anatomy and Histology, University of Sydney, Sydney Australia, March 6
- 1999 "Re-Energizing Resident Education Rounds: Encouraging Higher-order Thinking and Fostering Fun at the Same time", with Susan Ellis and Joe Miller, Western Group on Educational Affairs, American Association of Medical Colleges, Research in Medical Education Conference, Park City Utah. April 10-12
- 1999 "Methods for Analyzing Complex Text-Based and Interview Data in Educational Program Assessment." with Richard McGee. Third Annual Assessment Conference, School of Business Administration and Economics California State University, Fullerton, March 4-5
- 1998 "A case study of a link between approaches to learning and USMLE Step 1 board scores." with Dan Burns. Western Group on Educational Affairs, American Association of Medical Colleges, Research in Medical Education Conference, Pacific Grove, CA. April 26-28
- 1996 "A description and results of the evaluation of the University of Arizona College of Medicine's first summer preprofessional program." with Marc E. Tischler and Christopher Leadem, Western Group on Educational Affairs, American Association of Medical Colleges, Research on Medical Education Conference, Monterey CA.
- 1995 "Developing curricula for MMEP (Minority Medical Education) programs." Minority Medical Education Program Directors Meeting, Lansdowne, VA.

Peer Reviewed Presentations

- 2011 McGee, R., Keller, J., Campbell, P., Remich, R., LaBlance, S., McGee, E., Gazley, L. "Career Decision-Making of Young PhD Scientists: A Longitudinal, Interview-Based Qualitative Research Study Across Gender and Ethnicity." Poster Presentation, 1st International Conference on Faculty Development in the Health Professions. Toronto, Canada. May 10-13.
- 2011 Remich, R., Keller, J., Gazley, L. McGee, R., "Understanding Why Aspiring PhD Students Seek a Postbaccalaureate Research Program." Oral Presentation, 4th Annual Conference on Understanding Interventions that Broaden Participation in Research Careers. Nashville, TN. May 26-28.
- 2011 McGee, R., Keller, J., Campbell, P., Remich, R., LaBlance, S., Lee, S., McGee, E., Gazley, L., McGee, E., Keller, K., Breau, B., Richardson, J., Morrissey, B., Williams, S. "The Scientific Careers Research and Development Group - Integrating Theory, Research and Application to Understand and Promote Scientific Careers." Poster Presentation, 4th Annual Conference on Understanding Interventions that Broaden Participation in Research Careers. Nashville, TN. May 26-28.
- 2010 Lee, S., Keller, K., LaBlance, S., Remich, R., Huaman, E., McGee, E., Keller, J., Campbell, P., McGee, R., "A Theory-Driven Professional Development Approach That Helps Bioscience Graduate Students from Diverse Backgrounds and Underrepresented Groups Become Accepted Members of Research Communities." Poster Presentation, MORE (Minority Opportunities in Research) "How To" Conference. Chicago, IL. June 9-11
- 2004 "Concept Mapping: Environments for Intellectual Development" with Joanna Arnold, American Educational Research Association, Division J Post Secondary Education, San Diego, April 22.
- 2002 "Cultures of Medicine: A Technology Based Learning Environment to Enhance Critical Thinking", American Educational Research Association, Division C Learning and Instruction, New Orleans, April 2
- 2001 "The Effect Attendance, Participation and Group Process within the "Work for Grade Exchange Economy" in Anatomy Laboratory with Maria Czuzak & Judith Rein, American Educational Research Association, Division I Education in the Professions, Seattle, WA; April 11
- 2000 "Improving Minority Students Problem Solving Skills", with Joanna Arnold and Judith Rein, Association of American Medical Colleges Group on Student Affairs/Minority Affairs Section, Chicago IL, October 31
- 2000 "An Alternative Postbaccalaureate Model: Student Development in a Patient-Oriented Research Training Program, with Richard McGee and Gregory Poland, Mayo Medical School. Association of American Medical Colleges Group on Student Affairs/Minority Affairs Section, Chicago IL, October 31
- 2000 "Cultures of Medicine: A Technology Based Project Designed to Enhance Critical Thinking Skills", with Joanna Arnold, Arizona Educational Research Organization, Tucson, AZ, October 13
- 1999 "Understanding the relationship between the MCAT verbal reasoning scores and attitudes towards reading and learning approaches of Tucson MMEP Students", Minority Curriculum Advisory Group Conference. University of Arizona College of Medicine, Tucson, AZ, Feb. 24-26
- 1998 "A case study of a link between approaches to learning and USMLE Step 1 board scores." with Dan Burns Western Group on Educational Affairs, Association of American Medical Colleges, Pacific Grove, CA April 26-2.

- 1998 “Medical educators’ perceptions of teaching at the University of Arizona College of Medicine.” with Cameron R. Mac Elvee, Judith A. Rein, and Michael A. Kallen. Western Group on Educational Affairs, Association of American medical Colleges, Pacific Grove, CA. April 26-28
- 1997 “A program to encourage entering medical students to develop sophisticated study skills early.” with Phil Callahan, Christopher Leadem, and Judith Rein. AAMC Research in Medical Education Conference, Washington, DC. Oct. 30-Nov. 5
- 1997 “Technology orientation for incoming medical students.” with Phil Callahan and Richard Cavafora. Western Group on Educational Affairs, Association of American Medical Colleges, Tucson, AZ, April 4
- 1996 “A description and evaluation of the University of Arizona, College of Medicine’s first summer preprofessional program.” with Marc E. Tischler, & Christopher Leadem. AAMC Research in Medical Education Conference, San Francisco, CA Nov. 6-11
- 1996 “Medical educators’ views about teaching in the College of Medicine at the University of Arizona.” with Cam R. Mac Elvee WGEA, AAMC Research on Medical Education Conference, Monterey CA
- 1996 “Increasing the usefulness of sample multiple choice tests at the University of Arizona.” with Stephen L. Jones, Dan Burns, and Phil Callahan. WGEA, AAMC Research in Medical Education Conference, Monterey CA
- 1996 “Evaluation of practice site visitation program for entry-level students.” with Brian L. Erstad, and Phil Callahan. Poster session, WGEA, AAMC Research in Medical Education Conference, Monterey CA
- 1995 “An effective solution for the increasing mismatch between faculty resources and the optimal size of PBL groups.” with Dan Burns AAMC, Research in Medical Education Conference, Washington, DC
- 1995 "Structuring chemistry laboratory environments to promote critical thinking and learning." with Philip C. Keller, National Association for Research in Science Teaching, San Francisco, CA
- 1995 "Using conversational theory as an explanatory framework for understanding students' higher order contributions during tutorials." with Judy N. Mitchell. American Educational Research Association, San Francisco, CA
- 1994 "Conversational theory and higher order thinking in instructional conversations." with Judy N. Mitchell. National Association for Research in Science Teaching, Anaheim, CA

Invited Symposia

- 2004 Student Medical Education Program (SMEP) “Best Practices: Curriculum Panel”, Annual Joint Meeting of HPPI/MMEP, Phoenix AZ, Dec 10-12.
- 2004 “Getting Beyond the Numbers for a chance to learn something of the real world. Qualitative Research: A powerful resource for WGEA, WGSA and WGSA-MAS. WGEA/WGSA Regional Conference, Asilomar Conference Center, Pacific Grove, CA April 27
- 2000 Minority Medical Education Program (MMEP) Curriculum Issues Panel with Hillary Schmidt, Micheal Rainey, and Martha Stagar. Annual Joint Meeting of HPPI/MMEP, Birmingham AL, December 1-3.
- 1999 “Preparing our students to learn.” MMEP/HPPI Learning Specialist Panel with Martha Stager, Marguerite McCurdy and Ashley Davis. MMEP/HPPI Annual Program Directors’ Meeting, Washington DC, September 29-October 1.
- 1999 “Roles of Learning Specialists: Learning skills; learning styles; test-taking skills.” Panel discussion with Liza Cariaga-Lo, Martha Stager and Hy Doyle. MMEP/HPPI Annual Program Directors’ Meeting, Washington DC, September 29-October 1.

- 1998 “Assessing the impact of a summer program using qualitative research methods.” with Rick McGee. Advanced Institute for Experienced Professionals. National Conference on Race and Ethnicity, Denver, CO. May 28-June 1.
- 1997 “Redefining the role of learning skills specialists from academic counselor to academic coach.” with Cameron Mac Elvee, Mike O’Donnell, Hy Doyle, and Margaret Robbins Western Group on Educational Affairs, American Association of Medical Colleges, Research on Medical Education Conference, Tucson AZ, April 4

Grants and Contracts

- 2001 “Pre-Health Professions Academic Outreach Program” New Learning Environments and Instructional Technology Grants Program Proposal. PI \$13,970 with Joanna Arnold
- 2000 “Cultures of Medicine Project” The University of Arizona, New Learning Environments and Instructional Technology Grants Program. PI \$3,140.00 with Joanna Arnold
- 1998 “Understanding the relationship between the MCAT verbal reasoning scores and attitudes towards reading and learning approaches of Tucson MMEP Students”. 80% PI Robert Woods Johnson Foundation \$2,000.00

Programs Developed

- 2004 to 2005 Developed and Supervised the “Post Baccalaureate” Program for “at risk” educationally disadvantaged students. Upon joining the program on the recommendation of the admissions committee, these students received a conditional acceptance to the College of Medicine. The admissions committee saw them as students who would become excellent doctors but lacked the time management and sophisticated approaches to learning needed to succeed in medical school. Upon successful completion of the program students will enter the Class of 2009.
- 2000 to 2004 Developed, implemented and supervised fall and spring semester elective credit Science Concept Mapping and Reading Circles. Minority and disadvantaged students get credit through Mexican American Studies and Biochemistry Departments
- 2000 to present Supervised the development of the “Cultures of Medicine” course for Med Start summer program. This is a six-week, technology based course for high school students from rural and underserved areas.
- 1996 to present Developed and implemented a 6 week NBME Boards Review Course for third year students who failed Step 1 of the USMLE, NBME Licensing exam
- 1995-to present Developed and implemented the study skills component of a 11-day Preprofessional Program designed for incoming “at risk” first year medical students
- 1995-to present Developed and implemented curriculum for the Medical Minority Education Program (MMEP) designed to meet the needs of minority students during a six-week course focusing on the development of the students’ approaches to learning. Also, trained the instructors to use teaching techniques that would encourage students to become active and independent learners
- 1995-1996 Worked with the Med Start program to develop a mathematics tutorial and train the instructors teach mathematics concepts using a problem solving format
- 1994-1995 Worked with freshman chemistry personnel at the University of Arizona to study and design learning environments needed to develop reflective inquiry and real science skills in Undergraduate Chemistry Laboratories
- 1986 Developed a tutoring program in the College of Education at the University of Arizona for the state mandated Pre-Professional Skills Test
- 1985 Designed and implemented an Intermediate Algebra Teacher Training Program, Mathematics Dept., University of Arizona

- 1984 Designed and implemented mathematics tutoring programs at Rincon and Sunny Side High Schools, Tucson, Arizona
- 1983 Developed tutor training programs for the Mathematics and Chemistry Departments, University of Arizona
- 1982-83 Developed student-centered Math Learning Centers for the Office of Minority Student Affairs and the Athletic Dept., University of Arizona
- 1983 Developed an approach to teaching a mathematics problem solving course, Mathematics Dept., University of Arizona
- 1982 Implemented a Math Study Skills Program, Mathematics Dept., University of Arizona
- 1982 Implemented problem solving sessions for Freshmen Physics Students, Physics Dept., University of Arizona
- 1982 Developed a Physics Study Skills Program, Physics Dept., University of Arizona
- 1978 Created a Chemistry Study Skills Program, Chemistry Dept., University of Arizona
- 1974 Implemented Swimming and Movement Experience programs for EMR students at Iola Frans School, Tucson, Arizona
- 1973 Reorganized Iola Frans School's fifth and sixth grade gymnastics program to reduce accident rates, Tucson, Arizona
- 1971 Individualized fourth grade science program for Walter Douglas School, Tucson, Arizona

Invited National Workshops

- 2000/01/04 “Conducting Science Concept Mapping Groups” with Joanna Arnold. Annual Joint Meeting of HPPI (Health Professions Partnership Initiative) and SMEP (Student Medical Education Program), Birmingham AL, Dec 1-3 and San Antonio TX, Dec 7-9, Phoenix AZ Dec 10
- 2001 “Using Literature in Science Classrooms” with Joanna Arnold. Annual Joint Meeting of HPPI (Health Professions Partnership Initiative) and MMEP. San Antonio TX, Dec 7-9
- 2001 “The use of case studies and theater in teaching the responsible conduct of research” with Roderick Nairn. PRIM&R Conference (Public Responsibility in Medicine and Research): Policies, challenges and opportunities. Arlington VA, May 20
- 2001 Developing and assessing on-line courses for the responsible conduct of research” with Michael Kalichman. PRIM&R Conference (Public Responsibility in Medicine and Research): Policies, challenges and opportunities. Arlington VA, May 19
- 2000 “Conducting Reading Circles” with Joanna Arnold. Annual Joint Meeting of HPPI and MMEP. Birmingham AL, Dec 1-3

Submitted Regional Workshops

- 1999 “Paradigms of Teaching and Learning.” Western Group on Educational Affairs, AAMC Regional Conference, Park City, Utah, April 10-12
- 1998 Day long workshop for Undergraduate Science Instructors introducing them to active large lecture teaching techniques, cooperative learning strategies, student study skills and research on programs developed to encourage deeper thinking on the part of students. University of Northern Colorado: Greeley, CO. Nov. 16
- 1998 “Encouraging Collaborative Learning in Large Lecture-Based Classes” with Susan Ellis. Western Group on Educational Affairs, AAMC Regional Conference, Pacific Grove, CA, April 27

1997 “Integrating Technology into medical learning experiences: Using group decision software.” with Cam Mac Elvee, Susan Ellis, Steve Jones, Phil Callahan and Dan Burns Western Group on Educational Affairs, AAMC Regional Conference, Tucson, AZ, April 4

Workshops

2001 “Introduction to Qualitative Research” with Joanna Arnold. presented to 2000/2001 Deans’ Teaching Scholars, Arizona Health Sciences Center, University of Arizona, Tucson, AZ. Feb. 15

2000/01 “What do the best health educators do?” presented to the 2000/2001 Deans’ Teaching Scholars, Arizona Health Sciences Center, University of Arizona., Tucson, AZ. Oct 12

1996 “Giving appropriate feedback to medical students”, University of Arizona, Division of Academic Resources, College of Medicine, Tucson, AZ

1996 A series of workshops on “Facilitating Problem Based Learning” with Paul Mann, University of New Mexico & Chris Leadem, College of Medicine, Tucson, AZ

1995/96 "Exam Construction Workshops" with Jack Nolte, John Fulginiti, & Phil Callahan, University of Arizona, Division of Academic Resources, College of Medicine, Tucson, Arizona

1995/96 "Board Review for Internal Medicine", with Bill Johnson, Department of Internal Medicine: College of Medicine, Tucson, Arizona.

1995-99 "How to Write a Winning Personal Statement and Curriculum Vitae (CV)" with Margaret Robbins, University of Arizona, Division of Academic Resources: College of Medicine Residency Fair, Tucson, Arizona

1995/96 A series of workshops on "Active Learning for Surviving Medical School", with Jack Nolte, Chris Leadem, Dan Burns & Herman Gordon, University of Arizona, Division of Academic Resources. College of Medicine Tucson, Arizona

Consultant Positions

2008-present Senior Research Scientist with the Scientific Careers Research Group, Northwestern University, Feinberg School of Medicine

1997-2004 Special Project Associate for research design and personal training for qualitative interview and analysis for NIH Grant “Training in Translational Research: Bench to Bedside” PI Rick McGee PhD, Mayo Graduate School, Rochester, MN

1998 “Faculty Development for Undergraduate Science Instructors” University of Northern Colorado, Greeley Colorado, Nov. with Susan Ellis

1988 Tutor training in the Chemistry Department, University of Arizona, Tucson, AZ

1985-1987 Teacher and tutor training for the New Start Summer Math Program, University of Arizona, Tucson, AZ

1985 Follow-up to the MEChA Project Workshop, I worked with the teachers in their classrooms, Tucson Unified School District, Tucson, AZ

1984-1986 Tutor training in the Mathematics and Chemistry Departments University of Arizona, Tucson, AZ

Evaluation Positions

2004 to 2005 Qualitative evaluator for the Hispanic Center of Excellence Grant, PI Francisco Garcia

2000-2005 Qualitative evaluator for the IMSD (Initiative for Minority Student Development) grant, PI Maria Theresa Velez, I am responsible for developing the qualitative evaluation component for the program

1999-2002 As a Faculty Affiliate for the Hispanic Center of Excellence Grant, I am responsible for the development and assessment of Hispanic students approaches to learning. I am also

responsible for developing the research efforts of any Hispanic COM faculty that request my assistance

National Boards

2001-2004

National Advisory Panel for FIPSE Grant to Baylor University College of Medicine
“Implementation, Dissemination, and Evaluation of Team Learning in Medical Education” PI
Boyd Richards.