

University of Colorado  
President's Teaching and Learning Collaborative  
Index  
2006-Present

**PTLC RESEARCH PROPOSALS**

PTLC 2006 Cohort: 6 proposals submitted and 6 accepted

- CU Boulder – 2
- CU Denver – 3
- CU Colorado Springs – 1

PTLC 2007 Cohort: 19 proposals submitted and 16 accepted

- CU Boulder – 8
- CU Denver – 6
- CU Colorado Springs – 2

PTLC 2008 Cohort: 15 proposals submitted, 15 accepted and 2 extended from 2007 (17 total)

- CU Boulder – 9
- CU Denver – 6
- CU Colorado Springs – 2

PTLC 2009 Cohort: 22 proposals submitted, 18 accepted and 4 reapplications accepted (22 total)

- CU Boulder – 7
- CU Denver – 9
- CU Colorado Springs – 2

**PTLC PROGRESS REPORT MEETINGS**

PTLC 2006 Cohort: 8 meetings occurred

PTLC 2007 Cohort: 6 meetings occurred

PTLC 2008 Cohort: 8 meetings occurred

PTLC 2009 Cohort: 8 meetings scheduled

PTLC Faculty Researchers Proposals for 2009 Cohort

Total 22 faculty

All researchers are CU faculty, none is a President's Teaching Scholar.

# University of Colorado at Boulder

## SCHOLARLY WORK

### *Peer-reviewed Journals, Periodicals*

#### **Computer Science**

- Lewis, Clayton. UCB. 2007 Attitudes and beliefs about computer science among students and faculty. SIGCSE Bulletin. 39, 2 (Jun. 2007), 37-41.

#### **Ecology & Evolutionary Biology**

- Basey, John. UCB. January 2008 issue of *International Journal for the Scholarship of Teaching & Learning* available online at [http://www.georgiasouthern.edu/ijsotl/issue\\_v2n1.htm](http://www.georgiasouthern.edu/ijsotl/issue_v2n1.htm)

#### **Electrical & Computer Engineering**

- Mickelson, Alan. UCB. In Press: Richard Franzl, Deniz Gurkan, Driss Benhaddou, and Alan Mickelson, "E-Learning Laboratories for Optical Circuits: Separation of Imperfections in Technology and Teaching Methodologies," *International Journal of Modern Engineering*, Spring/Summer 2008 Issue.
- Mickelson, Alan. UCB. In Press: Deniz Gurkan, Alan Mickelson, and Driss Benhaddou, "Remote Laboratories for Optical Circuits," *IEEE Transactions on Education*, accepted for November 2007, but to appear in a future issue.
- Mickelson, Alan. UCB. Published: Alex Awskiewicz, Ideen Taeb, Driss Benhaddou, Deniz Gurkan, Frank Barnes and Alan Mickelson, "A Two Credit Hour Stand-Alone Remote Optics Laboratory," Proceedings of the American Society for Engineering Education Annual Conference and Exposition, Honolulu, Hawaii (June 2007).
- Mickelson, Alan. UCB. Published: Deniz Gurkan, Alan Mickelson, and Driss Benhaddou, "Results of a Collaborative Remote *Optical Circuits* Laboratory," Proceedings of the American Society for Engineering Education Annual Conference and Exposition, Honolulu, Hawaii (June 2007).
- Mickelson, Alan. UCB. Published: Richard Franzl, Deniz Gurkan, Driss Benhaddou, and Alan Mickelson, "E-Learning Laboratories for Optical Circuits: Separation of Imperfections in Technology and Teaching Methodologies," Proceedings of the 2006 IJME-Intertech Conference Session ENT 103-094 (October, 2006).
- Mickelson, Alan. UCB. Published: Driss Benhaddou, Deniz Gurkan, Harshita Kodali, Edward McKenna, Alan Mickelaon, and Frank Barnes, "Online Laboratories for Optical Circuits Courses: Effective concept mapping," Proceedings of the 2006 American Society for Engineering Education Gulf-Southwest Annual Conference, Southern University and A&M College, March 2006.
- Mickelson, Alan. UCB. Published: Edward McKenna, Randal Direen, Frank Barnes, Deniz Gurkan, Alan Mickelson, and Driss Benhaddou, "E-Learning Environmental Design of a Distributed Online Laboratory for Optical Circuits Courses," Proceedings of the American Society for Engineering Education Annual Conference and Exposition, Portland, Oregon, June 2005.

## *Peer-reviewed Conferences, International and National*

### **Applied Mathematics**

- Nelson, Mary. UCB. "Reforming Calculus Teaching: Oral Assessments before Tests." Presented at North American Chapter of the International Group for the Psychology of Mathematics Education. Toronto, Canada. October, 2004.
- Nelson, Mary. UCB. "Calculus I Oral Assessments: Improved Grades, Retention and Calculus II Success." Paper to be presented at the Joint Mathematics Meeting. San Diego, California. January, 2008.
- Nelson, Mary. UCB. "A reform approach to calculus: Improved retention, grades, and conceptual understanding. Presented at the Annual AERA Conference. Chicago, IL. April, 2007.

### **Communication**

- White, Cindy. UCB. Presentation as part of a panel about Teacher/Scholar Reflection on Teaching Nonverbal Communication at the National Communication Association. November 2008.

### **Electrical & Computer Engineering**

- Mickelson, Alan. UCB. Accepted: Driss Benhaddou and Alan Mickelson, "Collaborative Research: An Online Laboratory for Optical Circuits Courses," Course Curriculum and Laboratory Improvement (CCLI) Program Principal Investigator (PI) Conference, August 13-15, 2008 (Washington DC).

### **Mechanical Engineering**

- Hertzberg, Jean. UCB. Presentation at American Physical Society, Division of Fluid Dynamics Annual Meeting, fall 2007

### **Music**

- Cremaschi, Alejandro. UCB. Presentation at the conference of the Music Teachers National Association. April 2009.

### **Sociology**

- Mollborn, Stefanie UCB, and Angel Hoekstra. "Assessing a New Pedagogical Model for Clicker-Based Instruction in the Social Sciences." Presented at Society for the Study of Social Problems 2008 annual meeting on August 1, 2008, Boston.

## *Regional Conferences*

### **Applied Mathematics**

- Nelson, Mary. UCB. "Calculus I: A Reform Approach." Paper presented at NCTM Regional Conference. Denver, Colorado. November, 2005.

### **Communication**

- White, Cindy. UCB. Presentation of a paper about student perspectives on learning at the Western States Communication Association. February 2008.

**Program for Writing and Rhetoric**

- Bliss, Ann. UCB. Presentation at the Colorado Telecommunications Conference. April 2007.

**Sociology**

- Mollborn, Stefanie UCB, and Angel Hoekstra. "Assessing a New Pedagogical Model for Clicker-Based Instruction in the Social Sciences." Colorado Learning and Teaching with Technology Conference (COLTT) 2008, Boulder, CO.

**Spanish & Portuguese**

- Becher, Anne. UCB. Presentation: "Is there Life Beyond this Stack of Papers" at the Colorado Council of Foreign Language Teachers on February 16, 2008, in Denver.

*Local Forums, CU Boulder***Ecology & Evolutionary Biology**

- Basey, John. UCB. Presented a seminar to the Graduate Teacher Program at CU Boulder in September 2007
- Basey, John. UCB. Results will be integrated into lab manuals for General Biology Lab I, General Biology Lab II, General Biology Lab: A Human Approach, and Microbiology Lab

**Geography and Environmental Studies**

- Blanken, Peter, UCB. Presented "Teaching Large Classes" as part of a workshop series to faculty as part of the Geography Faculty Development Alliance. June 15-21, 2008. CU-Boulder.

**Mechanical Engineering**

- Hertzberg, Jean. UCB. Professor Hertzberg coordinated a presentation of learning theories to eight engineering faculty members by CU faculty researcher Sarah Hug, October 2008.

**President's Teaching Scholars Program**

- CU-Boulder Flagship 2030 Task Force Report on Outreach and Engagement

**Spanish & Portuguese**

- Becher, Anne. UCB. Presented "Effective Feedback Techniques for Student Writing" to department in March 2008

**Sociology**

- Mollborn, Stefanie UCB, and Angel Hoekstra. "Strategies for Using Clickers in the Social Sciences and Humanities." Presented at the Colorado Learning and Teaching with Technology Conference on August 12, 2008. Boulder, CO.

# University of Colorado Denver

## **SCHOLARLY WORK**

### *Peer-reviewed Journals, Periodicals*

#### **Education & Human Development**

- Gabringer, Scott. UCD. Grabinger, R. S., Aplin, C., & Ponnappa-Brenner, G. (2008). Supporting learners with cognitive impairments in online environments. *TechTrends (X)*, January/May, pp. XXX. In Press.

### *Peer-reviewed Conferences, International and National*

#### **Communication and Evaluation**

- Kellar-Guenther, Yvonne. Evaluating training efficacy: A pilot in using delayed evaluations. Presentation at the annual American Evaluation Association Meeting. Denver, CO. November 2008.

#### **Education & Human Development**

- Grabinger, R. Scott UCD, Aplin, C., & Ponnappa-Brenner, G. (2007). Supporting postsecondary learners with disabilities in online environments. Sloan-C Conference, Orlando, FL, November.
- Grabinger, R. Scott UCD, Aplin, C., & Ponnappa-Brenner, G. (2007). Supporting postsecondary learners with disabilities in online environments. Presentation at the m-ICTE2000 conference, Seville, Spain. Refereed.

#### **Medical Oncology**

- Bemis, Lynne UCD, & Burhansstipanov, Linda. "Genetic Education for Native Americans." Presented at the Health Disparities and Social Justice Course on June 24, 2008. Houston, TX.

#### **Music & Entertainment Industry Studies**

- Coe, Judith. UCD. Creativity and Reflection: Expanded Learning in a Singer/Songwriter Ensemble, Paper presented at the International Society for the Scholarship of Teaching and Learning (ISSOTL) Conference 2008. Edmonton, Alberta, Canada. Saturday, October 18, 2008.

#### **Pharmacy**

- Tuner, Christopher. UCD. A poster abstract will be submitted for presentation at the July, 2008 annual meeting of the American Association of Colleges of Pharmacy

## *Local Forums, CU Denver*

### **Business**

- *Bettenhausen, Ken. UCD. Presented preliminary findings to Quality Undergraduate Experience steering committee.*
- *Bettenhausen, Ken. UCD. Presented preliminary findings to First Year Seminar Steering Committee.*
- *Bettenhausen, Ken. UCD. Plan to present findings to UCD Dean's Council.*

### **Center for Faculty Development**

- *Muth, Ellen and Rod Muth. A webpage dedicated to the Scholarship of Teaching and Learning has been added to the website for the Center for Faculty Development. [http://thunder1.cudenver.edu/CFD/virtual\\_cfd/sotl/sotl.htm](http://thunder1.cudenver.edu/CFD/virtual_cfd/sotl/sotl.htm)*

### **Education & Human Development**

- *Grabinger, R. Scott UCD, & Aplin, Cary. (2006). The Intersection of Neuroscience and Education. Presented at the Developmental Psychobiology Research Group at the University Health Sciences Center. February 14, 2006. Invited.*

### **Medical Oncology**

- *Bemis, Lynne UCD. Professor Bemis's students have started a Health Care Disparities Interest Group and have received money to travel to conferences and support their work.*
- *Bemis, Lynne UCD. Professor Bemis received the Chancellor's Recognition Diversity Award.*

### **Music & Entertainment Industry Studies**

- *Coe, Judith. UCD. Singer/Songwriter Ensemble Concerts and Photo Documentary Exhibit held at UCD on April 30, 2008.*
- *Coe, Judith. UCD. Presentation to Music & Entertainment Industry Studies Department, Faculty Meeting College of Arts & Media, Downtown Denver Campus. Friday, August 15, 2008.*
- *Coe, Judith. UCD. Presentation to College of Arts & Media, Faculty Meeting. Friday, September 5, 2008.*
- *Coe, Judith. UCD. Presentation to her department about the ISSOTL conference she attended. October 22, 2008.*

### **Undergraduate Experiences, the Provost's Office, and the Center for Faculty Development**

- *4<sup>th</sup> Annual Undergraduate Experiences Symposium, focusing on definitions of scholarship and faculty rewards*

# University of Colorado at Colorado Springs

## SCHOLARLY WORK

### *Peer-reviewed Journals, Periodicals*

#### **Visual and Performing Arts**

- MacAulay, Suzanne P. UCCS. "Lessons in Material Culture" in *Transformations: The Journal of Inclusive Scholarship and Pedagogy*, Vol. XVIII, No. 2 (Fall 2007/Winter 2008), pp. 120-130.

#### **Mathematics**

- Radu Cascaval, Kethera Fogler, Gene Abrams, and Robert Durham. UCCS. "Evaluating the Benefits of Providing Online Lectures to In-class Math Students." *Journal of Asynchronous Learning Networks*. In Press.

### *Peer-reviewed Conferences, International and National*

#### **English**

- Dew, Debra. UCCS. "Assessing the Impact of Individualized Writing Instruction on Writing Performance and Retention." International Society for the Scholarship of Teaching and Learning. Georgetown University. Washington D.C. November 2006.
- Dew, Debra. UCCS. "Theorizing Agency: Student Narratives of Institutional Critique as Actionable Grounds for Programmatic Change." Thomas R. Watson Conference in Rhetoric and Composition. Louisville, Kentucky. October 2006.
- Dew, Debra. UCCS. "Tracking the Impact of Individualized Writing Instruction on Writing Performance and First-Year Retention." Conference of the Council of Writing Program Administrators. Chattanooga, Tennessee. July 2006.

#### **Organic Chemistry**

- Schoffstall, Allen, Barbara Gaddis, Rosaura Padilla and Steven Horner. "Undergraduate Research in Chemistry: Is It Worth It?" The 20<sup>th</sup> Biennial Conference on Chemical Education. Bloomington, Indiana. July 2008.

#### **Visual and Performing Arts**

- MacAulay, Suzanne. UCCS. Professor MacAulay will present the findings from her PTLC research at the MUSE [Measuring Unique Studies Effectively] Conference. February 8-11, 2009

### *Local Forums, UCCS*

#### **Visual and Performing Arts**

- MacAulay, Suzanne. UCCS. Professor MacAulay will meet with her board of VAPA directors and will take time to discuss the PTLC and my experience as well as the full VAPA Faculty meeting on December 5, 2008.
- MacAulay, Suzanne. UCCS. Professor MacAulay will present the findings from her PTLC research at the MUSE Conference, 8-11 February 2009.

# Networking of the Collaborative Across the Campuses

## INTERCAMPUS SUPPORT FOR RESEARCHERS

### *Provosts involved with PTLC*

#### **CU Boulder**

- Phil DiStephano

#### **CU Denver**

- Roderick Nairn

#### **CU Colorado Springs**

- Margaret Bacon

### *Coaches involved with PTLC*

#### **CU Boulder**

- Clayton Lewis, Computer Science
- Mary Nelson, Applied Mathematics
- Erik Ellis, Writing and Rhetoric
- Steven Pollock, Physics
- Martin Bickman, English
- Rosalyn Zigmond, Writing and Rhetoric
- Kate Semsar, Integrative Physiology
- Valerie Otero, Education
- Francoise Benay, Integrative Physiology
- Jean Hertzberg, Mechanical Engineering

#### **CU Denver**

- Rod Muth, Education and Human Development
- Gail Armstrong, School of Nursing
- Deborah Thomas, Geography and Environmental Studies
- Ellen Stevens, Education and Human Development
- Carol Kamin, School of Medicine
- Gayle Preheim, School of Nursing
- Robin Michaels, Cell and Developmental Biology
- Judith Coe, Music and Entertainment Industry Studies
- Joanna Dunlap, Education and Human Development
- Christopher Turner, Pharmacy
- Donna Sobel, Education and Human Development

**CU Colorado Springs**

- Barbara Gaddis, Director of Excel Centers and Director of Student Retention

*Mentors involved with PTLC***CU Boulder**

- Alan Mickelson, Electrical and Computer Engineering
- Rosalyn Zigmund, Writing and Rhetoric
- Martin Bickman, English
- Sarah Taylor Hug
- Mary Nelson, Applied Mathematics
- Deborah Haynes, Art and Art History
- James Austin, Music Education
- Leslie Irvine, Sociology
- Dale Mood, Integrative Physiology
- John Basey, Ecology and Evolutionary Biology
- Daniel Liston, Education
- Michael Zimmerman, Center for the Arts and Humanities
- Bill Cherowitzo, Mathematics

**CU Denver**

- Gwyn Barley, Center for Advancing Professional Excellence
- Joe Huggins, Clinical Science
- Diane Skiba, School of Nursing
- Gretchen Guiton, School of Medicine
- Francis Jermance, Music and Entertainment Industry Studies
- Robert Valuck, Pharmacy
- Marianne McCollum, Pharmacy

**CU Colorado Springs**

- Ted Lamb, Institutional Research
- Suzanne MacAulay, Visual and Performing Arts
- Glen Whitehead, Music
- Steve Jennings, Geography and Environmental Studies

*Student associates involved with PTLC as research assistants***CU Boulder**

- 2007: 5 students
- 2008: 6 students

**CU Denver**

- 2007: 5 students
- 2008: 4 students

#### **CU Colorado Springs**

- 2007: 2 students
- 2008: 2 students

#### *Support teams for researchers*

Researcher: Suzanne MacAulay, UCCS, Visual and Performing Arts

- Mentor: Deborah Haynes, Mentor, UCB, Art and Art History
- Coach: Rod Muth, UCB, Education and Human Development

Researcher: Yvonne Kellar-Guenther, UCD, Communication and Evaluation

- Mentor and Coach: Rosalyn Zigmond, UCB, Writing and Rhetoric

## **NARRATIVES FROM RESEARCHERS**

### **Music & Entertainment Industry Studies**

- Coe, Judith. UCD. "My research assistant is an undergraduate who will graduate this semester and go on to do a master's degree. He is in my singer/songwriter ensemble and has an interesting story that we are also writing about, together. He has a slight speech impediment, with him since childhood; last semester, it starting showing up in his singing, highly unusual (people who stutter typically can sing without the stutter occurring). I worked with him on carry-over exercises (speech to singing and back; I worked as a music therapist for a few years) and other strategies in our lessons, and encouraged him to seek out a specialist to work with, to fight through it to be able to do his music (which is amazing). He has done that, and has an incredible story to tell. As a result, he believes that his songwriting, creative work, and his developing cognitive understanding of his condition and how that intersects with how he sees his future, is providing him with an enriched opportunity for personal and artistic growth (and I hear it in his singing/songwriting)."
- Coe, Judith. UCD. On her attendance at the ISSOTL conference in Edmonton in October 2008: "I was so pleased at the new contacts I made during ISSOTL in Edmonton. What a wonderful conference... it is a well-kept secret! People are sure resistant to change, innovation and exploration, aren't they?! We are beginning a campus-wide conversation on the very old school faculty reward system we have in place on my campus, and having attended this conference helped me clarify my own knowledge about and understanding of SOTL and its significance to students and faculty. Thank you, Mary Ann, for providing me with the travel grant so that I could attend and present!"

### **Department of Sociology and Institute of Behavioral Science**

- Mollborn, Stefanie. UCB. "I like being part of the PTLC because I am able to have conversations about educational research with people from other departments. The conversations are interesting because they include ideas about how to have innovative teaching within the particular constraints of this university, which include large classes and few TAs."

### **Program for Writing and Rhetoric**

- Bliss, Ann. UCB. "PTLC participation was also an excellent means of meeting colleagues from the other campuses, which has been a very rare experience in my career at CU Boulder. I believe that more such activities should be fostered, especially as my discussions with faculty from the Medical School (of all places) about their study helped me frame some of my research and my analysis. The PTLC colleagues offered expertise, materials, access to related topics, websites that became useful, etc. I hope my contribution to those colleagues was equally valuable."

## **CAMPUS OUTREACH**

### **Music & Entertainment Industry Studies**

- Coe, Judith. UCD. The College of Arts and Media will hold faculty-mentoring sessions during the Spring 2009 semester. Professor Judith Coe of the PTLC will present along with her colleague Professor Mary Connelly. This two-part mentoring session is centered upon the scholarship of teaching and learning. In the first session faculty mentors will present ideas for developing successful teaching and learning strategies while exploring opportunities for enhancing the scholarship of teaching. For the second session faculty mentors will assist participants in developing such things as, course learning objectives, project rubrics, the writing and submission of teaching and learning articles and proposals to present at teaching oriented conferences.

### **The College of Arts and Media**

- Coe, Judith; Stevens, Ellen; & Muth, Rodney. UCD. The College of Arts and Media has formed a scholarly teaching group that includes PTLC participants

## **COLLABORATIONS WITH PEOPLE FROM OTHER UNIVERSITIES**

### **Music & Entertainment Industry Studies**

- Coe, Judith. UCD. The Dean of Arts from the University of Alberta wants to do some consulting with Judith on her college's move toward a different arts and music curriculum.
- Coe, Judith. UCD. Two SOTL researchers from the UK, one architecture researcher and one graphic design researcher are looking at threshold concepts in the arts and would like to work with Professor Coe on developing their ideas.