

**President's Teaching and Learning Collaborative:  
The First Five Years**

**Fall 2010 Report & Index of Participants**

**President's Teaching and Learning Collaborative: The First Five Years**  
**Clayton Lewis and Mary Ann Shea, Co-Directors**

The President's Teaching and Learning Collaborative was established as a pilot program in 2006, and then as a full program following year. In the five years since, a lot has happened, in the collaborative, and in its environment. Here are some personal reflections on some of these developments.

The Carnegie Foundation for the Advancement of Teaching and Learning has changed its engagement with higher education.

PTLC was inspired by the activities of the Carnegie Foundation. An influential Carnegie monograph by the late Ernest Boyer called for emphasis on the "scholarship of teaching and learning" as a way to increase the value placed on the teaching role of faculty at research universities, and the Foundation mounted a number of initiatives in support of this idea. One of these was an alliance of institutions across the country, into which CU was invited on the strength of our PTLC program. The plans for PTLC were greatly influenced by valuable assistance provided by the Foundation, especially during a visit of CU faculty with Foundation staff in Palo Alto, arranged by Mary Ann Shea. It was clear that the Carnegie name was influential in securing an initial commitment from CU, and was an important benefit for PTLC investigators.

In 2008 Foundation President Lee Shulman stepped down, and was replaced by Anthony Bryk. While no official pronouncement was made of a change of direction, the Foundation spoke through its actions by restructuring its programs aimed at higher education, to focus its efforts on the K12 system, community colleges, and community engagement. The Carnegie Academy for the Scholarship of Teaching and Learning (CASTL), of which PTLC was part, is no longer operating.

While the withdrawal by Carnegie isn't a good thing, it has fortunately had little impact on PTLC. Up to now administrators at CU have felt that what PTLC is doing is valuable enough to support without the visibility provided by Carnegie.

PTLC has enjoyed consistent support from the system and campus administrations.

Administration support for PTLC is divided between the campuses and the system (the system role was a requirement imposed initially by Carnegie staff, who were interested in CU as an example of a multi-campus institution whose practices could be studied.) As I've just said, this support has been steady. Under Shea's direction, PTLC has been careful to document faculty participation in detail, including especially publications. Campus administrators have recognized the value of participation by their faculty and have supported it financially.

PTLC has seen steady interest and participation.

Faculty investigators have ranged from 14 to 20 each year since the pilot year. Numbers of applicants have been somewhat higher, allowing some degree of selectivity when new investigators are added. Happily, though, candidates still have quite a good chance of being accepted.

Referrals from past participants show positive impact.

Several participants have been encouraged to apply to PTLC by colleagues who have themselves participated. This is a wonderful development; as it shows clearly that faculty who have experienced PTLC find it so valuable that they encourage others to seek the opportunity.

PTLC has made adjustments in its operation in response to feedback from participants.

The basic plan for PTLC, in which faculty investigators are supported by faculty colleagues who know something about educational research, and who understand the investigator's discipline, and the whole community gathers from time to time to report progress, and provide mutual support. Participants have repeatedly told us that they enjoy this interaction, and especially the chance to meet and work with faculty from other campuses. Participants have also told us, though, that it is difficult to take the time to get to these all-campus meetings. In response, PTLC has appointed campus PTLC faculty liaisons/coordinators who provide meeting and education research knowledge development opportunities on each campus. We're also exploring the possibility of video conferencing to permit cross-campus interaction without travel demands. And who have themselves been a published researcher, peer reviewed, in PTLC.

PTLC participants are making more progress.

Over the years participants are defining better projects, are completing them more quickly, and are publishing their results more often. We think that some of these improvements are due to changes in PTLC procedure: more structure in the application process, which itself helps candidates get off to a good start; good input from past participants acting as coaches; more recognition and use of the basic coaching principles adapted originally from Carnegie staff; attention to key bottlenecks as revealed by early experience, especially the need for an early application for human research approval; and more good examples of investigators who have made everything work, up through publication.

CU's regents have placed added focus on teaching and learning.

Recently the Board of Regents gave special recognition to the teaching role of faculty, calling for study on the campuses of how this role can be promoted. All signs are that PTLC has developed over its five-year life as a very useful program, fully aligned with CU's commitment to learning. It's been great fun being a part of it!

The Collaborative has created a new seminar design with the Anschutz Campus Teaching Scholars Program (as distinguished from the President's Teaching Scholars Program). The plan provides seminars to Anschutz campus faculty researchers currently enrolled in the Collaborative. For example: "Searching the Literature: Pub-Med, Educational Databases, Online Repositories", "Targeted Needs Assessment/ Introduction to Survey Design", "Deadline for Curriculum Idea, Background and Plan for Needs Assessment".

Fall 2010 Addendum attached

**University of Colorado's President's Teaching Scholars Program:  
President's Teaching and Learning Collaborative (PTLC)  
Fall 2010 Addendum**

The University of Colorado President's Teaching and Learning Collaborative (PTLC) is an outgrowth of work begun as an institutional participant in the System Program of the Carnegie Academy for the Scholarship of Teaching and Learning (CASTL), 2006-2009. The Collaborative program is continuing to work to improve student learning by supporting faculty members as they engage in research inquiry in classroom teaching.

### **Distributed Leadership Model**

Beginning with the 2011 cohort, which had its launch meeting in September 2010, the PTLC moved to a distributed leadership model. System-wide PTLC meetings will be held at the beginning and end of each cohort year. In September we will hold launch meetings, and in May we will have end-of-year meetings. Monthly meetings are being held on the individual campuses. Faculty researchers greatly appreciate the monthly progress report meetings and the related new opportunities such as more closely tailoring the program for the researchers and greater involvement of library resources.

The current campus directors are

- Anschutz Medical Campus: Mary Jane Rapport, Mary Ann Shea and Clayton Lewis
- Boulder Campus: Clayton Lewis, Stefanie Mollborn
- Colorado Springs Campus: Elaine Cheesman, Kathy Andrus
- Downtown Denver Campus: Joni Dunlap, Rod Muth, Ellen Stevens

### **New PTLC Researchers**

#### *University of Colorado at Boulder*

- Professor Penina Alexrad, Department of Aerospace Engineering Sciences
  - Research project: *Activating Student Learning in Lecture and Homework Through Discourse*
- Professor Douglas Duncan, Department of Astrophysical & Planetary Sciences
  - Research project: *Laptops vs. Paper for Note taking in Class – Which Produces Better Learning?*
- Professor Alison Hicks, University Libraries
  - Research project: *Information Literacy en Español: Content Based Instruction and the Library*
- Professor Diane Martichuski, Department of Psychology and Neuroscience
  - Research project: *The Effects of Clicker Questions on Conceptual versus Factual Learning*
- Professor Lupita Montoya, Department of Civil, Environmental, & Architectural Engineering
  - Research project: *Application of Blackboard for Teaching and Learning Assessment in an Environmental Engineering Course*
- Professor Stacy Saturay, Leeds School of Business
  - Research project: *Lecture Capture and Student Success: Do Recorded Lectures Enhance Learning?*

#### *University of Colorado Denver, Anschutz Medical Campus*

- Professor Lynne Bemis, School of Medicine
  - Research project: *Developing an Introductory Module about Health Disparities for Medical Students*
- Professor Andy Fine, School of Medicine

- Research project: *Defining, Developing, and Evaluating Coaching Methods to Teach Communication Skills in the UCSOM Foundations of Doctoring Curriculum*
- Professor Kari Franson, School of Pharmacy
  - Research project: *Bringing Student Pharmacy Work Experiences into the Curriculum*
- Professor Kathleen McCartney, School of Pharmacy
  - Research project: *Evaluation of a Prospective Reflection Activity and Its Influence on Learning and Satisfaction in Participants of a Continuing Pharmacy Education Course*

*University of Colorado at Colorado Springs*

- Professor Radu Cascaval, Department of Mathematics
  - Research project: *Developing Computational Skills for STEM Majors within the Math Curriculum*
- Professor Julaine Field, Counseling and Human Services
  - Research project: *The Efficacy of the Counseling Laboratory Sequence*
- Professor Robert Gist, Department of Physics and Energy Sciences
  - Research project: *Appropriateness of Including On-line Homework in the Instruction of Physics at UCCS*
- Professor Mandi Sinclair, Department of Health Sciences
  - Research project: *Improving Critical Reading Ability of Athletic Training Graduate Students*

[www.colorado.edu/ptsp/ptlc/proposals](http://www.colorado.edu/ptsp/ptlc/proposals)

University of Colorado  
 President's Teaching and Learning Collaborative  
 Index

## 2006 to Present

### **INSTITUTIONAL CHANGE**

The PTLC is a program that guides faculty to publish research on teaching and learning. Faculty researchers work on educational research in collaboration with a coach and a mentor, and these triads are often made up of faculty from different campuses. Participants also meet as a group with all other researchers, coaches, and mentors six to eight times. At the end of their year with the PTLC, faculty researchers are expected to disseminate their findings through a peer-reviewed journal publication or conference presentation.

During and after their involvement with the PTLC, researchers also discuss their educational research with members of their department and colleagues at other institutions. Faculty researchers make presentations to members of their departments to inform them of the educational research they have undertaken because of the support of the PTLC. Some also give presentations to their colleges or other university institutions. Most faculty researchers are engaging in educational research for the first time, though all have engaged in research within their discipline. Because of their positive experience within the PTLC, participants express their hope that research on teaching and learning will gain esteem within the university.

In this document, you will find concrete examples of the ways the work of faculty researchers has spread beyond the PTLC. All of these examples of the dissemination of research on teaching and learning have potential ripple effects that spread beyond their immediate circumstances. One hope is that the work of faculty researchers generates interest in educational research so that other faculty members begin their own educational research investigations. The ultimate goal is that this research informs and improves education at the University of Colorado.

## **PTLC RESEARCH PROPOSALS**

**PTLC 2006 Cohort:** 6 proposals submitted and 6 accepted

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

**PTLC 2007 Cohort:** 19 proposals submitted and 16 accepted

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

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

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

**PTLC 2009 Cohort:** 22 proposals submitted, 18 accepted and 4 reapplications accepted (22 total, with 1 accepted applicant declining)

- CU Boulder – 9
- UC Denver – 10
- CU Colorado Springs – 2

**PTLC 2010 Cohort:** 14 proposals submitted, 12 accepted and 5 reapplications accepted (17 total, with 1 accepted applicant declining)

- UC Anschutz – 3
- CU Boulder – 8
- UC Denver – 3
- CU Colorado Springs – 2

**PTLC 2011 Cohort:** 15 proposals submitted, 14 accepted and 5 reapplications accepted (19 total)

- UC Anschutz – 4
- CU Boulder – 11
- UC Denver – 0
- CU Colorado Springs – 5

## **PTLC FACULTY RESEARCHER DEMOGRAPHICS**

**PTLC 2009 Cohort:** 21 total faculty researchers

- Female: 8 total – 7 tenure track, 1 instructor
- Male: 13 total – 10 tenure track, 3 instructor

**PTLC 2010 Cohort:** 16 total faculty researchers

- Female: 9 total – 5 tenure track, 4 instructor
- Male: 7 total – 5 tenure track, 2 instructor

**PTLC 2011 Cohort:** 19 total faculty researchers

- Female: 14 total – 9 tenure track, 5 instructor
- Male: 5 total – 2 tenure track, 3 instructor

## **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: 6 meetings occurred

PTLC 2009 Cohort: 6 meetings occurred

PTLC 2010 Cohort: 5 meetings occurred

PTLC 2010 Cohort: 9 meetings scheduled

PTLC Faculty Researchers Proposals for 2009 Cohort

Total 21 faculty researchers

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

PTLC Faculty Researchers Proposals for 2010 Cohort

Total 16 faculty researchers

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

PTLC Faculty Researchers Proposals for 2011 Cohort

Total 19 faculty researchers

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

# University of Colorado at Boulder

## SCHOLARLY WORK

### *Peer-reviewed Journals, Periodicals, and Books*

#### **Art and Art History**

- Haynes, Deborah J. UCB. Book chapter Deborah J. Haynes (author of article and book), "Vocatio," in *Book of This Place* (Pickwick Publications, 2009)
- Haynes, Deborah J. UCB. Book chapter "The Uses of Mindfulness and Contemplative Practices," in *The Dialogue of Art and Religion*, "Meditation in the Classroom: Contemplative Pedagogy in Religious Studies" (Albany: SUNY Press, forthcoming)
- Haynes, Deborah J. UCB. "Contemplative Practice: Views from the Religion Classroom and Artist's Studio," *ARTS Journal*, Fall 2009

#### **Computer Science**

- Lewis, Clayton. UCB. 2007 Attitudes and beliefs about computer science among students and faculty. SIGCSE Bulletin. 39, 2 (Jun. 2007), 37-41.
- Lewis, C., Jackson, M. H., and Waite, W. M. 2010. Student and faculty attitudes and beliefs about computer science. *Commun. ACM* 53, 5 (May. 2010), 78-85.

#### **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)

#### **Education**

- Eisenhart, M., & Jurow, A.S. (in press). Teaching qualitative research. In *Handbook of qualitative research*, 4th edition.
- Jurow, A.S., & Eisenhart, M. with Eyerman, S., Gaertner, M., Roberts, S., Seymour, M., Spindler, E., & Subert, A. (under review). Learning to be a qualitative researcher in education.

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

- 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," *International Journal of Modern Engineering*, Spring/Summer 2008 Issue.
- Mickelson, Alan. UCB. Published: D. Gurkan, A. Mickelson, and D. Benhaddou, "Remote Laboratories for Optical Circuits," *IEEE Transactions on Education* 51(1), 54-60, (2008).

#### **Sociology**

- Mollborn, Stefanie, UCB and Angel Hoekstra. Forthcoming in *Teaching Sociology*, January 2010. "A Meeting of Minds': Using Clickers for Critical Thinking and Discussion in Large Sociology Classes."

### *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. Published: 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).
- 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 Mickelson, 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.
- Mickelson, Alan. UCB. Presented "Assessment of Remote "Optical Circuits" Laboratory Using Embedded Measurement Techniques" with Driss Benhaddou at the 2009 ASEE Annual Conference and Exposition, Austin Texas, June 14-17 2009.

### **Mechanical Engineering**

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

### **Music**

- Cremaschi, Alejandro. UCB. Presentation titled, "Self-Efficacy: A key to achievement and motivation for music students" at the conference of the Music Teachers National Association in Atlanta. April 1, 2009.
- Cremaschi, Alejandro. UCB. Poster presentation titled, "Self-efficacy, practice, achievement and attitudes toward piano in music-major class piano students" at the conference of the Regional College Music Society in Denver. April 3-4, 2009.
- Cremaschi, Alejandro. UCB. Presentation titled, "Self-Efficacy" at the Texas Music Teachers Association annual convention in Dallas. June 2010

### **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.

#### **Art and Art History**

- Haynes, Deborah. UCB. Presentation about contemplative practices at the First Annual Association for Contemplative Mind in Higher Education Conference. Amherst, MA. April 24-26, 2009.
- Haynes, Deborah. UCB. Presentation about the science of meditation at an FTEP meeting, "Teaching Mindfulness Practices." Fall 2009.

#### **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*

**Computer Science**

- Lewis, Clayton, UCB, with M. Jackson and W. Waite. Presented a paper at a meeting of the Boulder PTLC participants entitled, "Attitudes and beliefs about Computer Science among students and faculty." June 2009.

**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.
- Stefanie Mollborn and Angel Hoekstra. "Pedagogical Practices for Using Clickers in Sociology." Presented to the University of Colorado at Boulder Department of Sociology. December 2008.
- Mollborn, Stefanie, and Angel Hoekstra. UCB. "New Research in the Pedagogy of Learning with Clickers." University of Colorado Conference on Teaching, Learning, and Scholarship in the Third Millennium University, 2009.

# University of Colorado Denver

## SCHOLARLY WORK

### *Peer-reviewed Journals, Periodicals*

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

- Grabinger, 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.
- Coe, Judith. UCD. Professor Coe will give a presentation about her PTLC research project entitled "Innovation and Narrative: Cloud Technology and Artifact-Driven Assessment in a College of Arts & Media" at the International Society for the Scholarship of Teaching and Learning (ISSOTL) Conference 2010. Liverpool, England, United Kingdom. October 19-22, 2010.

#### **Nursing**

- Rapport, Mary Jane. UCD. Rapport, M.J., Rodriguez, J., & Bade, M. (2010). Use of community volunteers to reinforce an educational philosophy in a DPT curriculum. *Journal of Physical Therapy Education*. In Press
- Thompson, Cathy. UCD. "The Effectiveness of Audio and Video Lectures on Knowledge Transfer, Student Engagement, and Student Satisfaction" will be presented at the 2009 ISSOTL Conference.

#### **Pharmacy**

- Brown, Kristen. UCD. A poster presentation will be given at the annual meeting of the American Association of Colleges of Pharmacy in Seattle, WA, in June, 2010.
- Turner, Christopher. UCD. A poster abstract was presented at the July, 2008 annual meeting of the American Association of Colleges of Pharmacy
- Turner, Christopher, UCD. "Authentic assessment of pharmacy student learning" will be presented at the 2009 ISSOTL Conference.

### *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.

#### **School of Medicine**

- 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.

#### **Nursing**

- Rapport, Mary Jane. UCD. Presentation about the PTLC at the Department of Physical Medicine and Rehabilitation (PM&R) Faculty meeting. This was presented as part of a discussion regarding professional development and about faculty promotion. The information was shared as part of an overall discussion on how faculty who have a primary emphasis on clinical practice can seek opportunities to learn more about teaching and learning and also get support for research in this area of academic scholarship. Professor Rapport described the program, the financial support, and the other support that can be gained through participation in the collaborative. February 2, 2009.
- Rapport, Mary Jane. UCD. Professor Rapport spoke about the PTLC with her Program Director in a recent meeting by updating the Director on her progress with the manuscript that will soon be submitted. They discussed how the PTLC has helped to provide necessary support for the graduate student and with the motivation to keep moving forward. Spring 2009.

#### **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*

#### **Education**

- Cheesman, E. A., Winograd, G. R., & Wehrman, J. D. (in press). Clickers in teacher education: Student perceptions by age and gender. *Journal of Technology and Teacher Education*.

#### **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.

#### **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.

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

#### **Counseling and Human Services**

- Field, Julaine. Professor Field will give a presentation at the American Counseling Association Conference about her project "The Efficacy of the Counseling Laboratory Sequence." New Orleans, LA. March 2011.

#### **Education**

- Cheesman, E.A. (2009, November). *Reading Skills of Pre-Service Teachers: Closing the Gap in Teacher Preparation Courses*. 60<sup>th</sup> Annual Conference of the International Dyslexia Association Orlando, FL.

#### **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.

#### **Geography and Environmental Studies**

- Vogt, Brandon. UCCS. Professor Vogt organized a paper session about Learning Communities at the March 2009 annual meeting of the Association of American Geographers. He also presented a paper entitled, "Measuring the Success of a New Physical Geography-Based Learning Community" at this session.

#### **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. "Art history, assessment, and ethnography." MUSE [Measuring Unique Studies Effectively] Conference. Savannah College of Art and Design. February 8-11, 2009.

### *Local Forums, UCCS*

#### **Chemistry**

- Weiss, David. UCCS. Professor Weiss gave a presentation about his PTLC research project to the Chemistry Department. Spring 2010.

#### **Education**

- Cheesman, Elaine. UCCS. Professor Cheesman gave a presentation about her PTLC research project to the Special Education Department. February 19, 2009.

#### **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.

- Smith, Curtis. UCCS. Professor Smith presented “Assessing Creativity” to a Teaching and Learning Center event. April 2009.
- Smith, Curtis. UCCS. Professor Smith gave a presentation about creativity at the Colorado Spring Fine Arts Center during Curiosity Unlimited. December 2009.

# Networking of the Collaborative Across the Campuses

## INTERCAMPUS SUPPORT FOR RESEARCHERS

### *Provosts involved with PTLC*

#### **CU-Boulder**

- Stein Sture

#### **UC Denver**

- Roderick Nairn

#### **CU-Colorado Springs**

- Margaret Bacon

### *Faculty members involved as advisors to the PTLC*

#### **CU-Boulder**

**Computer Science:** Clayton Lewis

**Sociology:** Stefanie Mollborn

#### **UC Denver**

**Education and Human Development:** Rod Muth, Ellen Stevens

**School of Medicine:** Robin Michaels

**School of Pharmacy:** Christopher Turner

#### **CU-Colorado Springs**

**Visual and Performing Arts:** Kathy Andrus, Suzanne MacAulay

**Geography and Environmental Studies:** Thomas Huber

### *Faculty members involved as coaches and mentors with PTLC*

#### **CU-Boulder**

**Anderson Language Tech Center:** Mark Knowles, Edwige Simon

**Applied Mathematics:** Mary Nelson

**Art and Art History:** Deborah Haynes

**Center for the Arts and Humanities:** Michael Zimmerman

**College of Music:** James Austin, Margaret Berg

**Computer Science:** Clayton Lewis

**Ecology and Evolutionary Biology:** John Basey

**Education:** Anne Di Pardo

**Electrical and Computer Engineering:** Alan Mickelson

**Engineering-Herbst Humanities:** Diane Sieber

**English:** Martin Bickman

**Integrative Physiology:** Francoise Benay, Dale Mood, Kate Semsar

**Mathematics:** Monica Geist

**Mechanical Engineering:** Jean Hertzberg

**Music:** Alejandro Cremaschi, Sue Williamson

**Physics:** Steven Pollock

**Research faculty:** Sarah Taylor Hug

**School of Education:** Daniel Liston, Valerie Otero

**Sociology:** Leslie Irvine, Stefanie Mollborn

**Writing and Rhetoric:** Erik Ellis, Rosalyn Zigmond, Anne Bliss, Pat Sullivan

### **UC Denver, Downtown Denver Campus**

**Center for Advancing Professional Excellence:** Gwyn Barley

**Clinical Science:** Joe Huggins

**Education and Human Development:** Joanna Dunlap, Rod Muth, Ellen Stevens

**Geography and Environmental Studies:** Deborah Thomas

**Music and Entertainment Industry Studies:** Judith Coe, Francis Jermance

**Psychology:** Mitch Handelsman

### **UC Denver, Anschutz Medical Campus**

**Medicine:** Carol Kamin, Gretchen Guiton, Robin Michaels

**Nursing:** Gail Armstrong, Gayle Preheim, Diane Skiba

**Pharmacy:** Kari Franson, Marianne McCollum, Christopher Turner, Robert Valuck

### **CU-Colorado Springs**

**Director of Excel Centers and Director of Student Retention:** Barbara Gaddis

**Education:** Elaine Cheesman

**Geography and Environmental Studies:** Steve Jennings

**Institutional Research:** Ted Lamb

**Music:** Glen Whitehead

**Physics:** James Burkhart

**Psychology:** Andrea Hutchins

### *Support teams for researchers*

**2008 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

**2008 Researcher: Yvonne Kellar-Guenther, UCD, Communication and Evaluation**

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

**2009 Researcher: Deborah Haynes, UCB, Art and Art History**

- Mentor: Suzanne MacAulay, UCCS, Visual and Performing Arts
- Coach: Clayton Lewis, UCB, Computer Science

**2009 Researcher: Curtis Smith, UCCS, Visual and Performing Arts**

- Mentor: Glen Whitehead, UCCS, Visual and Performing Arts
- Coach: Sarah Hug, UCB, ATLAS Research Associate

### *Cross-campus collaborations*

**Professors Suzanne MacAulay (CU-Colorado Springs) and Deborah Haynes (CU-Boulder)**

- Professor MacAulay is going host Professor Haynes for a presentation about her work at the CU-Colorado Springs campus

**Professor Lynne Bemis**

- Professor Bemis is working as a prospective board member of a “Challenge Grant” the Anschutz Medical Campus and CU-Boulder Department of Biology

## **NARRATIVES FROM RESEARCHERS**

**Civil, Environmental, and Architectural Engineering**

- Chinowsky, Paul. UCB. “I have been interested in making changes to education for quite a while. It’s something that I think is a problem in my field. Engineering education has fallen behind where it really should be. Improving teaching has been an interest of mine for quite a while, and I have

published articles on education. I have also been involved with ASEE [American Society for Engineering Education] for a long time. When I saw the call for proposals, it was timely.”

#### **Mathematics**

- Cascaval, Radu. UCCS. “Tenure has indeed been a great relief for me and my family. I am sure that being involved with the PTLC has added value to my dossier and to this outcome. Thank you for all you do with PTLC and for your continued support.”

#### **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 started 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!”

#### **School of Medicine, Department of Immunology**

- Cohen, John J UCD. The dissertation of a student of Professor Cohen's, Lisa A. Rabe, emanated from his PTLC research project. Her dissertation is entitled, “The Game of Science: A Grounded Theory of the Café Scientifique Experience,” and she is preparing publications based on this work.

#### **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.

### **Colorado Front Range Consortium**

- Professor Jean Hertzberg (UCB), Professor Janet Casagrand (UCB) and Professor Rod Muth (UCD) will attend a USAFA SoTL Celebration and Workshop in September 2009.

## **A RETURNING RESEARCHER**

### **Electrical and Computer Engineering**

- Mickelson, Alan, UCB. Professor Mickelson was part of the 2007 cohort and worked on a project to develop a formative assessment for an online laboratory in Optical Circuits. He has applied and was accepted to be part of the 2009 cohort with a new project about the content of a single-semester interdisciplinary course designed to prepare the students for fieldwork in a developing region of a developing country.
- As part of his 2009 project, Professor Alan Mickelson, ATLAS faculty member Revi Sterling, and ITP master's student David Espinoza recently traveled through the Napo River basin in the Peruvian Amazon to better understand and facilitate technical community development needs. They will be spearheading an e-education project this fall, involving three communities and expanding to several others. They made a 6 minute and 40 second video vignette (together with the Center for Advanced Engineering and Technology Education (CAETE)) of their Summer 2009 recent working trip (partially funded by PTLC funds, partially by Service Learning, partially by Outreach and Revi Sterling's portion funded by ATLAS) to Amazon Peru. They hope to disseminate their video vignette as widely as possible to generate interest in problems of the Amazon and support for their Information and Communication Technology for Development (ICT4D) project: The Napo River Project (NapoNet), URL: <http://www.youtube.com/watch?v=X7t71DDNOnY>