

Education Working Group

Objectives 5-7

August 16, 2006

10:30 AM – 12 PM

Objective 5. Improve undergraduate climate education			
Action	When Complete	Who	How contributes
Teach new introductory class focusing on GCC	October 1, 2006	Drossman	One new course developed
SALG Evaluation of GCC class	October 1, 2006	Drossman	Improve future offerings of class
Design Block 5 Air class w/ grad student	October 1, 2006	Drossman Grad fellow	Improve class content for UG's & provide pedagogical training for grad student
Teach and evaluate Block 5 Air class w/ grad student	March 1, 2007	Drossman Grad fellow	Improve class content for UG's & provide pedagogical training for grad student
Recruit CC block research student	December 1, 2006	Drossman Denning	Research experience contributes to learning by student and peers through seminars, theses Diversity goal?
Design and advertise CC summer student internships	January 1, 2007	Drossman Denning	Research experience contributes to learning by student and peers through seminars, theses Diversity goal?
Review and offer CC summer positions	March 15, 2007	Denning	Research experience contributes to learning by student and peers through seminars, theses Diversity goal?
Design and advertise CC Spring scholarship	October 15, 2006	Drossman	Intern experience contributes to learning by student and peers through seminars, theses Diversity goal?
Select CC Spring scholar	December 1, 2006	Drossman	Intern experience contributes to learning by

			student and peers through seminars, these Diversity goal?
Monitor # underrepresented groups in GCC class		Drossman	

Metrics:

- Number of new courses developed and implemented in the classroom
- Student evaluations of new classes
- Number of students from under-represented groups participating in climate presentations through CO-AMP

Objective 6. Enhance graduate education and research in climate science			
Action	When Complete	Who	How contributes
Fund 19 graduate student researchers	Fall 2006, ongoing	CMMAP	
Implement alternative summative assessment (SALG?) in several ATS grad classes w/ grad student feedback	Fall 2006; ongoing	Denning ?	Provides better evaluation of classes
Allow grad student feedback on summative assessments	Fall 2006; ongoing	?	Provides more authentic evaluation of classes and opportunities for oral feedback
Grad student CIPP internships	2007; ongoing	Kathlene	Provides opportunities for grad students to gain experience and enhance communication skills
Opportunities for grad students to work with UCAR as W2U interns		Foster	
Improve climate classes	Fall 2006; ongoing	Denning	
Develop new climate classes		Denning	
Extended-duration policy “internship”			
Enhance the motivation of grad faculty about teaching	ongoing	Grad Faculty	
Plan workshop on balancing	?	Johnson	

professional/personal interests			
Share graduate level curricula among CMMAP institutions	Year 1	Grad Faculty	
Design graduate class rubrics for major assignments and/or requirements	ongoing	Denning	

Metrics:

- Number and diversity of graduate students supported by CMMAP
- Participation of CMMAP-supported graduate students in summer research institutes
- Peer-reviewed publications led by CMMAP graduate students

Objective 7. Teach next generation of leading climate scientists to be better teachers			
Action	When Complete	Who	How contributes
Design criteria for grad student exchange for CC Air class	October 1, 2006	Drossman Denning	Improve content & pedagogical training for grad student
Advertise for grad student exchange for CC Air class	October 1, 2006	Drossman Denning	Improve content & pedagogical training for grad student
Set criteria for grad student exchange for CC Air class	October 1, 2006	Drossman Denning	Improve content & pedagogical training for grad student
Interview grad student finalists for exchange for CC Air class	October 1, 2006	Drossman CC Colleagues	Improve content & pedagogical training for grad student
Design CC Air class w/ grad fellow	January 15, 2007	Drossman Grad fellow	
Design hands-on seminar on applying for academic position	?	Drossman Denning	
UCAR summer poster session	Summer 2007	UCAR	
Technical writing seminar (proposals; journal articles; policy briefs)	?	El-Hakim	
Mentor CC undergrad researchers	Spring 2007	CSU Grad	

	Summer 2007	students/profs	
Hands-on seminar on teaching skills		El-Hakim	
Opportunities for grad students to work with school teachers	Fall 2006; ongoing	ED	Opportunities for grad students to work with school teachers
Opportunities for grad students to work with LSOP	Fall 2006; ongoing	Jones	Opportunities for grad students to work with LSOP

Metrics:

- Number of student interns in LSOP programs
- Participation of CMMAP-supported scientists and students in pedagogical instruction and mentoring programs
- Number of CMMAP-supported Ph.D.s who go on to teach