## Midwest Association of Graduate Schools meeting March 30-April 1, 2011

CIRTL—NSF-funded Center for the Integration of Research, Teaching and Learning -coordinated and started in 2003 at Univ of WI-Madison—The Delta Program in research, teaching and learning.

-Mission is to develop a national STEM faculty committed to implementing and advancing effective teaching practices for diverse student audiences as part of their professional careers.

-6 CIRTL national network members: Vanderbilt, Howard, MSU, U WI-Madison, Univ Colorado-Boulder, Texas A&M Univ.

-Core Ideas: Teaching-as-Research-assessing student performance; research assistantships in teaching

**Learning Community** 

Learning-Through-Diversity

Impact on the institution-

legacy of enhanced learning on campus
growth of teaching and learning community
enhanced research mentoring and undergrad education
[Pfund et al. Science 11, 473 (2006)]
expanded impact of graduate education
enhanced recruitment of grad students and post-docs

Proposal now open to recruit 19 additional schools into a new cross-network learning community. NSF proposal for 2012 funding—to establish local CIRTL programs. New schools will have access to developed program resources and evaluation instruments, communities of peers. Need to develop at least 1 DL course to join!!

April 22, 2011 Letter of Intent deadline May 20, 2011 Video/telcon for Q&A May 27, 2011 Application deadline

Visit <a href="www.cirtl.net/expansion">www.cirtl.net/expansion</a> or contact Bob Mathieu at mathieu@astro.wisc.edu

## Professional science masters: quality assurance and approval processes Sally Francis, CGS; Bill Wiener, CGS

- 1995 CGS and Sloane Foundation funding established PSM program; CGS gives affiliation to PSM programs.
- PSM aligns to the Path Forward report. PSM goal is to prepare students for careers (business, industry, government, not just for PhD etc). "Science Plus"
- \*\*\*Approval will be an internal CGS function.
   PSM programs must show or have
  - Regional accreditation (HLC-NCA)
  - Goals and structure; student learning outcomes (what he/she will be able to do when complete the program); a balance of curricular content between research and professional skills plus expected curriculum for masters degree at that school; connection with community, and internal and external review process.
  - An Advisory Board (6-12 members)-industry and non-profit community, faculty
  - Program should be majority science with ~20% professional skills; capstone or internship essential (\*\*integration of science and professional skills)
  - Program quality assurance: program approved by institution and has ongoing program review.
    - Collection of annual data: enrollment, # degrees granted, completion rate, student demographics, employment record of graduates. \*\*Tracking over time by University.
- Emphasize written and verbal communication skills, leadership and team building in professional settings.
- Multiple PSMs/campus can share ethics/management courses, advisory board

## Approval process for PSM programs

- Submission: www.sciencemasters.com for application form ("apply for affiliation")
  - Process:
    - 2 CGS deans and 1 staff will review
    - Will contact University for clarifications
    - Team will confer on findings; external consultant, if needed
    - Final determination made and sent to University
    - Affiliation confers the PSM branding (logo) on degree

For questions, contact: sfrancis@cgs.nche.edu