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DBER Speaker Series

Discipline-Based Education Research Group

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## Discipline-Based Education Research (DBER) Group Meeting – Monday, October 24, 2011

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## Discipline-Based Education Research (DBER) Group Meeting — Monday, October 24, 2011

### AGENDA

#### 1. Welcome & Introductions

Name, Dept, research interest, what you hope to gain from participating in DBER Group meetings

#### 2. Purpose & Schedule for remaining part of the semester

##### a. Alternate times you are available to meet this semester

Please indicate your alternate available times on the bottom of this agenda, and return to Leilani.

##### b. Volunteers to present their research or facilitate discussion on peer-reviewed science education research article with relevance to, applications in, or implications for undergraduate science education

Week of Mon. Oct. 31: Dr. Marilyne Stains (CHEM Dept) on “TBA”

Week of Mon. Nov. 7: CHEM Ed graduate student Jonathan Velasco on “TBA”

Week of Mon. Nov. 14: Dr. Leilani Arthurs (EAS Dept) on “Identifying Alternate Conceptions and Utilizing Them to Construct an Oceanography Concept Inventory”

Week of Mon. Nov. 21: Dr. Hannah Sevian (invited) on “NSF Programs in Ed & Human Resources”

Week of Mon. Nov. 28: Dr. Elizabeth Lewis (TLTE Dept) on “TBA”

Week of Mon. Dec. 5 (last week of classes): Dr. Eric Malina (CHEM Dept) on “ACE 4”

#### 3. Questions & Open Forum

### Information & Announcements Shared During Meeting

1. A handout was distributed to describe the vision for DBER meetings. (It is included in this file as the 2nd page.)
2. To access the DBER group on Blackboard:
  - (i) Find “My Organizations” on the right-hand side of the Blackboard screen after you log on.
  - (ii) Under “My Organizations”, select “Nebraska Science: Nebraska Science” .
  - (iii) Under “Content Collection: Organization Content”, select “DBER”.
  - (iv) Select the folder labeled “Fall 2011” to both post and find materials (such as articles up for discussion, flyers for events announced by DBER participants, etc.)
3. Kevin Lee invited a speaker from the University of Michigan, who will speak about technology and education on November 9th. He will share details via DBER’s Blackboard, by group email or posting to the “Fall 2011” folder.
4. Our next meeting will be on Monday, October 31, in Bessey Hall Room 109. Marilyne Stains will summarize and facilitate discussion on an article now available on DBER’s Blackboard. It is titled, “Facilitating Change in Undergraduate STEM Instructional Practices”.

## Discipline-Based Education Research (DBER) Group



DBER group meetings are intended to promote discussion about science education research and findings, primarily conducted at the undergraduate level, as well as about their potential applications and implications. The meetings are intended to bring together those who conduct education research in their scientific disciplines at the undergraduate level. This includes faculty, post docs, graduate students, and undergraduate researchers. Also welcome are those who are generally interested in and support science education research at the undergraduate level.

These meetings are intended to be casual, yet productive. The list below is provided as a means to illustrate several possible options for productively discussing discipline-based education research. The list also serves to further communicate what we envision for our DBER community. It is not, however, exhaustive and other ideas are welcome.

### Examples of How to Utilize DBER Meetings:

#### Option 1 – Presentation of Personal Research

- What:** You deliver a PowerPoint or other type of presentation that addresses your past, current, or proposed research activity.
- Purpose:** For current and proposed research, use DBER community as a sounding board; receive feedback; and brainstorm ideas for how to proceed, what data-to-date mean, and why results might be significant. For completed research, share research methods, findings, and applications with others in the community; practice potential talk for a professional meeting or conference and get feedback; etc.
- General Format:** You have up to 30 minutes to give your presentation. The remaining time is dedicated to discussion of your presentation. If you would like to have any supplementary material (e.g., handouts, a well written peer-reviewed journal article relevant to your research) distributed to DBER participants prior to your presentation, then please post them on Blackboard at least 7 days before the DBER meeting.

#### Option 2 – Facilitation of Discussion on Peer-Reviewed Paper

- What:** You facilitate discussion of a peer-reviewed journal article that is relevant to your research and/or that you think others interested in discipline-based education research might find useful or interesting.
- Purpose:** Facilitate dissemination and discussion of research findings by others in the U.S. and internationally. Consider potential applications and implications of others' research findings to DBER research conducted at UNL. The preferred focus of the paper is undergraduate science education.
- General Format:** Steps involved with this option are as follows:  
(1) Select a well written peer-reviewed journal article. (2) Prepare a list of questions for discussion. (3) Post the journal article and the list of questions to Blackboard at least 7 days before the DBER meeting. (4) At the DBER meeting, you have up to 20 minutes to summarize key points of the article and explain how it relates to your research and/or why it is significant. (5) After you present your summary, you facilitate group discussion based on the list of questions that you prepared.

#### Option 3 – Invitation of Guest Speaker

- What:** You invite someone in the DBER community in or outside of the UNL campus to speak.
- Purpose:** Similar to Option 2 above.
- General Format:** You introduce the guest speaker. Guest speaker has up to 30 minutes to present. You facilitate Q&A period in the remaining time.