

Chapter ii
Conference Schedule

PERC Conference 98
August 1-2
University of Nebraska-Lincoln

**Physics Education Research Conference
Hardin Conference Center**

33rd and Holdrege Streets
Lincoln, NE

9:00 am - August 1, 1998
4:00 p.m. - August 2, 1998

Schedule of Events

Friday, July 31, 1998

8:00 p.m. **Pre-conference Rap Session:** Valentino's Pizza Restaurant across the street from the Hardin Center.

- Discussions and introductions coordinated by UNL graduate students, Cecilia Hernandez, Rebecca Lindell Adrian and Tom Koch. Everyone's invited, \$3 per person for pizza buffet, dessert and non-alcoholic drinks. Beer extra.

Saturday, August 1, 1998

9:00 a.m. **Registration**, Second Floor Lobby, Hardin Center

- Set up posters. Each team(person) is encouraged to bring a poster about their current work.

10 a.m. **Opening Session**, North Platte Room, Second Floor, Hardin Center.

- **Welcome** to UNL Dignitaries who have contributed funds to support the Conference. Chair: R. Fuller, UNL.
- **Some Methods for Research on Teaching and Learning** - presentations and discussion of content from other disciplines that may be useful to researchers in physics education.

Aspects of Validity in Quantitative Research

Dr. Gregory Schraw, UNL

The Basics of Qualitative Research

Dr. John Creswell, UNL

11:30 a.m.- **Break to look at posters** - Second Floor Lobby, Hardin Center

Saturday, August 1, 1998 (continued)

12:00 - **Lunch** - Nebraska Room, Hardin Center

- Luncheon Speaker- **Arnold Arons, Univ. of Washington**
Research in Physics Education: The Early Years

1:30 p.m.- **Research and Development Projects We Are Now Doing**, North Platte Room, Second Floor, Hardin Center.

- Physics education groups are almost unique among the research groups in physics in that these groups often include both research and development activities. This session will, we hope, provide us a image of the total R and D landscape in physics education at this time. Each research team(or person) will be given a few minutes to point out their research and development efforts and tell about their posters. Each group(or person) will be asked to prepare a one page printed page to be included in the conference proceedings and to distribute in the conference packet. Chair Jeff Adams, MSU. Role Model and First Presentation...Greg Francis, MSU

3:15 p.m. **Break**

3:30 p.m. **Twelve to Twenty Contact Hours and Research Too**, North Platte Room, Second Floor, Hardin Center.

- A panel presentation and discussion by Beth Thacker, GVSU, David Maloney, IUPUI, and Randy Harrington, UME, on doing research in special RPE environments . Chair: Bob Beichner, NCSU

4:45 p.m. **But How Do We Pay for All of This?** North Platte Room, Second Floor, Hardin Center.

- A panel presentation and discussion by Dean Zollman, KSU, David Hestenes, ASU, and Jack Hehn, NSF, on seeking and obtaining funds for RPE. Chair John Risley, NCSU

6:00 p.m. Adjourn for dinner

6:30 p.m. **Dinner** at the East Campus Student Union.

- Banquet Speaker: **Dr. Sharon Hays, AAAS Congressional Policy Fellow**, personal staff of Congressman V. Ehlers, Chair of the National Science Policy Study Committee of the U.S. House of Representatives
The US National Science Policy Study with discussion to follow.

8:30 p.m. (until ???) **Graduate Students Present and Discuss Their Current Thesis Research**, East Campus Student Union.

- Note: presenters may be limited to students who have passed all the hurdles prior to Ph.D. candidacy and are now full time research PhD students, or part time TAs whose full time research work in for their dissertations. Chair, T. Koch, UNL

Sunday, August 2, 1998

9:00 a.m. **Brunch**, Nebraska Room, Hardin Center.

10:30 a.m. **Frontiers in RPE**, North Platte Room, Second Floor, Hardin Center.

- A panel presentation and discussion by Bruce Sherwood, CMU, Alan Van Heuvelen, OSU, Ron Thornton, Tufts, and Jose Mestre, UMA. Chair James H. Stith, AIP.

12:00 p.m. **Box Lunch and Discussion**, Nebraska Room, Hardin Center

- Discussion on publishing research in physics education including the Journal of Physics Education Research led by Joe Redish, UMD, and Lillian McDermott, UW. This session was not recorded. (For information about this discussion, contact redish@quark.umd.edu)

1:30 p.m. **Forming a Consortium on Physics Problem Solving**, Nebraska Room, Hardin Center discussion led by David Hestenes, ASU.

2:00 p.m. **Concurrent Research Tutorials**

- **Instructional materials based on research using learning cycles (ala Piaget and Karplus)** - Dean Zollman and N. Sanjay Rebello, KSU, York Room, Second Floor, Hardin Center. (for information about this tutorial contact dzollman@phys.ksu.edu)
- **Context Rich Problems - Using Education Research to Construct Useful Physics Problems** - Ken and Pat Heller, UMN, Fremont Room, Second Floor, Hardin Center. (for information about this tutorial contact heller@mnhep1.hepumn.edu)
- **Developing and Learning From Interviewing Protocols** - Joseph Stimpfl, UNL, Hastings Room, Second Floor, Hardin Center. (for information about this tutorial contact jstimpfl@unlinfo.unl.edu)

3:30 p.m. **Final Discussion-Lone Rangers Get Lonely: Getting Your RPE Team Larger than One Professor**, North Platte Room, Second Floor, Hardin Center.

- Featuring representatives of groups with more than one tenured faculty person who is actively engaged in RPE. Risley and Beichner(NCSU), Mestre(UMA), Heller and Heller(UMN), and Sherwood and Chabay(CMU) - chair, Robert Fuller, UNL.

4:00 p.m. **End**

