

**Pre-Service Working Group Telecon
February 2, 2006, 3 p.m. eastern**

Attending:

Jennifer Grier
Anita Krishnamurthi
Elaine Lewis
Lynn Narasimhan
Katharine Perrow
Laurie Ruberg
Tim Slater
Stephanie Shipp
Christine Shupla
Denise Smith
Stephanie Stockman
Bill Waller

Others???? Schultz, Lombardi, Runyon

Agenda

May Working Group "Advance" – Dates and Objectives
Pre-Service Faculty Survey
ASTE Outcomes
Upcoming Conferences:
 Langley Pre-Service Conference
 ATE
"Local" Efforts – Objectives, Outcomes – Pooling What We Learn

Overview of Discussion Points

- Shupla has compiled a survey for pre-service faculty that has been used at ASTE and will be used at ATE. It has been circulated to the working group and comments received – others are appreciated in the next few weeks. The survey will be placed on the Web; ASTE has offered to invite their constituents to complete the survey when it is online. Grier: survey is good, but do not make it longer. Consider making a shorter version.
- Shupla reported out on ASTE. A conference report is on the Web.
- Ruberg, Eisenhamer, and Smith are attending the NASA Langley Pre-Service Conference.
- Shipp and Shupla are attending ATE (educator workshop, clinic, exhibit booth)

Working Group Retreat

- Planning on a working group "advance" May 8-10 in West Virginia; Ruberg and Perrow are working on location logistics.

Objectives / Outcomes

- Analyze data collected from national and regional audiences to identify needs
- Identify existing models that can meet those needs
- Identify gaps
- Identify concrete, meaningful "menu of opportunities" in which SMD community can be involved in pre-service preparation
- Identify potential collaborators and necessary resources for each project
- Create a timetable of action for the next 3-5 years

- Working Group joined by those conducting pre-service (Pre-Service Community)
 - Committee members including Tim, Rudy, etc.,
 - Other possible attendees include ASTE members: Richard Shope Terry Lashley, Violetta Lien of TSU
 - Jane Zinger (sp?) recommended by Elaine
 - Curriculum developers/publishers? (discussion by Tim, Anita, Lynn, and Stephanie Stockman--perhaps for future retreats, but not this one)
 - Foundation members and representatives of program from Pittsburgh (University of Pittsburgh), recommended by Laurie
 - Carnegie? (doing research)--recommended by Tim
 - Peter Holden?
 - Office of Ed? K-12? Higher Ed?

To Do:

Contact Stephanie, Laurie, Denise with suggestions for participants. Some travel grants are available

- Preparation
It is critical that we come to the table with the results our efforts in the last year of gathering information from the different communities with which we have worked!

To Do:

Each WG member needs to work with their communities and survey those communities' needs.

Share your survey tools. Circulate or send to Shupla or Shipp to post on the Web.

- Each participant will bring data on their pre-service efforts to share
 - Examine data for commonalities, see where they align and where there are the gaps – move toward identifying / creating specific opportunities
 - Examples of pre-service sciences/syllabi
 - Differences between college of education and college of science
 - Elementary, middle and high-school differences
 - Ruberg will present what Pittsburgh and NASA/Langley are doing
 - Waller will highlight Wheelock's program
 - Slater will explore University of Phoenix's distance-learning program
 - [Narasimhan will talk with Langley/Aeronautics](#)
 - Stockman – Goddard Pre-Service Working Group and University of Maryland
 - Krishnamurthi - University of Maryland programs
 - Slater – dean's organizations
 - Shipp and Shupla – ASTE, Sampling of universities and colleges in SCORE region; TX Collaborative

Additional Discussion for the Retreat Focus

- Ruberg - National prospective from schools? Lynn brought up that schools are under fire, and we might fail to get information that we could act upon
- Narasimhan: - will explore standards with faculty and will contact NASA's K-12 Education folks to see who is working in pre-service (used to be Bernice Alston; currently Mike Greene?)
- [Jennifer could talk to MD Space grant pre-service program; doing master's in-service](#)

- Consider a share-a-thon of exemplary lesson plans based on science concepts are we trying to teach. Match lessons to needs.
- Dean/college buy-in – what is necessary?
- Should we be looking outside the US? (not yet, unless they have exemplary models we would like to examine)