

Pre-Session: sponsored by the Wyoming School-University Partnership [www.uwyo.edu/wsup](http://www.uwyo.edu/wsup)

## Thursday February 5<sup>th</sup>

6:30-9:00 p.m. Dinner and a Book, The 303

Registration limited to 20; dinner, book, and Thursday lodging provided free. Receive a free copy of Alfred Lubrano's *Limbo: Blue-Collar Roots, White-Dollar Dreams* to read in advance. Then, enjoy a discussion about the book with colleagues over dinner. Lubrano writes about the challenges students face when their educational experiences shock them and their identities change. For many students, being successful at school means rejecting the values of their parents and home communities. Such issues undermine academic success in math and other content areas. The book and dinner are free.

## Friday, February 6<sup>th</sup>

8:30-11:30 a.m. Body of Evidence Workshop; Join secondary and postsecondary colleagues for a workshop focused on body of evidence in math. The session will be guided by an *Understanding by Design* framework. Workshop leaders include Alan Moore and Bill Herrera from the Wyoming Department of Education and Bob Mayes from the UW Science and Mathematics Teaching Center, and Bryan Shader, UW Mathematics Department. **PS 209**

11:30 – 12:45 Registration & Lunch - **PS 103**

12:45 - 1:00 **Welcome** – Carmen Simone, PhD Vice President of Instruction and Debra Swedberg, Site Coordinator

## 1:00 – 1:50 Session I

**Sharing session: Maple Activities in the classroom:** See what these teaching Masters do with this CAS. Learn from the best! Elaine Parks, LCCC and Kendall Jacobs, CC **PS 106**

**STEM/ QR:** The SMTC has recently been awarded a number of state and national level grants focusing on improving the learning and teaching in STEM disciplines. This session will provide an overview of the projects and offer time to discuss how K-12 schools, colleges, and the university can collaborate on these and future efforts. Bob Mayes, UW **PS 107**

**Statistics:** The trials, tribulations and good parts of using an online text for introductory statistics. All is need is a projector with computer hook-up, Chris Pretz, UW **PS 111**

**Science Folks: Get to know each other and organize thyselfes! PS 119**

**Special Tour: Uranium Mine Tour to leave Casper College Campus @ 2:00 pm, returning between 5:30-6:00 p.m.**

## 1:55 -- 2:45 Session II

**Sharing Session: Distance Education** courses in Math and Science - Paul Marquard, physics and engineering and Susan Nelson, math recognized as Casper College's most recent distinguished DE instructors in 2008 and 2007 respectively **PS 106**

**Science Posse:** The *Science Posse* is a group of graduate students from the University of Wyoming with a passion for math and science. Learn how you can utilize the resources of the Science Posse in your classroom to teach lessons in vector calculus, cryptography, and much more! Megan Schnorenberg, UW **PS 111**

\*\*More "session II" topics on the next page ....

## 1:55 -- 2:45 Session II (con't)

**Alterations to STAT 2050/2070: A Template:** Rationalizing the "topic-by-topic" approach of textbooks into a coherent whole presented in the way a working statistician would actually perform the procedures was the biggest challenge in setting up first semester statistics as the basis for higher level courses. We feel we have achieved that through a combination of methodology with new statistical programs written for the TI-83/84. We will be glad to share the methodology and these new calculator programs with interested faculty from all the other community colleges. Raymond Steinbacher and Brook Russell, CC **PS 224**

**Learning styles: Hearts, Diamonds, Squiggles or .** What is your learning style and those of your students and how does this impact how you teach? – Jared Bowden **PS 209**

## **2:45 – 3:15**

**Break at the TATE Museum – Russell Hawley will give a tour; bus will be provided at the 2<sup>nd</sup> floor East entrance; snacks provided.** The Tate Geological Museum is an educational resource center for Earth Science students, faculty, and interested visitors. We have a diverse collection of rocks, minerals, and fossils from Wyoming and other classic localities. Our prep lab is visible from the gallery and visitors can watch preparators work on specimens collected over the summer months. Right now, we are finishing up our mammoth and working hard on two dinosaurs.

## 3:15 - 4:05 Session III

**Matlab Basics and using this in under-grad Geology classes:** Learn the basics of this useful CAS, with a Q & A session to follow. As time allows, discuss CC2UW Ken Dueker, **UW PS 106**

**Changes in Math and Seminar Courses for Elementary Education Majors:** During this session, we will continue our discussion about the mathematics and associated seminar courses for elementary education majors. We will share information about the recent changes to the math sequence. In addition, we will facilitate a discussion about the seminars, including the opportunity for people to learn about how

the seminars are being taught at our various institutions, exchange classroom ideas, and offer perspectives on the purpose of the seminars.

Facilitators: Bryan Shader and Lynne Ipina. **UW PS 119**

**Discussion: Transference from the math class to the science class.** How can we help students transfer knowledge from math to the sciences? We have begun this conversation at Casper College. Add your ideas and ask your questions. Facilitators: Paul Marquard and Jared Bowden, **CC, PS 209**

**Tour of the Math Lab – Deanna Schaff, CC PS 104**

## **4:05 - 5:00**

***WyMATYC meeting PS 107 all are welcome ☺***

- 5:30 – 6:30 **Social Hour** – Casper Petroleum Club – 1301 Wilkins Cir
- 6:30 – 7:30 **Dinner** – Casper Petroleum Club – enjoy salad choices, baked chicken, shrimp and carved brisket with veggies and an assortment of desserts.
- 7:45 – 9:00 pm Convene to the **Casper Planetarium** for a customized trip through the Universe; 904 N Poplar St Kendall Jacobs, CC

## *Saturday, February 7<sup>th</sup>*

- 7:45-830 Math contest organizers meet in PS 214
- 8:00 - 8:30 **Continental Breakfast** 2<sup>nd</sup> floor Physical Science lounge area
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|------------|--|
| 8:30-11:30 | <b>Physics meet in PS 208/209</b><br><b>Chemistry meets in PS 202</b><br><b>Geology meet in the TM 121</b> |
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## 8:30 - 9:20 Session I

**DVST conversation:** Let's begin again, that conversation of our Math 0920 and Math 0930. What do we teach at the various campuses? What textbooks do we use and how many credits do we offer? Curriculum and pedagogy; meet Wyoming's ACCESS Fellows: Lourdes Pajo, NW, Kira Heater, LCCC, Nancy Nichols, LCCC and Sarah Stanley, WWCC **PS 209**

**Hawkes Learning Experiences in Math 1400:** see the results of using the Hawkes learning system software in all of the College Algebra sections from fall 2008, Bill Weber UW **PS 224**

**REUs Fostering Undergraduate Research in Mathematics at UW---A New Summer Program:** In this talk I will describe a new summer program at UW aimed at undergraduates in the mathematical sciences. The main goal of the program is help teams of undergraduate students understand, attack, and solve legitimate research problems in mathematics. I will discuss some structural features of the program, and I will also describe the nature of the mathematical themes on tap for the summer of 2009. Greg Lyng, **PS 216**

## **9:20 - 9:35 Break**

Snacks in the 2<sup>nd</sup> floor Student lounge area

## 9:35 - 10:25 Session II

**TBA** – Sure to entertain – listen to what is fun and exciting in the world that is Farhad, Jafari, UW **PS 209**

**A second semester of Statistics: Data analysis with SPSS (hands on)** Advanced data analysis [multiple variable ANOVAs, Regressions, and ANCOVAs] are easy to perform using a menu-driven point-and-click program like SPSS. With a proper foundation in basic statistics, you can learn to do advanced analysis easily. You can choose to participate in a hands-on follow along introduction to SPSS in our computer lab--to see the "power" a computer system brings to statistical analysis. Ray Steinbacher **PS 224**

\*\*See next column fore more session II topics

## 9:35 - 10:25 Session II (con't)

**Projects in the classroom:** Hear how projects in your classroom can challenge and bring out the best in student learning. Ray DeWitt, EWC **PS 214**

## 10:30-11:20 Session III

**"WeBWork - An Online Homework Software"** Tired of grading? Feel that need to still assign homework but can't read students' writing? Listen to one way that UW has chosen to assign homework but not be bogged down. John Spittler **PS 224** (subject to change)

**Beyond Crossroads Workshop,** a State-wide assessment: with two levels, for Math 0920 and 1400 of assessment, this group of faculty which represents five of the higher learning institutions in the state. See what this group has done so far; get involved. Panel discussion and presentation. There will be a follow-up work session from 12:00-2:00 p.m. All are welcome. Lunch provided. **PS 209**

## **11:30-12:00**

**Wrap Up** - where to next year? Safe travels back home, so that we can meet again next year and do it all over again! ☺ **PS 209**

The Tate museum will be open from 10:00-4:00 pm on Saturday for those who would like to return and spend more time or if you went to the mine and didn't get to see it at all.
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## **12:00-2:00**

BC workshop work-session – all are invited – lunch provided. **PS 209.**

# Wyoming Mathematics, Statistics, and Physical Sciences Articulation Conference

Sponsorships provided by:  
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Wyoming School-University Partnership

And YOU!

Special thanks to the office of Wyoming partnership and Web Mistress: Tara  
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February 5-7<sup>th</sup>, 2009  
Casper College,  
Casper, WY

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