Workshop Agenda – Saturday, January 7th, 2006

Goals and Strategy: *Engage, Explore, Explain, Extend, and Evaluate*
- To improve participants’ understanding of the current scientific model for the structure and evolution of the Universe, and the evidence that supports the model.
- To use the context of space science exploration on the structure and evolution of the Universe to help participants reflect on the nature of models, evidence and explanation in science.
- To provide a pathway of resources, strategies, and support for student learning of these important concepts.
- To gather feedback on how to do better in achieving goals 1-3!

8:30 AM – 9:00 AM - Check-in and coffee/snacks

9:00 AM – 10:00 AM – Welcome and Introductory (Mary & Erika)

9:00 AM – Welcome & Introduction, Models Survey & Universe Brainstorm
9:10 AM – *Modeling the Universe* Introductory Activity – model building
9:30 AM – Presentation of reflection on teacher models
9:50 AM – Activity debrief: models, and introduction to student ideas

10:00 AM – 1:00 PM – Inquiry Stations and Reflection – *How Big Is The Universe?* (Bryan & Phil), *How Old Is The Universe?* (Erika & Nahide), *What’s In The Universe* (Sarah & Jim). (Mary & Kathy: Time Keepers)

10:00 AM – Inquiry Station I
10:45 AM – Reflection on Inquiry Station I/Model Revision

10:55 AM – **Break** (bathroom)

11:10 AM – Inquiry Station II
11:55 AM – Reflection on Inquiry Station II/Model Revision

12:05 AM – Inquiry Station III
12:50 AM – Reflection on Inquiry Station III/Model Revision

1:00 PM – **Lunch & Discussion**: student models, ideas, and misconceptions

2:00 PM – Presentation: *Cosmological Models* (Phil)

2:30 PM – Question and Answer Session (All)

2:40 PM – Discussion: *Modeling the Universe* in the Classroom (All)