BIO-MATH Summer Field Tester Institute 2007

Tuesday, July 17 – Pre-Program

6:00 – 7:30	Staff meeting/dinner
8:00 – 9:30	Registration in Hospitality Room with light snacks

Wednesday, July 18 – Day 1

7:00 – 8:30	Breakfast and shuttle from hotel to DIMACS
8:40 – 9:00	*Morning Briefing:* Agenda for the day
9:00 – 10:15	*Introduction:* Inspirational Introduction to Bio-Math and Plan for week – Inherent value **Fred Roberts, Midge Cozzens, Lead Teachers: Chuck Biehl, Bro. Pat Carney, Tom Fleetwood, Kathy Gabric**
10:15 – 10:30	Break
10:30 – 12:00	*Overview:* Overview of the content of the three modules – similarities and uniqueness of each. Introduction of the topics common to all. **Rob Hochberg**
12:00 – 1:15	Lunch together with talk about the NSF grant and evaluation to get teacher input; Introduction of evaluator Len Albright
1:15 – 4:00	*Group assignments are made:* Each module group meets as a group with their resource person and the lead teachers assigned to their groups: • **Chuck Biehl and Rob Hochberg – *Spider Silk*** • **Kathy Gabric, Bro. Pat Carney and Laurie Heyer - *Biomatrices*** • **Tom Fleetwood and Nina Fefferman – *Genetic Inversions*** Each module group reads (skims) their module and talks with each other and the resource people about what content they will need to be able to teach the module.
3:00 – 4:30	Break (as needed): Each group works on a list of topics to give to Rob for the next day.
4:30 – 5:00	*Whole Group Discussion:* Whole group comes together to discuss feedback from small groups and allay any insecurities as a result of reading modules, and discusses plans for the next day.
5:00 – 6:00	Staff meeting and shuttle to hotel
6:30 – 8:00	Dinner with inspirational speaker to reinforce morning discussion of bio-math **Nina Fefferman**

Thursday, July 19 – Day 2

7:00 – 8:30	**Breakfast and shuttle from hotel to DIMACS**
8:40 – 9:00	*Morning Briefing*
9:00 – 10:25	*Computational biology background:* **Background based on feedback from day before**
10:25 – 10:45	**Break**
10:45 – 12:00	*Computational biology background:* **Continued**
12:00 – 1:15	**Lunch with discussion of whether participants feel they are getting what they need from the comp bio materials – pace, etc. Rutgers summer students talk about their math-bio experiences:** **Barton Willage, Beloit College** **Ashley Crump, Howard University**
1:15 – 2:45	*Biology Workbench:* **Lab session**
2:45 – 3:00	**Break**
3:00 – 4:45	*Computational biology background:* **Continued**
4:45 – 5:00	*Light assignment of homework problems:* **Material relative to the modules but not specific to each one – mixed groups.**
5:00 – 6:00	**Staff meeting and shuttle to hotel**
6:30 – 7:30	**Dinner**
7:30 – 9:00	*Homework:* **Work on homework problems in groups – mixed groups**

Friday, July 20 – DAY 3

7:00 – 8:30	**Breakfast and shuttle from hotel to DIMACS**
8:40 – 9:00	*Morning Briefing*
9:00 – 10:30	*Homework:* **Review**
10:30 – 11:00	**Break**
11:00 – 12:00	*Discussion:* **Module implementation**
12:00 – 1:30	**Lunch with speakers about implementation of modules – two who have pilot tested, math/bio:** **Kathy – Biomatrices and Chuck – Genetic Inversions**
1:30 – 4:45	*Content for each module group:* **3 groups using resource persons and lead teachers – break as needed.**
4:45 – 5:00	*Homework:* **Assignment of homework problems – from the modules – by module group**
5:00 – 6:00	**Staff meeting and shuttle to hotel**
6:30 – 7:30	**Dinner**
7:30 – 9:00	*Homework:* **Work on homework problems in module groups**

Saturday, July 21 – Day 4

7:00 – 8:30	**Breakfast and shuttle from hotel to DIMACS**
8:40 – 9:00	*Morning Briefing*
9:00 – 10:30	*Homework:* **Review in module groups**
10:30 – 11:00	**Break**
11:00 – 12:00	*General Discussion:* **Implementation and Evaluation**
12:00 – 1:00	**Lunch with continuation of pre-lunch discussion**
1:30 – 3:00	*Module Content:* **Revisit content for each module group and identify lingering needs in the content area.**
3:00 – 3:30	**Break**
3:30 – 5:00	*Discussion:* **Implementation of each module by group**
5:00 – 5:30	**Brief staff meeting – shuttle to hotel or restaurant**
6:00 – 7:30	**Dinner at Shogun 27 Japanese Restaurant**

Sunday, July 22 – Day 5

Side trips to New York City or Liberty Science Center (Bro. Pat) or the Jersey Shore (Nikki Farhad-Garousi)

Monday, July 23 – Day 6

7:00 – 8:30	**Breakfast and shuttle from hotel to DIMACS**
8:40 – 9:00	*Morning Briefing*
9:00 – 10:30	*Module Content:* **Revisit content identified Saturday as still missing and necessary by module – parallel sessions can go on, extending after break**
10:30 – 11:00	**Break**
11:00 – 12:00	*Module Content:* **Content reinforcement continued**
12:00 – 1:30	**Lunch with speakers about implementation of modules – another two who have pilot tested, math/bio:** **Val DeBellis – Spider Silk and Dave Masters/Richard Poole (Pleasantville High School, NJ) – Genetic Inversions**
1:30 – 3:00	*Discussion:* **Module implementation and its challenges**
3:00 – 3:30	**Break**
3:30 – 5:00	*Presentations:* **Preparation of material for evening - 3 groups**
5:00 – 6:00	**Staff meeting and shuttle to hotel**
6:30 – 7:30	**Dinner**
7:30 – 9:00	*Presentations:* **15 minute presentations about each of the three modules and what they see are the challenges** *Guest speaker:* **Asamoah Nkwanta: Discussion of how he got into bio-math; what he sees as ways of getting students interested; relevance of diversity issues**

Tuesday, July 24 – Day 7

7:00 – 8:30	**Breakfast and shuttle from hotel to DIMACS**
8:40 – 9:00	***Morning Briefing***
9:00 – 10:30	*Discussion:* **Evaluator discusses the format and what is needed from module implementation: Reports and Interviews**
10:30 – 11:00	**Break**
11:00 – 12:00	*Discussion:* **Module implementation and how to get what evaluators need.** **Guest Speaker Value in what Field Testers will be doing** **Spud Bradley, NSF**
12:00 – 1:00	**Lunch Discussion: NSF interests in the program**
1:00 – 3:00	*Final discussion:* **Expectations, next steps, reflection on the week's experiences, networking** **Shuttles to airports or back to hotel**