**Notes – Group 4 Networking Session**
**October 27, 2005**

Internal Assessment Meeting

1. Best labs were shared

   (A) Planning – Mark Hadley moderated

   - Pendulum is a good planning lab
   - ½ life of carbonated beverage (count bubbles)
     Close to radioactive decay (non alcoholic beer)
     cheap root beer works as well
   - can be lever/cantilever (meter stick clamped on table)
     "Investigate properties of cantilever"

   (B) "Remember to provide clear, focused hypothesis and reasons why they predict"

   - Investigate falling dominos

   (C) every student should collect their own data

2. Uncertainties – how to estimate uncertainties

   - Issues rose about how uncertainties are estimated (1/2 limit of reading vs. 20 percent of smallest guess, etc.)
   - Range of mean vs. maximum deviation of the mean, etc.

3. Question about graphing – vector vs. excel?

   IB tends to frown on logger pro (a type of graphing software) generated graphing

   Excel generated graphs tend to be more readily accepted.

   (This may depend on the moderator.)

   HL labs – min and max slope with error bars on all labs.

4. Discussion of exams and records of moderators, specifically paper 2 and 3 – seem only a few have dual scoring.

5. Computers in lab use – turned in labs should be non-computer, hand graphed labs

    - suggested – pendulum lab, dominos lab

6. Number of labs to turn in – worst case scenario is 2 labs plus PSOW with list of lines and evidence of Group 4 project.

7. Discussed math expectations for IB physics classes. Do students need logs and vector math or is Algebra I enough? There were mixed opinions on this.

8. Internationalism – Env. Impact of Group 4

    - Constrained project to impact on a lake in region.

    - Crime investigation for Group 4.