"If I have seen further than others, it is by standing on the shoulders of giants"

-- Newton

U of T Pre-Medical Society

Come out to our first meeting of the year!

Sept. 20, 2006

MSB 3154

Member registration begins at 4 pm.

Information/Q&A session with a U of T Medical School admissions rep. from **4:30-6 pm**.

Year-rep. elections from **6-7 pm**. 1st year students are welcome to run. Candidates should be prepared to make a brief speech (< 2 min.)

Free pizza/pop will be available!

The Main Physics Server:

- Catastrophic failure mid-afternoon Tuesday
- Back up mid-morning Friday
 Some parts are still missing
- Some of my email has been permanently lost!

Standalone *MasteringPhysics*:

• The textbook store has run out. More are on the way

• The due date for the 1st Pre-Class Quiz has been moved back to **10AM Wednesday September 20**

Now Available on MasteringPhysics

- Pre-Class Quiz Q1 Chapts 02-04

 Due by 10AM Wednesday September 20
- Problem Set Q1 Chapts 02-04
 Due by 11:59PM Friday September 22
- Pre-Class Quiz Q1 Chapts 05-06
 Due by 10AM Monday September 25

Tutorials Begin This Week

- You can find out where your tutorial meets from Student Online Record Management (STORM)
- <u>http://www.storm.utoronto.ca/PHY138Y1Y/student/</u>
 - Linked to from the Mechanics page: <u>http://www.upscale.utoronto.ca/PHY138Y/Mechanics/</u>
 - Linked to from the PHY138 page:
 - http://www.physics.utoronto.ca/~phy138yw/front_page.htm

About STORM

- <u>http://www.storm.utoronto.ca/PHY138Y1Y/student/</u>
 - Note: is case sensitive!
- Requires a login and password:
- Login: your student number
- Password: your surname
 - Also case sensitive!

Your First Tutorial

- Take your Student Workbook
- You will take a brief survey:
 - If you answer all questions on the survey and register your clicker, you will receive a bonus in PHY138 equal to the value of one Pre-Class Quiz
 - Although no marks are associated with clicker use, we will be paying attention to who is answering questions in class

To Register Your Clicker

- Go to http://www.iclicker.com/
- Choose Register
- For Institution choose: University of Toronto – St. George
- For Student ID enter your student number
- For *Clicker ID* enter the 6 character code on the back of your clicker
- Must be completed by October 1
 Institution: Select your School

Institution: Select your School	*
Student ID:	
Clicker ID:	

What is examinable

- All sections of the textbook that are listed in the Syllabus
- Supplemental Topics that are listed in the Syllabus
- In-class questions, perhaps slightly modified.
- Problems from MasteringPhysics, perhaps slightly modified

Last Time 1/2

- Classical Physics: the world is a mechanistic clockwork, describable by mathematical laws.
- Physics describes the world using the language of mathematics and everyday words with precise definitions.
- Operational Definitions: operations that define words and concepts.

Last Time 2/2

- Motion Diagrams
- Models
- Position and Time
 - Coordinate systems
- Choosing time t = 0
- Position vector
- Displacement Vector

Today

- Finish Chapter 1
- Chapter 2 Kinematics: The Mathematics of Motion
- Perhaps begin Chapter 3 Vectors and Coordinate Systems
- We are still setting up the *language* we will need. Physics begins on Wednesday









Problem Solving (cf. pg. 24)

- Model
- Visualise
 - Pictorial, physical & graphical
- Guess the answer
- Solve
 - If numeric, put in numbers last
- Assess

Example

- Toronto Barrie: 90 km
- Mathematician: north from Toronto to Barrie at 100 km/hr
- Physicist: north from Toronto to Barrie at 125
 km/hr
- Leave at same time
- How long is the physicist in Barrie when the mathematician shows up?