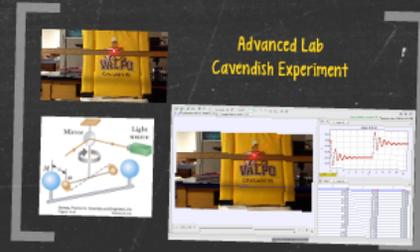
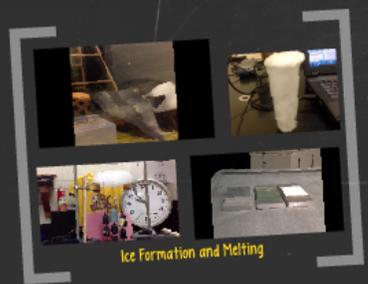
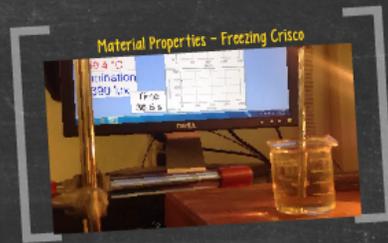
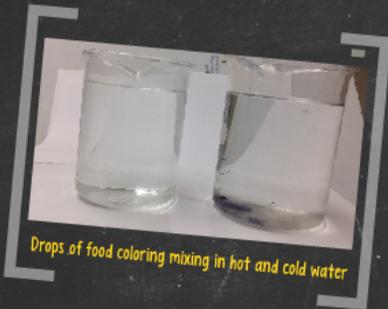




Slow-Speed Video - Paul Nord

Using Stop-Action Video on the iPad to help understand phenomena which take place too slowly to tolerably observe.



NOT High-Speed Video



Slow-Speed Video

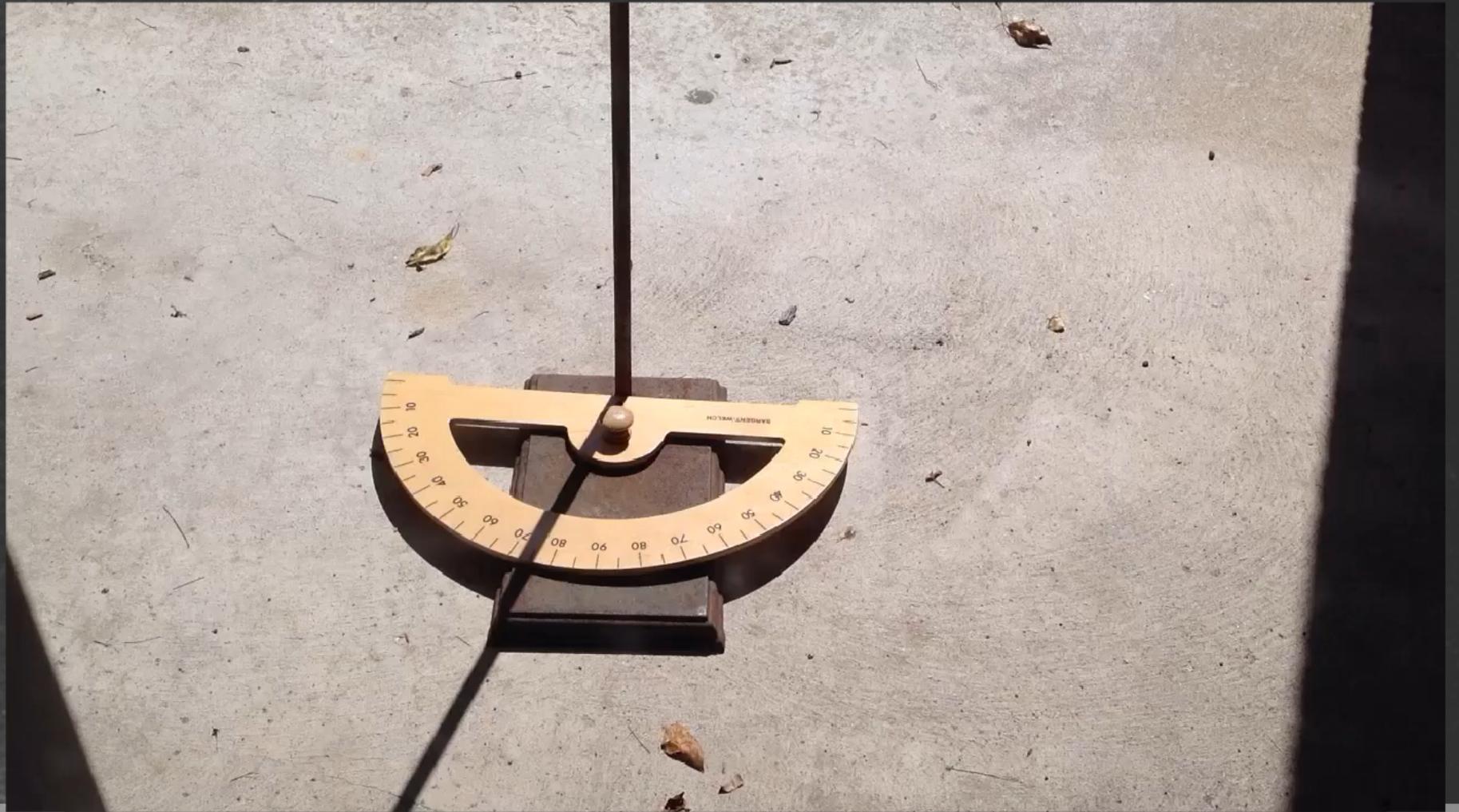
- **Stop Action Video**
- **Taken with iPad, iPod, or iPhone**
- **Slow Frame rate**
 - **every few seconds**
 - **or every few minutes**
 - **sometimes hours of data collection**

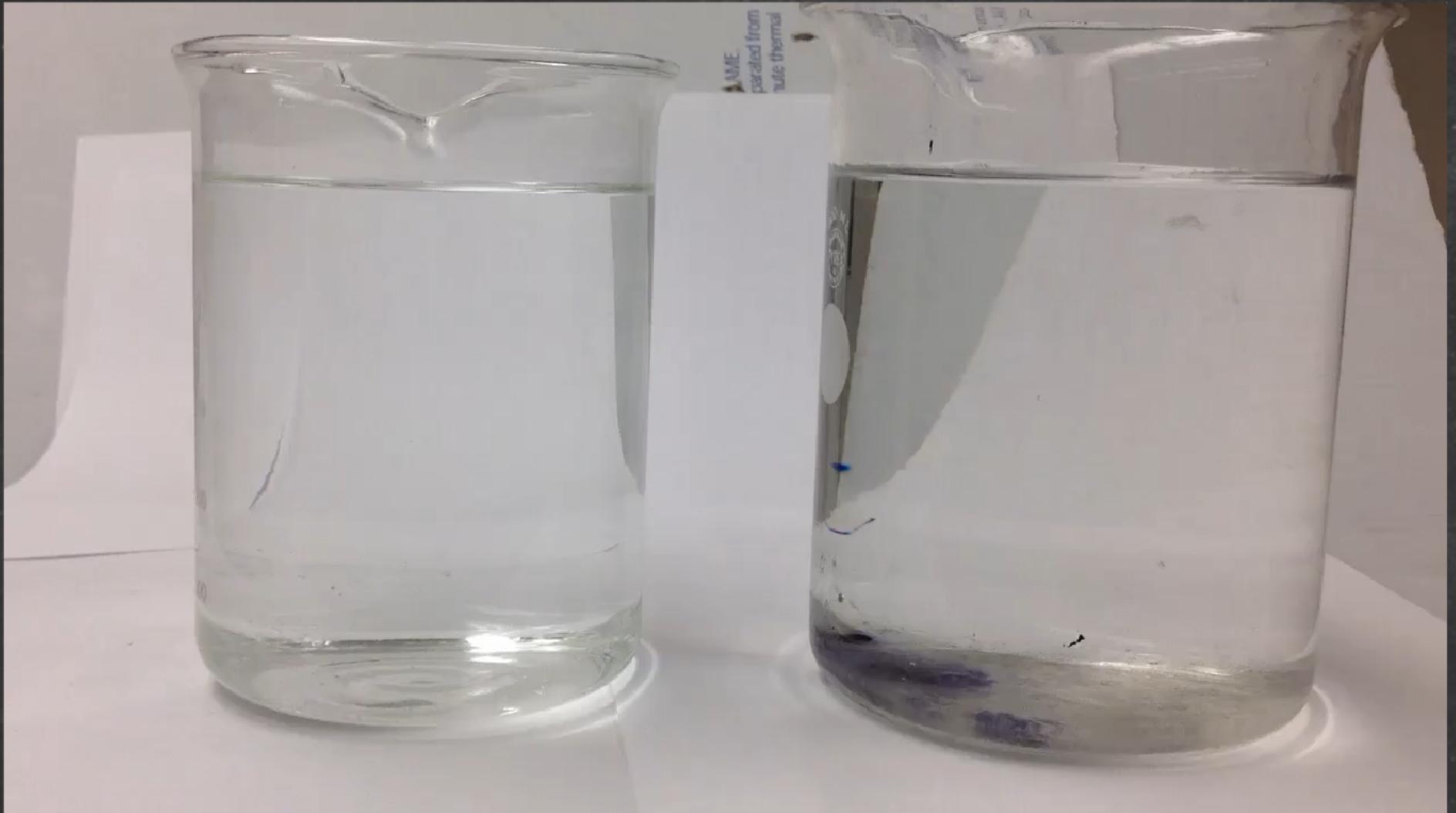


Miscellaneous



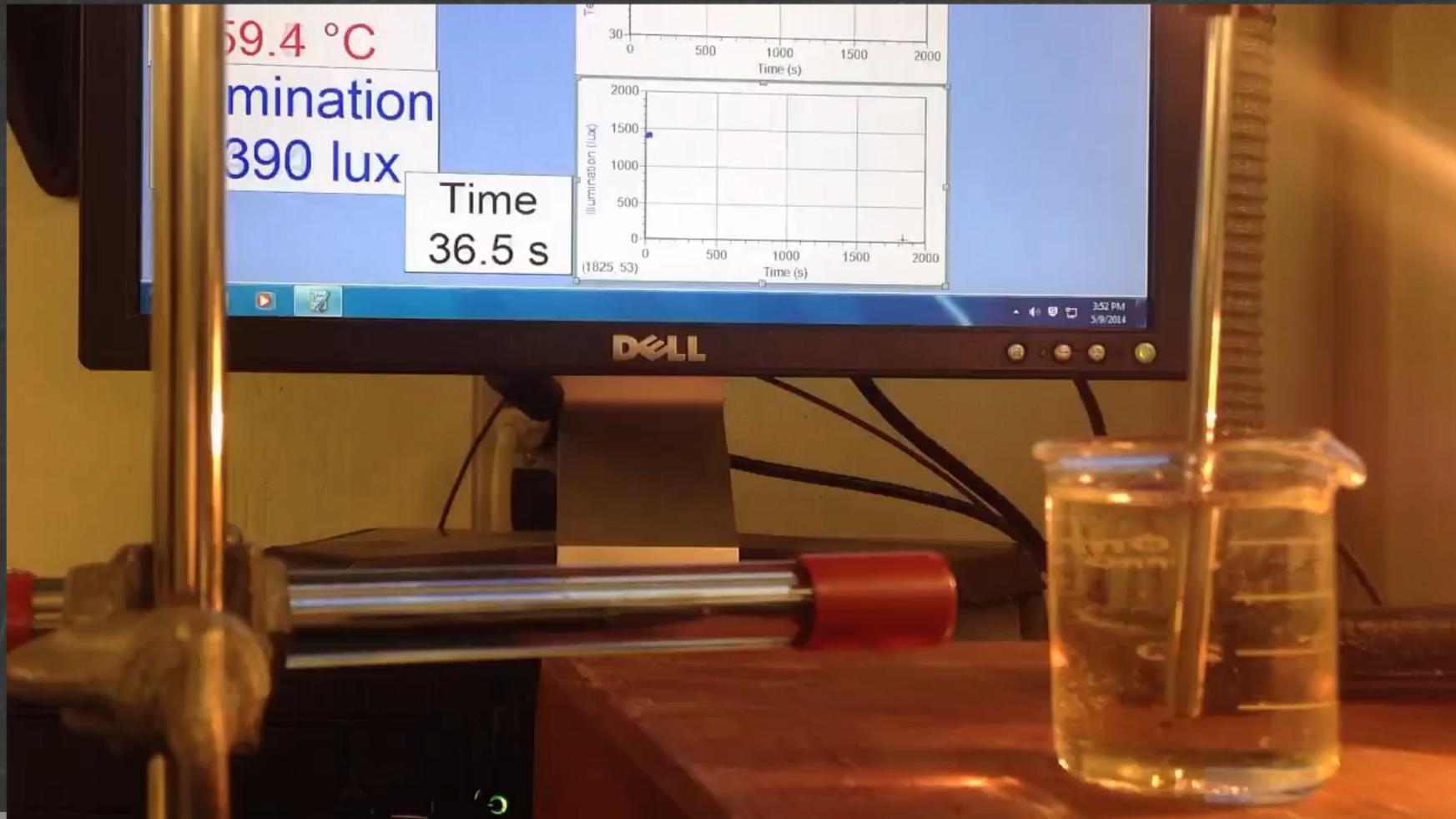
Astronomy

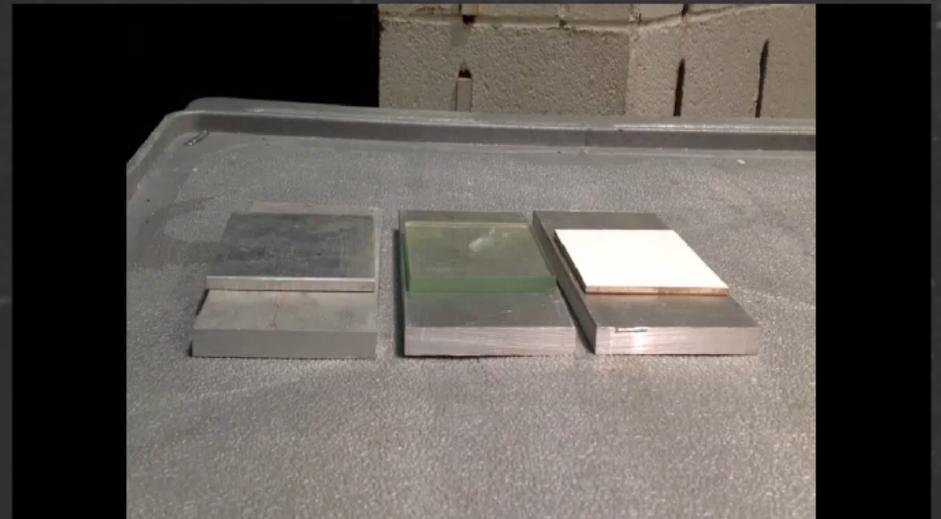




Drops of food coloring mixing in hot and cold water

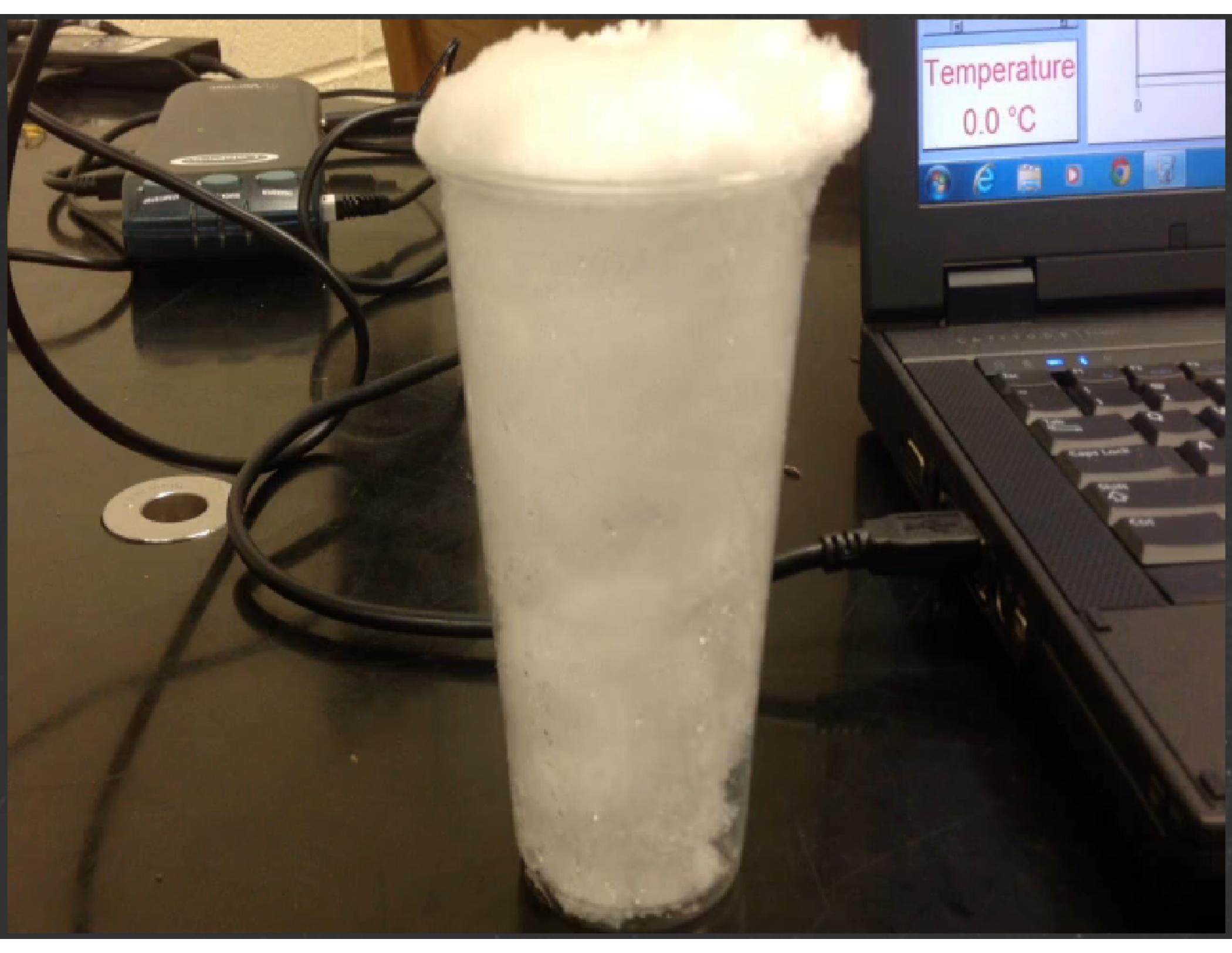
Material Properties - Freezing Crisco





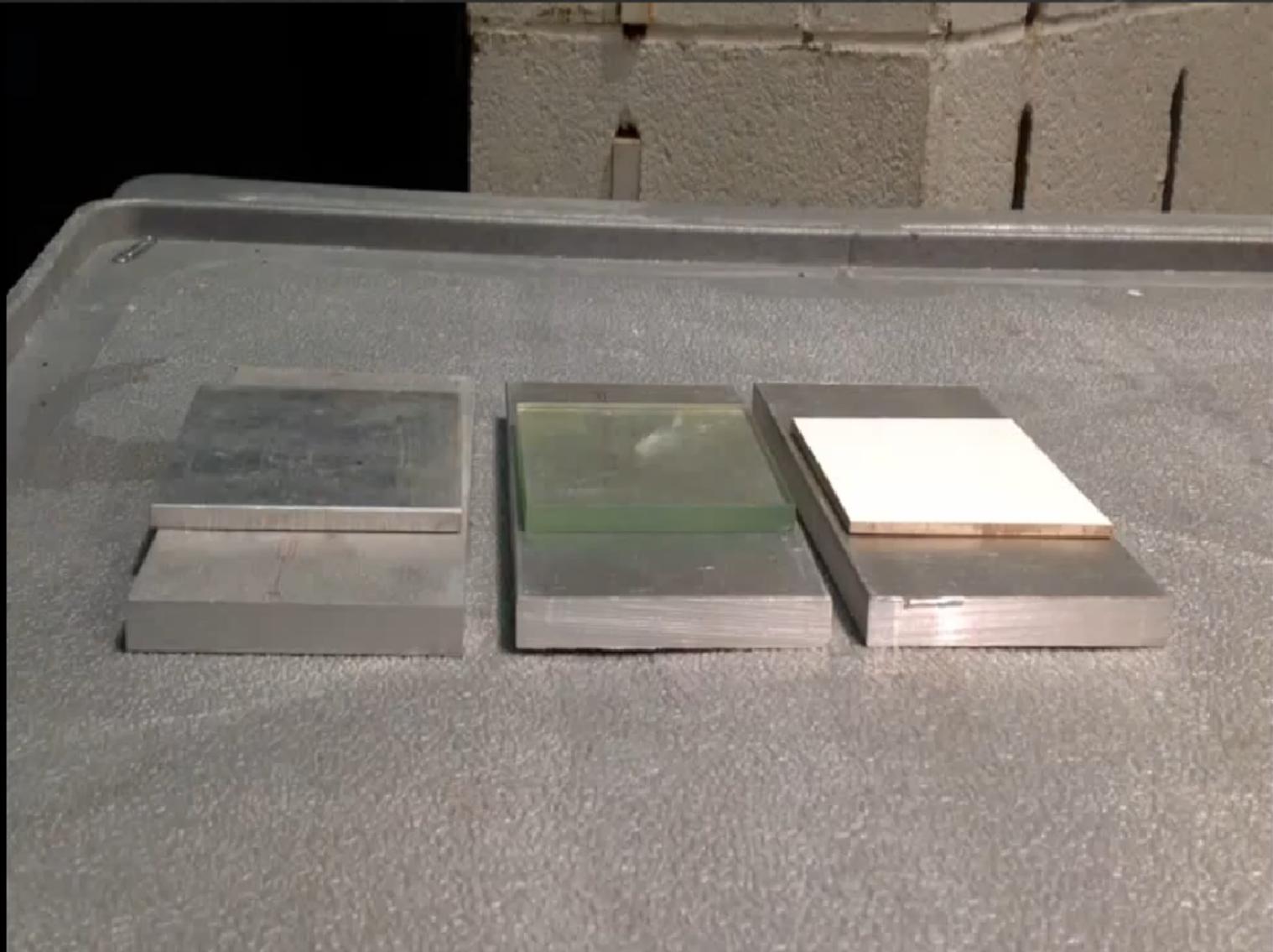
Ice Formation and Melting





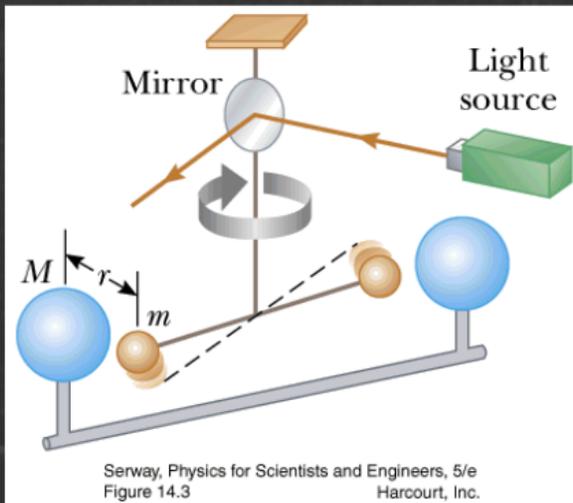


Ice Formation



and Melting

Advanced Lab Cavendish Experiment



Calibration stick A length 5.300E-1 angle from x-axis -0.4°

Now available: version 4.85 memory usage: 52/64 of 101.1M

Plot mass A

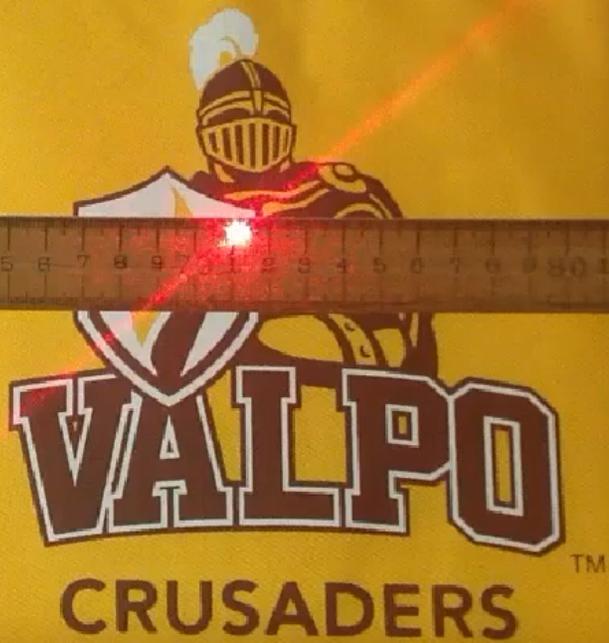
mass A (t, x)

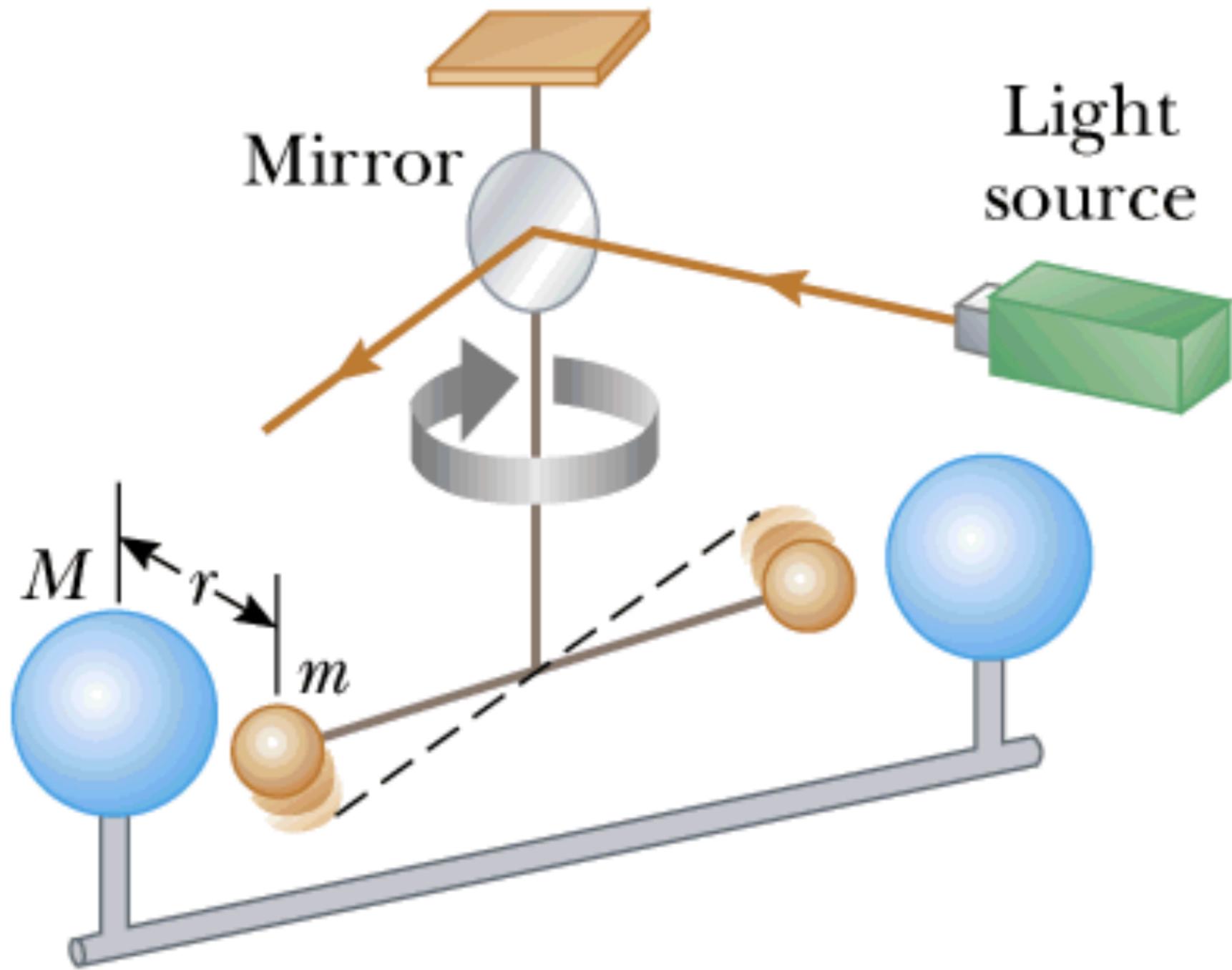
t=0.00 x=0.04

t	x	v
0	0.047	0.064
0.067	-0.027	0.064
0.133	-0.062	0.064
0.2	-0.079	0.064
0.267	-0.131	0.064
0.333	-0.159	0.064
0.4	0.158	0.064
0.467	0.151	0.064
0.533	0.091	0.064
0.6	-0.051	0.064
0.667	-0.028	0.064
0.733	-0.024	0.064
0.8	-0.039	0.064
0.867	-0.065	0.064
0.933	0.093	0.063
1	0.114	0.065
1.067	0.179	0.065
1.133	-0.115	0.065

Video May 12, 12:39:05 PM.mcv

Dr. Andrew Richter
HSC 142, #6834
Andrew.Richter@valpo.edu
http://www.valpo.edu/faculty/andrew_richter/





Serway, Physics for Scientists and Engineers, 5/e
Figure 14.3
Harcourt, Inc.

calibration stick A length $5.300E-1$ angle from x-axis -0.4°

5.300E-1

000 100

Video May 12, 12 39 09 PM.mov

Now available: version 4.85 memory in use: 32MB of 1011MB

Plot mass A

mass A (t, x)

t=0E0 x=0.04

Table mass A

t	x	y
0	0.041	0.064
0.067	0.027	0.064
0.133	-0.02	0.064
0.2	-0.079	0.064
0.267	-0.131	0.064
0.333	-0.159	0.064
0.4	-0.158	0.064
0.467	-0.131	0.064
0.533	-0.091	0.064
0.6	-0.053	0.064
0.667	-0.028	0.064
0.733	-0.024	0.064
0.8	-0.039	0.064
0.867	-0.065	0.064
0.933	-0.093	0.063
1	-0.114	0.063
1.067	-0.121	0.063
1.133	-0.115	0.063



Adjusting a Foucault Pendulum



Mud Cracking Stephen Morris, Mary Miedema



Valparaiso
University



A NiSource Company

iOS Apps



iMotion Pro



GorillacamPro