

OUR NEXT MEETING...

...is at

Niles West High School

Thursday December 8

6:30 – 8:30

Martha Lietz (marlie@d219.org, 847.626.2772)

Future Meetings

Date	Location	Contact
December 8th (Th)	Niles West HS	Martha Lietz
January (W)	Elmhurst College*	Brian Wilhite
February	Lane Tech High School	Karlene Joseph
March	Loyola University	Gordon Ramsey
April 12th (W)	Lake Forest College	Mike Kash
May 8th (M)	Northwestern University	Art Schmidt

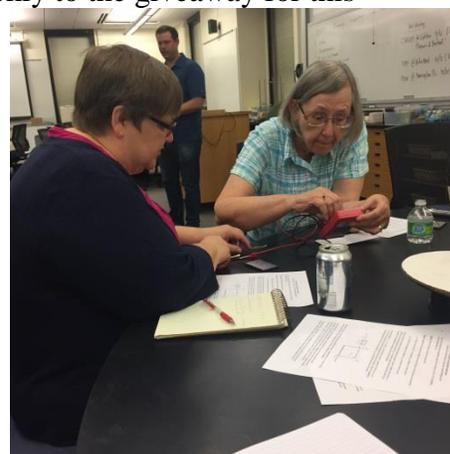
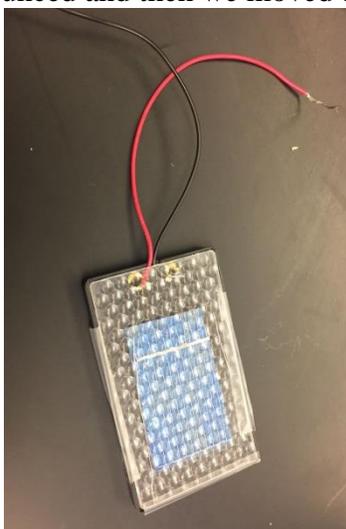
*Tri-Phys Meeting

At our last meeting at DePaul University...

We were greeted by our hosts **Eric Landahl** and **Susan Fischer** after enjoying some enjoyable food and beverages. Future meetings were announced and then we moved quickly to the giveaway for this

meeting, an encapsulated solar panel, accompanied by an information and activity sheet that included an assignment idea. The cells came from

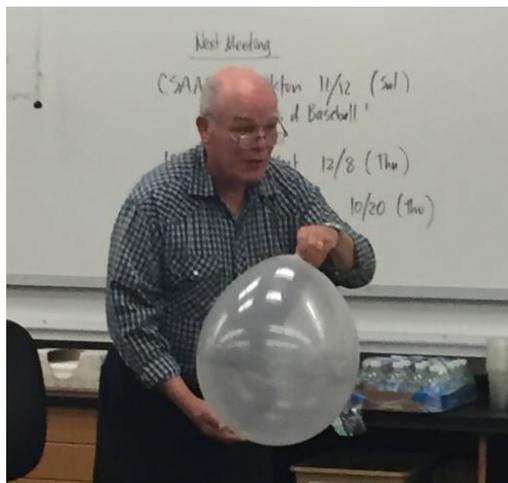
www.ScientificsOnline.com and cost \$3.95 each. We were given multimeters to use in making a number of measurements on the cells.



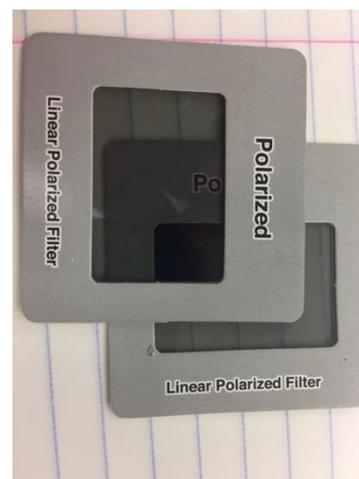
Debby Lojkutz (Joliet West High School) presented New Teacher Bags to DePaul graduate students Ellie Martin-Eberhardt and Vanshree Bhalotia.

Martha Lietz (Niles West High School) showed us an application of DESMOS, a free online graphing calculator. Some of us had not seen this before. It is versatile and includes good instructions on how to use it. Martha set up a multipart kinematics problem from the text by Sears, Zemansky and Young, with a printout of the problem and one of the graphical solutions. She showed us how the graphs of functions change as one or more of the constants vary over time using sliders. Go to <https://www.desmos.com/>.

Bill Blunk (retired) brought something on behalf of Earl Zwicker, whom he visited recently, on centriPETAL force. Bill had a bag of balloons and passed some around. These balloons were nearly clear, so what was happening inside could be viewed. We were also given some nickels. When the balloons were inflated to about a 16" diameter, we were to rotate them and observed what happened. It took some doing, but most were able to rotate the balloons in such a way that the nickels inside rotated. This looked like simple harmonic motion and we realized that balloon surface was exerting centripetal force on the rotating nickels. We also saw that some moisture from our breath condensed on the inside surface of the balloon.



Susan Fischer (DePaul) passed out samples of slide-mounted polarizing filters from Arbor Scientific (\$35 for a pack of fifty). She gave us the product description from Arbor and part of an activity used in an algebra-based intro physics class. We each received three filters. We saw the near extinction of transmitted light through two filters with crossed polarizing axes. Then we looked at the effect of inserting a third filter between the first two and rotating it and saw variation in transmission depending on the angle of the polarizing axis of the middle filter.



Ann Brandon (retired) shined a laser on a CD Rom and a DVD. We saw two different diffraction patterns. The groove spacing on a DVD is smaller. As expected, we saw that the diffraction maxima for the DVD were farther apart than for the CD rom.

Kevin McCarron (Oak Park-River Forest High School) illuminated a CD with a super-bright LED flashlight and we saw some interesting patterns.

Our evening ended on this bright note. We left with our giveaways and thanks to our DePaul hosts. Plan to be at Niles West on December 8 for more physics fun and information. Bring a friend and a phenomenon.

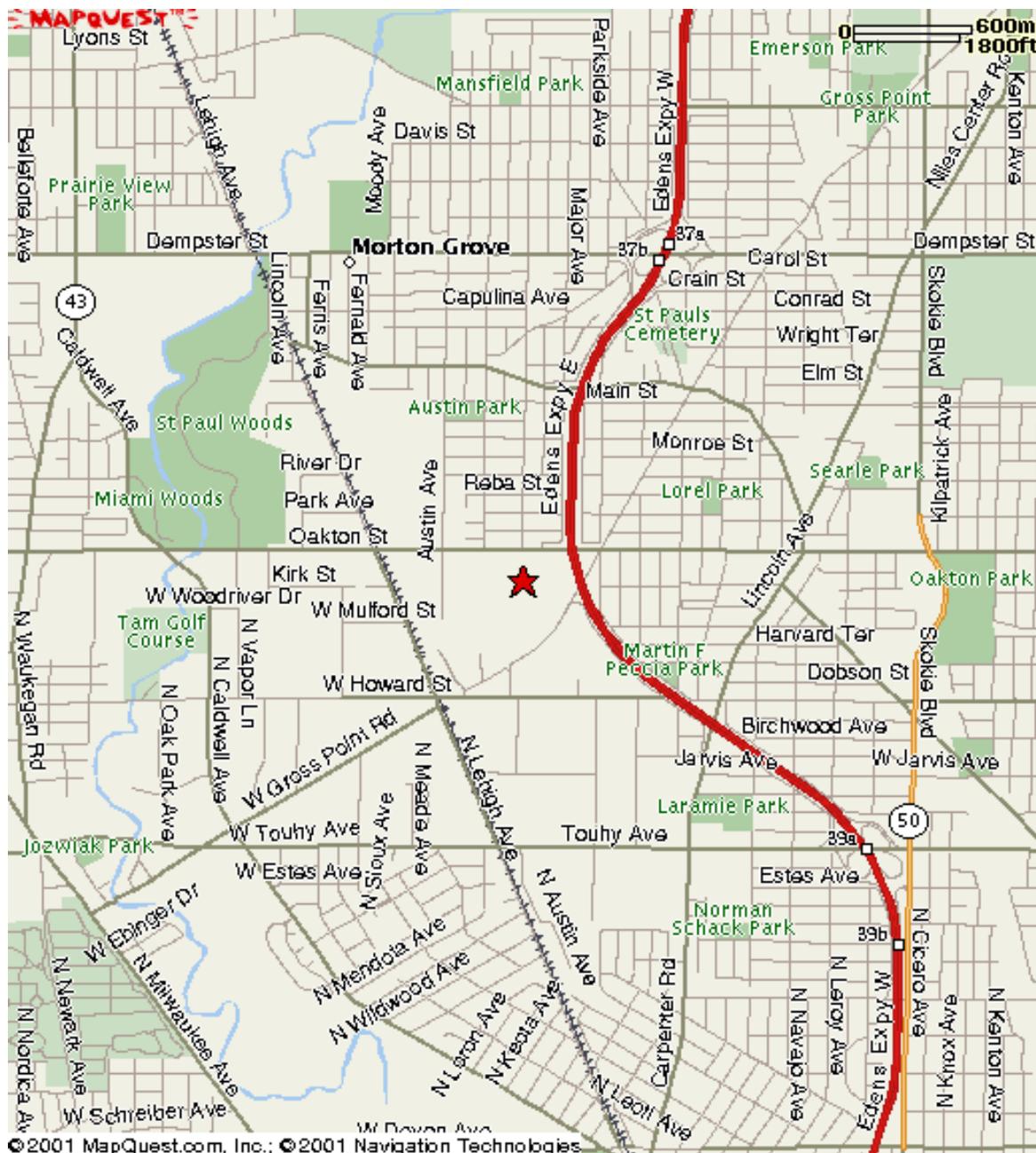
ISPP on the Web at <http://www.ispp.info/>

Reported by John Milton. Photos courtesy of Martha Lietz.

Saturday, November 12... Fall meeting of AAPT Chicago Section, Oakton Community College.
<https://sites.google.com/site/chicagoaapt/>

Map to Niles West High School

5701 Oakton St. Skokie, IL 60077



Directions:

From North or South: Take I-94 to Dempster Street, exit going east. Go to the second light stop light (Gross Point Rd.) and turn right. Take Gross Point Road south to Oakton, and turn right onto Oakton. The entrance to the school is the first left after the bridge over the highway. **Due to school security, you must enter through the auditorium entrance in front of the building. Signs will guide you to the appropriate room(s).**

From West: Take Touhy east from I-294 to Harlem Ave. Turn left. Take Harlem north to Oakton. Turn right. Take Oakton east to the high school, and follow the directions above.