

Hi, everyone!

As usual, we have a couple big things this month, and then a whole bunch of smaller things.

The first, and most crucial, is that the April 15th registration deadline for SEPS' Spring Meeting at Drexel University, April 26th & 27th, is quickly approaching. The topic will be "Communicating Physics", and speakers will include Dr. Sarah Demers of Yale University, Alice McNaull of AIP, and many more. More information is available below or in the attached PDF schedule.

The registration form is online at:

<https://docs.google.com/forms/d/1C9uG7k86miRkHfoiDZP5GLrDIJRUYpR9cIGx-qRqLmY/viewform>. Paper checks should be mailed to Art Zadrozny, at 1229 Gail Road, West Chester PA 19380.

One highlight of this spring's meeting is our Saturday Night "Iron Physicist Competition". Contestants will be challenged to create a demo to illustrate a physics concept using a special ingredient: a Marshmallow Peep. Ken Fink will serve as the moderator for this exciting public event, which we are organizing in collaboration with the Philadelphia Science Festival. The winners will receive some pretty cool prizes. We encourage you to attend, encourage your students to attend, and if you're interested in a fun and pedagogical challenge, sign up to be a contestant! It just takes a few second to check the box indicating your interest on the registration form, and then we'll contact you with more details about the competition in the next few weeks.

Here's a summary of the remaining contents of this newsletter:

1. Quick SEPS survey to help us serve you better (deadline 4/26)
2. Register now for SEPS' Spring Meeting at Drexel (registration deadline 4/15 for conference 4/26-4/27)
3. Save the date for EdCamp Philly (5/18)
4. National Academies release new report on Undergraduate Physics Education
5. Summer Opportunities at Penn LRSM
6. Job opening for Physics teacher at Springside Chestnut Hill (posted 2/20)
7. DCCC seeks tenure-track Assistant Professor of Earth/Space science (posted 3/1, deadline 4/12)
8. Register now for the Philadelphia Science Festival Events (4/18-4/28)
9. Vernier offers free evening data collection workshop (4/30)
10. Robert Malkovsky (Penncrest HS) Memorial Scholarship fund
11. Kaczmarczik lecture and high school open house, Drexel, 4/15
12. Teachers' Stargazing Night at Widener (4/16)
13. Widener University's Science Teaching Center offers STEM Teacher Exchange
14. AMTA offers Modeling Workshops this summer in PA, NJ and around the country (deadline 6/1 for South Jersey Institute)
15. Friends Select seeks Upper School Chemistry Teacher (posted 3/8)

16. Penn Monthly Outreach Lectures for Science Teachers at LRSM (5/16, 6/13)
17. Penn LRSM Science Cafes in Wilmington and Philadelphia (4/10, 5/15)
18. Summer 2013 Teacher Programs at the NASTAR Center (July 2013)
19. SEPS AAPT Online

Please continue to let me know about any exciting events, professional development opportunities, or resources you come across that you'd like to share with the rest of the Southeastern PA Section! I'd especially be interested in getting more resources that will be useful to college faculty, since most of the mailing lists I am personally on pertain to my own grade level, and I'd like this list to be useful for everybody on it.

And as always, please let me know by email (jwaldman -at- archmereacademy.com) if you would like me to change your subscription, or if you have friends or colleagues who would like to be added.

Best,

Jillian Waldman
Secretary, SEPS AAPT
AP & Honors Physics Teacher
Archmere Academy
Claymont, DE 19703

1. QUICK SEPS SURVEY TO HELP US SERVE YOU BETTER

SEPS is taking a quick survey of the membership to determine how we can serve you better. It's short and mostly multiple-choice. **We'd love your feedback even if you aren't planning on coming to the spring meeting**, or have never attended a SEPS event.

Please take a moment to fill it out here:

<https://docs.google.com/spreadsheet/viewform?formkey=dEdJVWRpLWhBaEd5T0dyZVEzSG1HWkE6MQ>

We will be discussing responses at the Spring Meeting, so be sure to respond by then!

2. REGISTER NOW FOR SEPS' SPRING MEETING AT DREXEL

Registration is now open for SEPS's own Spring 2013 Meeting, which will take place at Drexel University on Friday, April 26th and Saturday, April 27th. It will be run jointly by SEPS AAPT and Zone 3 of the Society of Physics Students. The full (draft) schedule of the meeting is attached as a PDF to this email. The theme is "Communicating Physics." We have an exciting lineup of speakers and activities for this spring's meeting, including:

- Dr. Sarah Demers, Assistant Professor of Physics at Yale University, as the Friday evening plenary speaker (tentative topic: particle physics at CERN and the Higgs boson; see her blog here: http://www.uslhc.us/The_US_and_the_LHC/US_LHC_Blogs/Sarah_Demers)
- Ken Fink, President and Founder of Wondergy, as the MC for a special Saturday evening event in collaboration with the Philadelphia Science Festival
- Saturday workshops by Dr. Doug Valette, Unionville High School, on "Modeling

Instruction in Physics"; Aline McNaull, American Institute of Physics Policy Associate, on "Communicating Physics to Policymakers"; Dr. Dave Goldberg, Drexel Professor of Physics, on "Popularizing Science"; and Dr. Michelle Dolinsky, Drexel Professor of Physics, on "Diversity in Physics."

Contributed talks, demonstrations, posters, and more!

The registration form is online at:

<https://docs.google.com/forms/d/1C9uG7k86miRkHfoiDZP5GLrDIJRUYpR9cIGx-qRqLmY/viewform>

Undergraduate students should instead register through SPS at:

<http://www.physics.drexel.edu/events/AAPT/>

Registration for the entire two-day conference for AAPT members is \$85 in advance, and \$100 on site, with a reduced rate of \$50 for graduate students, and lower rates (see registration form or attached PDF) for smaller portions of the meeting. AAPT membership is \$10 if you are not currently a member. The registration deadline is April 15. Checks should be made payable to SEPS AAPT and sent to our treasurer, Art Zadrozny, at 1229 Gail Road, West Chester PA 19380.

We hope to see you there!

3. SAVE THE DATE FOR EDCAMP PHILLY

Registration is now open for EdCamp Philly, a free unconference devoted to issues and ideas in K-12 education. It will take place at the University of Pennsylvania on May 18, 2013. <http://www.edcampphilly.org>

4. NATIONAL ACADEMIES RELEASE NEW REPORT ON UNDERGRADUATE PHYSICS EDUCATION

The National Academies just released a new report on undergraduate physics education: http://www.nap.edu/catalog.php?record_id=18312

5. SUMMER OPPORTUNITIES AT PENN LRSM

The University of Pennsylvania's Lab for Research on the Structure of Matter has the following programs available for teachers and students:

1) Research Experience for Teachers, RET This is a six week program of research for five teachers from the Delaware Valley. For details go to our website www.lrsm.upenn.edu/outreach under RET for an on-line application form. Please pass this information on to any teacher you think may be interested.

2) Pennsylvania Summer Science Initiative, PSSI This is a free, four week program for high school junior or good sophomores. Go to our website www.lrsm.upenn.edu/outreach and look under PSSI for information and the on-line application. Encourage your students to apply.

3) Teachers Workshops on (inexpensive) materials-related experiments for

schools, These one-day workshops will be given in August (dates to be determined) on thermal properties of materials, mechanical properties of materials, and culinary materials. Check our website for details.

6. JOB OPENING AT SPRINGSIDE CHESTNUT HILL ACADEMY

What?

Full-time Physics teacher needed to teach Upper School Physics and a Physics II elective.

When and where?

Starting end of August 2013 at Springside Chestnut Hill Academy.

How?

Are you ready to join a team that is a leader in science education? Are you ready to design and implement learning experiences that foster 21st-century learning skills in students?

Apply now at <http://teachphiladelphia.com>

More detail also available here:

http://www.sch.org/ftpimages/555/download/Physics_v.2_es.pdf

7. DELAWARE COUNTY COMMUNITY COLLEGE SEEKS ASSISTANT PROFESSOR IN EARTH/SPACE SCIENCE

http://www.higheredjobs.com/details.cfm?JobCode=175725814&utm_source=SimplyHired&utm_medium=organic&utm_campaign=SimplyHired

The Division of Science, Technology, Engineering, & Mathematics is seeking a tenure-track Assistant Professor of Earth & Space Science.

The ideal candidate must have a Master's degree (Doctorate preferred) in the Earth/Space sciences or Science Education with significant graduate-level earth/space science coursework, and college-level teaching experience in the earth/space sciences. Although a background that will enable the applicant to teach all general earth and space science courses is required, they are specifically seeking applicants with a strong background, demonstrated ability, and a genuine desire to teach courses designed for non-science majors at the freshman level. An educational background and teaching experience in freshman-level physics would be a plus. The specific teaching assignment will be based upon the needs of the students and the division, and may include evening and weekend courses (see course descriptions at www.dccc.edu).

Other responsibilities include assisting in course development and improvement, advising students, meeting scheduled office hours, and regular participation in discipline, division, & college meetings and committees. Faculty are expected to be committed to academic excellence and continuous improvement, working collaboratively & effectively with others (faculty, staff, & administrators), support & contribute to diversity and student success initiatives, and remain current in their subject area & teaching methodologies. The applicant must be committed to the community college philosophy, be able to demonstrate excellent teaching skills (a teaching demonstration is part of the interview process), and show evidence of being more committed to teaching than to research. The applicant also must

have the ability to employ a variety of teaching methods and be familiar with alternative learning styles, classroom technologies, and course management systems.

The College strongly encourages applications from members of traditionally under-represented groups. Interested candidates should apply online at www.dccc.edu/about-us/human-resources/employment-opportunities or send electronically only (in MS Word or PDF format), a cover letter, complete & current resume, unofficial transcripts, and a list of three references (including current immediate supervisor) to Connie L. McCalla, Vice President, Human Resources, Delaware County Community College, 901 South Media Line Road, Media, PA 19063, hr@dccc.edu. Application materials must be submitted only as a completed packet and received no later than April 12, 2013 when the review of materials will begin. Positions are open until filled. References will not be contacted without the applicant's permission.

8. REGISTER NOW FOR PHILADELPHIA SCIENCE FESTIVAL EVENTS

The Philadelphia Science Festival is a ten-day, community-wide celebration of science that takes place annually in April, featuring lectures, debates, hands-on activities, special exhibitions and a variety of other informal science education experiences for Philadelphians of all ages.

The inaugural Philadelphia Science Festival took place in April 2011 and brought together more than 120,000 to celebrate the region's strength in STEM.

The Philadelphia Science Festival aims to provide opportunities for all Philadelphians to positively engage with and build a community around science, engineering, and technology by showcasing the role that each plays in the city and region.

Working in partnership with civic, academic, scientific, corporate, and community organizations, we aim to develop an annual, sustainable initiative to:

- Create a structure in which every neighborhood of Philadelphia will host engaging high-visibility science programming;
- Engage and excite Philadelphians in the wonders of science and inspire them to interact with science, engineering, and technology events and activities on a regular basis;
- Build community among Philadelphians by creating myriad opportunities for interaction and dialogue about relevant STEM related issues.

The Philadelphia Science, Technology, Engineering, and Mathematics community has been hard at work collaborating on events for the 2013 Philadelphia Science Festival! All of the events for the Festival are immersive and interactive. Registration is open now, so reserve your seats today!

<http://www.philasciencefestival.org/calendar>

9. VERNIER OFFERS FREE EVENING DATA COLLECTION WORKSHOP

Date: Tuesday, Apr 30, 2013

Time: 4:00- 8:00 PM

Cost: Free

Location: Philadelphia, PA (specifics TBA)

Calling all science educators! Roll up your sleeves and join us in the Vernier laboratory for a free, four-hour exploration of the latest and greatest in probeware and data-collection technology.

You'll get your hands on dozens of hardware and software titles from Vernier's award-winning line of computer and handheld data-acquisition technology. One of our knowledgeable training specialists will work right alongside you, providing guidance and inspiration as you explore classroom-ready labs.

You'll leave the workshop ready to excite your students' learning with data collection. And, to make it even easier, you'll receive a complimentary electronic copy of our Workshop Training Manual, which includes ready-to-use lab handouts.

This workshop is perfect for science educators who

- Want to evaluate our award-winning technology.
- Are new to data collection.
- Need a refresher course on Vernier equipment.
- Want to learn from an expert.

Note that this is different from Vernier's workshops specific to Physics/AP Physics, which are not free and will be offered over the summer.

<http://www.vernier.com/training/workshop/3510/>

10. ROBERT MALKOVSKY MEMORIAL SCHOLARSHIP FUND

Last month Robert Malkovsky, a physics teacher at Penncrest High School in Media, Pennsylvania, passed away after a long battle with pancreatic cancer. "Mr. Mal" as his students knew him, taught physics at Ridley, Radnor, and Penncrest High Schools. At Penncrest he also coached the Physics Olympics team and mentored and befriended countless students in and out of the classroom. For 40 years he dedicated his life to teaching and all those around him were fortunate enough to enjoy his boundless energy right up to the end of his life. News of his death spread quickly throughout the community, and the outpouring of emotion that followed was indicative of the lasting impression he left on so many. Mr. Mal was an incomparable educator, mentor, confidant and friend. His energy and spirit pervaded everything he did in and out of the classroom. Though we mourn his passing, we may also celebrate his life and count ourselves better off for having known him.

To that end, an effort is underway to establish a memorial scholarship dedicated to Mr. Mal and his legacy. Many were inspired and encouraged to enter the sciences thanks to his guidance, while many more came to a better understanding of physics thanks to his tireless effort, creativity and artistry. Therefore, those who remember him are seeking to create a yearly scholarship for a graduating Penncrest senior entering the sciences as a fitting tribute and a lasting remembrance.

Dr. William Kane, a professor at Penn and former student of Mr. Mal's, writes:

"He was quite frankly one of the best educators many of us have ever been fortunate enough to know, and his tireless devotion to his students left a lasting legacy that has traveled through several generations of our community.

"In an effort to extend that legacy a group of alumni are establishing a scholarship fund in his memory. We're setting out to endow awards for a male and female graduating senior at Penncrest who will be majoring in a STEM field in college. Many of us, me included, were inspired and encouraged to enter the sciences thanks to Mr. Mal's guidance, and we feel encouraging others to do so is a fitting remembrance."

Mr. Mal's family, friends and colleagues will have an active role in awarding the yearly scholarship, and they ask for your support and generosity to continue his legacy for future generations. Mr. Mal was an incomparable educator who epitomized the dedication and love of learning that so many of you bring to the classroom every day. For more information and to donate to the scholarship, please visit the website at, <http://www.malsmemorialfund.com/index.html>

All donations will be tax deductible through The Delaware County Community Foundation via a fund (501 (c)(3)) under the name "The Robert Malkovsky Memorial Fund." Checks may also be mailed to: The Robert Malkovsky Memorial Fund, c/o DCCF, P.O. Box 496, Wayne, PA 19087

11. KACZMARCZIK LECTURE AND HIGH SCHOOL OPEN HOUSE AT DREXEL

The Drexel University Department of Physics cordially invites you to the 18th Annual Kaczmarczik Lecture, "Superposition, Entanglement, and Raising Schrödinger's Cat", Dr. David Wineland, Winner of the 2012 Nobel Prize in Physics, Monday, April 15 2013, 3:30 PM, Main Building, 3141 Chestnut Street, Philadelphia, PA 19104.

In 1935, Erwin Schrödinger, one of the inventors of quantum mechanics, illustrated his discomfort with the theory by pointing out that its extension to the macroscopic world could lead to bizarre situations such as a cat being simultaneously alive and dead, a so-called superposition state. Today, we can create similar situations on a small scale, such as putting an atom in a "bowl" and placing it on the left and right sides of the bowl simultaneously. Superpositions might be useful for computation. For example, two energy levels in an atom, labeled "0" and "1," can be used to store information like the bits in our laptops. However, as in the atom/bowl experiment, we can arrange the quantum bit to be in a superposition, thereby storing both states of the bit simultaneously. This property leads to a memory and processing capacity that increases exponentially with the number of bits. This and a related property called "entanglement" would enable a quantum computer to efficiently solve problems that are intractable on normal computers. So far, scientists have constructed quantum computers composed of only a few bits, but with advances in technology, we believe a useful device may someday become a reality.

Dr. David Wineland received a B.A. from the University of California, Berkeley in 1965, and a Ph.D. in physics from Harvard University in 1970. After a postdoctoral position at the University of Washington, he joined the National Bureau of Standards (now the National Institute of Standards and Technology) in Boulder, Colorado. He is a NIST Fellow and leader of an experimental group that explores the applications of laser-cooled trapped atomic ions, including the development of high-performance atomic clocks, research on quantum information processing, and tests of fundamental physical laws. Wineland's awards include the 2012 Nobel Prize in Physics, the Department of Commerce Gold Medal, the Society of Optical and Quantum Electronics' Einstein Medal for Laser Science, the APS' Arthur L. Schawlow Prize in Laser Science, the International Award on Quantum Communications, the Optical Society of America's Frederic Ives Award, and the National

Medal of Science.

The lecture will be preceded by a High School Open House program:

12:00-12:30pm Main Building Auditorium;

12:30-2:30pm Department of Physics Open House

Brief presentations on Biophysics, Astrophysics, Computational Physics, Condensed Matter, Nonlinear Dynamics, Particle Physics, etc. An excellent opportunity for high school students to visit our laboratories and meet in person with our internationally recognized researchers.

2:30-3:00pm Reception

For more information or to register online visit: <http://www.drexel.edu/physics/kacz>

12. WIDENER UNIVERSITY HOSTS TEACHERS' STARGAZING NIGHTS

Widener is hosting two stargazing nights for teachers. Come and see the moon, planets, and stars through Widener's 16-inch telescope! All teachers through the secondary level are welcome.

Tuesday, April 16th, 8-9 pm (rain date: April 23rd)

Space is limited to 20 teachers. To reserve a space, email [tasminkey -at widener.edu](mailto:tasminkey@widener.edu) or by telephone, 610-499-4003.

13. WIDENER UNIVERSITY'S SCIENCE TEACHING CENTER OFFERS STEM TEACHER EXCHANGE

When – spring 2013 or fall 2013; approximately every 6 weeks

Where – Widener University Science Teaching Center (213 Kirkbride Hall)

Who – Middle Level and Secondary Teachers

The STEM Teacher Exchange is based on a teacher-led professional development model where local teachers come together and share ideas. Each exchange will be composed of two parts: The first part will be problem-based where teachers help one another solve problems through a process called "Tuning Protocol." Basically a few identified teachers bring an issue for sharing with the group. It might be something they are having trouble with in the areas of content, pedagogy, or assessment. Presenting teachers can bring along copies of lesson plans, student work or whatever else will help the group to understand the problem. The goal is to help the presenting teacher improve or "fine tune" his/her work. The scope of the group's work will largely be determined by a focusing question framed in advance by the presenting teacher. Since we will have this information before the actual meeting, other participating teachers can bring along artifacts that they use to address the issue being discussed. Widener University faculty from a variety of backgrounds (the sciences, mathematics, and education) will also be available to join in as problem solvers too.

Some themes that in-service teachers are especially interested in may include (1) exploring/assessing students' understanding/thinking/misconceptions based on their work; (2) how to respond to students' errors/misconceptions, such as how to help students correct mistakes; (3) classroom management; (4) engaging lesson planning; (5) pedagogical content knowledge, i.e., how to unpack content knowledge in ways that are comprehensible to students; (6) or sharing self-made videos. We may invite different

experts on these themes to join us as we attempt to answer teachers' questions and provide substantive feedback.

Our first teacher exchange will be focused on motivating students in math and science classrooms. Once we get started, the topics may be drawn from a list of themes that teachers themselves identify.

First Teacher's Exchange Agenda

4:00-4:20 Welcome and Introduction to Tuning Protocol

4:20-4:50 Tuning Protocol –

~ 5-10 minutes: Presenter – brings one focus question with details based on the problem of motivating students in math and science

~ 5 minutes: Participants – ask clarifying questions and examine presented artifact; Presenter responds openly to questions

~ 10-15 minutes: Participants – provide warm and cool feedback; Presenter does not speak; writes down all ideas for reflection later

~ 5 minutes: Presenter – Summarizes the feedback and selects possible ideas for initial course of action

~ 2 minutes Facilitator: Debriefing – How was this helpful?

5:45-6:00 Top Ten List

~ Teachers will develop a list of issues that they would like to see the Teacher Exchange focus on in future meetings

~ Reflection on the teacher exchange – evaluation and suggestions for moving ahead.

The contact person for Widener's Teacher Exchange is: Nadine McHenry, Ed.D., Director of the Science Teaching Center, School of Education, Innovation, and Continuing Studies, 610-499-4259, 484-410-3806 (cell), ncmchenry -at- widener.edu

14. MODELING WORKSHOPS OPEN THIS SUMMER IN NJ, PA, AND NATIONWIDE

The American Modeling Teachers Association (AMTA) is sponsoring a number of workshops this summer for Biology, Chemistry and Physics teachers interesting in learning more about Modeling Instruction. A listing of these workshops can be found at:

<http://modelinginstruction.org/teachers/workshops-2013/> The AMTA website also contains other information pertaining to modeling instruction.

The Spring meeting will also feature a mini-workshop on Modeling, which will be an excellent opportunity to learn more about this effective instructional strategy.

I've attached the flyer and the application for the closest Modeling Workshop to Philadelphia, which I (Jillian) actually attended last summer, at Clearview Regional High School in New Jersey, near Rowan University. It was a FREE, interesting, and useful experience, and helped me rethink some of how I teach first-year physics. CRHS is about about a forty-minute drive from my house near Center City. Workshops are also available for Chemistry and Biology, although the Physics program is the oldest and most thoroughly developed.

Here is a full listing of the closest workshops and some more information about them:

SUNY-Buffalo State College

Dates: July 22-August 9

PHY620 (6cr) Powerful Ideas & Quantitative Modeling in Mechanics

leaders: Dr. Luanna Gomez & colleagues

Contact: Luanna Gomez

PHY622 (6cr) Powerful Ideas & Quantitative Modeling in Electricity and Magnetism with supplements (microscopic models of matter).

leaders: Dr. Dan Maclsaac & colleagues

Modeling workshop master teachers TBA

tuition: \$2245.20 in state, \$3595.20 non residents

some financing available

housing available on campus, approximately \$320 per week

parking permit \$10

Contact: Dan Maclsaac or (716) 878-3802

Teachers College-Columbia University

Dates: July 22-August 9

Content: Mechanics

Leaders: Craig Buzska & TBA

Content: Electricity & Magnetism

Leader: Michael Crofton & Mark Schober

Content: Chemistry I (9 core units)

Leaders: Donghong Sun & Larry Dukerich

Contact: Fernand Brunschwig

Visit the Physics Teachers NYC for details

Click here for further details

Clearview Regional HS – Mullica Hills, NJ

Dates: July 8 – 26

Content: Mechanics

Leader: Doug Valette

Content: Chemistry I (9 core units)

Leaders: Jim Navins & Maureen Huhman

Dates: July 29 – August 16

Content: Biology

Leader: Angela Gard

Limited housing is available – \$700 for 20 nights

Follow these links to a brochure for details and for an application form

General Information

Fifty Modeling Workshops in high school physics, chemistry, physical science, and biology will be offered in summer 2013, in many states. Modeling Workshops are peer-led.

Modeling Instruction is designated by the U.S. Department of Education as an Exemplary K-12 science program. Some sites offer stipends, usually for in-state teachers. Graduate credit is available at some sites. Pre-service teachers and TYC faculty are welcome too.

For Information: <<http://modelinginstruction.org/teachers/workshops-2013/>>

<http://modelinginstruction.org/teachers/workshops-2013/>

Most workshops are described at <http://www.ptec.org/pd>.

Teachers say:

- * "After the first year of teaching using the modeling method, I wished I had learned about modeling years ago." - David Braunschweig (retired; consultant for Vernier Software & Technology).
- * In the one year that I have been modeling, I have seen wonderful results.
- * [As a graduate student in physics], I discovered the modeling method of instruction to be a rigorous approach to physics instruction on the high school level, and one that is consistent with the way physicists understand the universe - Doug Vallette
- * Compared to "traditional" physics teaching, at our school modeling has created:
 - (A) Larger enrollment in physics and AP Physics
 - (B) Higher retention of students majoring in engineering and science when they go off to college
 - (C) Greater quantitative analytical skills
 - (D) Greater quantitative presentation skills
 - (E) Much higher ability for "future non-science students" to communicate with science people
 - (F) No plugging and chugging.
- * We have had 3 physics teachers and 5 chemistry teachers enhance their professional development at your ASU modeling workshops. Modeling has made a world of difference in our science courses. -- Ray Howanski

Gwendolyn Hehemann <wendy -at- modelinginstruction.org> is the outreach person for the Modeling Workshops, and can also answer any questions you might have.

15. FRIENDS SELECT SEEKS UPPER SCHOOL CHEMISTRY TEACHER

Friends Select School seeks a maternity leave Chemistry teacher for the start of the 2013-14 school year. Successful candidates should have the requisite experience to teach the curriculum left by the teacher. Interested applicants should send all information (resume, cover letter, and list of references) to Science department chair Natalie Mayer Nataliem -at- friends-select.org, <http://careers.nais.org/jobs#/detail/5248387>

16. PENN OUTREACH LECTURES AT THE LAB FOR RESEARCH ON THE STRUCTURE OF MATTER (LRSM)

Since 1994, the LRSM has presented a monthly series of materials-based lectures during the school year to science teachers. These are given by faculty and staff associated with the LRSM. The lectures are free, take place on Thursday evenings at 5:30 pm and are followed by food and refreshments during which teachers can engage the speaker in conversation about the talk or other aspects of education. Teachers can also receive Act 48 credit. The theme for this year's lectures is "Advanced Materials: Synthesis, Characterization, and Properties."

All lectures take place at the LRSM, which is located at 3231 Walnut Street, in Philadelphia. Upcoming lectures include:

- May 16 -- David Pope, Materials Science and Engineering "Metals: Are They Going Out of Fashion?"
- June 13 -- Mojca Cepic, Physics, University of Ljubljana "Liquid Crystals"

More information is available at the link below, and in the attached PDF. If you are interested in attending, please contact Andrew R. McGhie at 215-898-6461 or at mcghie -at- lrsn.upenn.edu. <http://www.lrsn.upenn.edu/outreach/teachers.htm>

17. PENN OUTREACH SCIENCE CAFE PROGRAM FROM LAB ON THE RESEARCH OF THE STRUCTURE OF MATTER

In October 2010, the LRSM (see above) also began a monthly series of materials-based Science Cafes. These are popular science talks on specific aspects of materials, such as fuel cells or solar power, given by affiliated faculty at a local restaurant or bar in a relaxed setting conducive to setting up a dialogue between the speaker and the audience. These talks begin at 6:30 PM, and are open to the general public, not just to science teachers. The 2013-2013 series has two primary regional locations -- at Stoney's British Pub in Wilmington, Delaware, and at the World Cafe Live in Philadelphia.

Upcoming talks include:

April 10, 2013 -- Robert Johnson, Physics & Astronomy, University of Pennsylvania
"Ultrafast DNA sequencing: speed-reading the blueprint of life."
6:30 PM, World Cafe Live, 3025 Walnut Street, Philadelphia PA

May 15, 2013 -- Monica Mickute, Engineering, Drexel University
"Design and Construction of a Green Roof"
6:30 PM, World Cafe Live, 3025 Walnut Street, Philadelphia PA

May 20, 2013 -- Doug Durian, Physics, University of Pennsylvania
"Granular impact craters and avalanches"
6:30 PM, Stoney's British Pub, 3007 Concord Pike, Wilmington DE

For more information, see the attached PDF, or check out the LRSM's website:
<http://www.lrsn.upenn.edu/outreach/sciencecafe.html>

18. SUMMER 2013 TEACHER PROGRAMS AT THE NASTAR CENTER

NASTAR Center Teacher Professional Development Programming for 2013

Since 2010, more than 150 teachers have attended professional development programs at the National AeroSpace Training And Research (NASTAR) Center in Southampton, PA. The emphasis for teacher programming is on fun, experience-based learning that provides teachers with practical tools and activities that they can apply in a classroom environment. Teachers can experience a 3-G suborbital spaceflight simulation in the NASTAR Center centrifuge, ascend to 8,000 feet in the altitude chamber, or learn how airplanes are controlled while piloting the GAT II simulator.

For 2013, the NASTAR Center is adding two brand new teacher professional development programs: "The Atmosphere and Weather," and "Exploring the Solar System."

The NASTAR Center is an approved provider of Act 48 continuing education hours by the Pennsylvania Department of Education. Each program is worth 8 hours of continuing education.

The schedule for 2013 is as follows:

July 8, 2013, Monday Flight Physiology
July 9, 2013, Tuesday 500 Years of Flight
July 10, 2013, Wednesday The Magic of Flight
July 11, 2013, Thursday Rocket Science
July 12, 2013, Acceleration

July 15, 2013, Monday The Atmosphere and Weather
July 16, 2013, Tuesday Exploring the Solar System
July 17, 2013, Wednesday 500 Years of Flight
July 18, 2013, Thursday Rocket Science
July 19, 2013, Acceleration

July 22, 2013, Monday The Atmosphere and Weather
July 23, 2013, Tuesday Exploring the Solar System
July 24, 2013, Wednesday The Magic of Flight
July 25, 2013, Thursday Rocket Science
July 26, 2013, Friday Acceleration

The non-profit NASTAR Foundation is sponsoring these programs so they are being offered AT NO COST TO TEACHERS. If you are coming from out of town, we have arranged a meal/room package at a special rate in an area hotel. For enrollment information, contact Greg Kennedy at (215) 355-9100, X 1512, or via email at gkennedy@nastarcenter.com. A registration packet may also be downloaded from the NASTAR Center website, www.nastarcenter.com.

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www.NastarCenter.com

19. SEPS AAPT ONLINE:

For news, upcoming events, and photos of past events, check out the SEPS AAPT web presence online and on Facebook!

Website: <http://www.physics.upenn.edu/~aapt/>

Facebook: <https://www.facebook.com/?ref=logo#!/group.php?gid=166735829132>