

## Tentative 2015/16 Schedule

Updated information will be posted to [www.slapt.org](http://www.slapt.org) and associated links throughout the year along with a link to update your email address.

### August 22, 2015: Free Videos in Physics-Flipping Classroom

Host: Jen Meyer, David Schuster, and Ryan King

Time: 8:30 am to 12:00

Place: Parkway Central High

*Details on other side . . .*

### September 19, 2015: Adventures in Video Assessment!

Hosts: Jim Cibulka, Justin Flack

Time: 8:00 a.m. – 12:00

Place: Kirkwood High School

*Details on other side . . .*

### October 3, 2015: Six Flags for Teachers

Hosts: Rex Rice and Six Flags

Time: 8:00 a.m. – 1:00 p.m.

Place: Six Flags St. Louis

*Details on other side . . .*

### November 2015: Rotational Mechanics

Hosts: Rex Rice and others

Time: 8:00 a.m. – 12:00

Place: Clayton High School

*Details on other side . . .*

### December 2015: E&M Electrostatics

Host: Rex Rice, David Schuster, and Jen Meyer

Time: 8:00 a.m. to 12:00

Place: Clayton High School

*Details on other side . . .*

### Thursday, January 21, 2016: Engineering Applications, 3-D Printers and the NGSS

Host: Kryss Erickson and Bob Brazzle

Time: Evening Workshop Time TBA

Place: Villa Duchesne

### February 2016: Joint ACS/SLAPT

Time: 8:00 a.m. – 12:00

Place: TBA

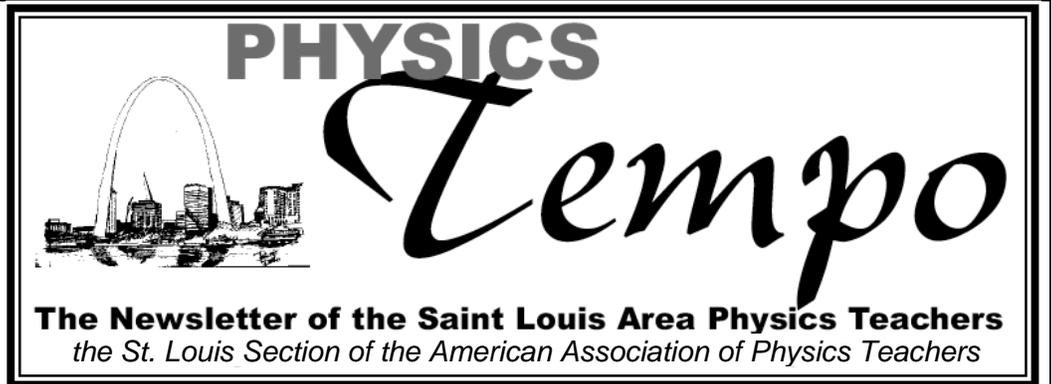
Details: TBA

### March 5, 2016: LET THE GAMES BEGIN! Physics Pursuit and others

Host: Gail Haynes and Bob Brazzle

Time: 8:00 a.m. - 12:00

Place: Eureka H.S.



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Fall 2015

## Join the St. Louis Area Physics Teachers!

You are invited to join the St. Louis Area Physics Teachers, a dynamic group of some of the finest teachers in the nation. We sponsor a variety of workshops, make-n'-takes, and sharing sessions that are hosted and led by teachers in the St. Louis area. SLAPT members support each other and benefit from one another's expertise in the challenging craft of physics teaching. Bob Brazzle shares his thoughts in his President's message below.

Join SLAPT by visiting [www.slapt.org](http://www.slapt.org). Then, share your contact information under the "Mailing List" link to receive reminder emails. A few times each month, email updates are sent about upcoming events, messages from SLAPT members, and announcements about community activities of interest to physics teachers.

## SLAPT President's Welcome

Welcome to the 2015-16 school year! Welcome back from what I hope was a relaxing and rewarding summer break. I hope your 2015-16 school year will be a good one. During our May planning meeting, we reviewed your responses to our survey and discussed the likely program-level changes brought on by the new AP Physics courses and the NGSS. From these discussions, we put together a diverse portfolio of professional development offerings to address these issues.

We begin in August with a workshop by David Schuster and Jen Meyer. They'll be sharing free videos and how they use them in their classes. They'll also show how they've flipped their classrooms. The September workshop will be presented by Jim Cibulka and Justin Flack, who will share how Kirkwood uses video-based assessments for standards-based grading. Later workshops include Rex Rice and others presenting on Electricity and Magnetism (the two most-requested topics from the survey) and Rotational Mechanics. Our new webmaster Kryss Erickson and I will be presenting a workshop exploring engineering applications and how they relate to the NGSS standards. Gail Haynes and I will be co-facilitating a make-n-take workshop about physics games for reviewing content while having fun. We hope to collect review questions from the entire membership so that this becomes a SLAPT effort which can benefit all of us.

Naturally, there are the recurring annual workshops and events as well. We anticipate that the joint SLAPT/ACS workshop will be held at Ladue in February and focus on adapting the modeling approach for both disciplines. In October we'll have the Six Flags preparation workshop, and in April the Six Flags physics day, followed by the SLAPT Physics contest at Washington University. So, it's an exciting set of workshops and events we've got planned. I hope to see you there!

*Bob Brazzle, bobbrazzle@yahoo.com, President, SLAPT*



April 22, 2016: Six Flags Physics Day  
Time: 9:00 a.m. to 5:00 p.m.  
<http://www.slapt.org/resources/sixflag/index.html>

April 23, 2016: Annual SLAPT Physics Contest at Wash U.  
Start planning now to bring your students for this annual competition, now in its 37<sup>th</sup> year!

May 2016: SLAPT planning meeting for 2016-2017  
Contact: SLAPT President-Elect Jen Meyer

**2015-2016 SLAPT Officers**  
President..... Bob Brazzle  
President Elect..... Jen Meyer  
Past-President..... Val Michael  
AAPT Section Rep... Bob Brazzle  
Treasurer..... Gene Bender  
Website..... Kryss Erickson and Mike Johns



### *Opening Workshops Fall 2015*

#### Free Videos in Physics – Flipping Classroom

When: August 22, 2015, 8:30 a.m. to 12:00

Where: Parkway Central High School

David Schuster, Jen Meyer, and Ryan King will be running a workshop on using a variety of video resources in the Physics classroom. They will focus on videos and their uses in physics classrooms. There will be several breakout sessions. See the complete list and additional details at [www.slapt.org](http://www.slapt.org). Email Jen Meyer if you have questions: [jenmeyer82@gmail.com](mailto:jenmeyer82@gmail.com)

#### Adventures in Video Assessment!

When: September 19, 2015, 8:00 a.m. – 12:00

Where: Kirkwood High School

How KHS uses open ended videos to assess student understanding. In this workshop, we will share how we have broken down our units into discrete learning goals, which we assess via standards based grading; and how we then integrate those skills into a whole unit open ended assessment. As time permits, we will share problem solving strategies and the use of Scribbler 2 robots.

### **Six Flags Events Continue for October 2015 and April 2016!**



Mark your calendars now for our 2015 Teacher Workshop at Six Flags on Saturday, October 3, and for Physics Day 2016, scheduled for April 22.

Six Flags has supported SLAPT's development of a comprehensive educational component for Physics Day and has made Physics Day separate from Math and Science Day, giving students more time on the rides and reducing lines. To learn more about how to include amusement park physics into your classroom, join us (and bring a guest) for a free workshop at Six Flags on October 3 at 8am. We'll begin with a behind-the-scenes tour of the engineering that makes the rides work. Next, we'll provide an overview of the resources available to use with students in preparation for Physics Day and to use at Physics Day. Finally, we'll strap on our wireless data collection devices and ride, ride, ride! Regular Park Hours: 12 p.m. - 12 a.m.

RSVP to Leanne Creek [lcreek@sftp.com](mailto:lcreek@sftp.com), with "Physics Workshop" in the subject line and you and your guest's name in the body of the note. Additional Six Flags Physics day curriculum materials and information can be obtained at: <http://www.slapt.org/resources/sixflags/index.html>

#### **November 2015: Rotational Mechanics**

Where: Clayton High School Hosts: Rex Rice and Mike Johns

Following the AP Physics B redesign to 1 and 2, there is a renewed interest in all things rotational. Many of last year's workshop demonstrations of rotational mechanics will now be more detailed with multiple stations set up for workshop participants to perform the labs and activities. Based on interest there may be potential for follow up make-n-take sessions.

#### **December 2015: Electricity and Magnetism – focus on Electrostatics**

Where: Clayton High School Hosts: Rex Rice, David Schuster, and Jen Meyer

This workshop is tentatively focusing on electrostatics as a reprise from a very informative workshop several years ago. Participants will conduct hands-on activities and labs in electrostatics and other E&M activities. Further details will be provided in the coming months.



**St. Louis Area Physics Teachers**

The St. Louis Section of the American Association of Physics Teachers

c/o Gene Bender, DeSmet Jesuit High School  
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