

Yale Department of Physics

Yale Physics Newsletter

November 2, 2018

Hints & Tips!

Welcome to our new hints and tips section! Please email daphne.klemme@yale.edu with any helpful tips that will help us work to our best ability.

Some helpful notes on Box@Yale! 1) A document can be locked while being edited: [log into box](#) using your netID and password, find the document you wish to edit and hover over the document name look for the three dots to the right of the file name (more options) and click on them, then select lock from the menu options – under lock you can set a time-limit (unlimited, 5 min, etc.) and lock for download, try to remember to unlock when editing is finished! 2) If working on a file on box there is a tool called Box Edit which lets you edit files on Box using the applications on your computer, [click here for a description](#); and 3) You can have Box behave like another folder under file explorer (on Windows machines) by using the Box Sync for Windows Tool, [click here for a description](#). Check out [Box Applications](#) for tools which may be useful.

News

Congratulations to **Michela Paganini** on the successful defense of her dissertation “Machine Learning in High Energy Physics: Applications to Electromagnetic Shower Generation, Flavor Tagging, and the Search for di-Higgs Production”! Her thesis advisor was Paul Tipton.

We now have Slack for Yale Physics Department. This comes from several students and groups who have independently expressed the desire for a group chat environment where people in the Physics Department can communicate without clogging up the general email lists.

For those of you familiar with Slack and are interested to use it, [go ahead and sign up](#).

For those of you who are not familiar, we explored several options like Facebook groups, other email lists, WhatsApp group, etc. and settled on Slack as the right tool for us. It is not meant to replace our official website or email distribution of information but can be used for rapid communication among people on Slack in our department.

Save the Date

November Recess is scheduled November 16, 2018 (starting at 5pm) through November 25, 2018. Have a nice break!

Seminars

Monday, November 5

2:30pm in Sloane Physics Lab 51. Graduate Methods Seminar. Paul Fanto, Yale University, “Numerical Stability”.

3:30pm in Becton 3rd Floor Alcove. Special Seminar on Semiconductor Devices and Technology. Zhan Liu, Yale University, “Ferroelectric-Gated NOSFET and Negative Capacitance”. Host: T.P. Ma.

3:30pm in Sloane Physics Lab 57. Physics Club. Josh Schaevitz, Princeton University, “What animals do and how brains control them”. Host: Simon Mochrie. Tea after the talk outside the lecture hall.

Tuesday, November 6

9:00am in Yale Quantum Institute Seminar Room. Dissertation Defense. Clarke Smith, Yale University, “Design of Protected Superconducting Qubits”. Thesis advisor: Michel Devoret.

2:30pm in Watson Center A-51. Yale Astronomy Post-Doctoral Fellows Seminar. Dr. Songhu Wang, Yale University, “Exoplanetary Diversity and Uniformity”.

4:00pm in Sloane Physics Lab 57. Special Physics Club. Eduardo H. da Silva Neto, University of California, Davis, “Universal Charge Order in the Cuprate High T_c Superconductors”. Host: Paul Tipton. Tea after the talk outside the lecture hall.

4:00pm in Bass 405. Special QBio/PEB Seminar. Monika Scholz, Princeton University, “Reading the mind of the worm: Predicting natural behavior from whole-brain neural dynamics”. Host: Joe Howard. Tea at 3:45pm.

4:00pm in Sterling Chemistry Lab 111. Silliman Lecture in Physical Chemistry. Professor Daniel Mittleman, Brown University, “Recent Advances in Terahertz Spectroscopy”.

Wednesday, November 7

12:00pm in Wright Lab 216. Yale Physics Professional Development Organization Event. Panel on applying for and transitioning to a post-doc with Vivienne Baldassare, Ben Saliwanchik, Giantonio Pezzullo, and Vijay Jain. Lunch is served starting at 11:45am. [RSVP requested](#).

2:30pm in Mason Lab 107. Yale Mechanical Engineering and Materials Science Seminar. Dan Goldman, Georgia Tech, “Robotics meets physics: locomotion robophysics”.

4:00pm in Sterling Chemistry Lab 160. Molecular, Cellular and Developmental Biology Seminar. William Snell, University of Maryland, “When Unicellular Organisms Flirt with Multicellularity: The Origins of Ciliary Signaling and Cell-Cell Fusion”. Host: Joel Rosenbaum.

Thursday, November 8

2:30pm in Watson Center A-51. Yale Astronomy & Astrophysics Colloquium. Stephanie Tonnesen, Simons Foundation - Center for Computational Astrophysics Flatiron Institute, "Title TBA".

7:30pm in Linsly-Chittenden Hall 101. Yale Quantum Institute Presents. Douglas Stone, Yale University, "Einstein and the Quantum: How to write a fun book about a really scary subject". Co-sponsored by the Franke Program in Science and the Humanities.

Friday, November 9

12:00pm in Yale Quantum Institute Seminar Room. Yale Quantum Institute Seminar. Hakan Tureci, Princeton University, "Quantum electrodynamics of superconducting circuits". Host: Doug Stone.

12:00pm in Sterling Chemistry Lab 111. STEM Education Seminar. Dr. Richard N. Steinberg, The City College of New York, "Making Sense of How Students Make Sense of Science". [Please RSVP for lunch.](#)

4:00pm in Kline Geology Lab 123. Geology & Geophysics Colloquium. Ian Hewitt, Oxford, "Title TBA".

Saturday, November 10

9:00am Sloane Physics Lab. Girls' Science Investigations. "The Electromagnetic World" – Session #2.

For more seminars see: <http://physics.yale.edu/calendar>

As with all communication tools, please use it responsibly. You can set up new channels as you see fit. Many scientific collaborations use Slack for rapid communications among colleagues spread across multiple continents allowing for rapid communication in ways that are productive and collegial. [Here is a piece on how NASA-JPL uses it.](#) I am the admin and your point of contact for Slack at least for now.

See you around on campus, and some of you on Slack!

[Announcements](#)

For further information on any of the items included here or if you would like to contribute to the next newsletter, send email to [Daphne Klemme](mailto:Daphne.Klemme).

Pierson-Sage Parking Garage News

This is an update on the situation at the Pierson Sage Garage.

The long running major repair project continues to make progress but will not be complete this fall. The latest estimate has the project going into winter break. Aside from that general time frame, there aren't any more specifics.

Starting on Wednesday, November 7th, the upper level entry AND exit lanes will be closed to deal with more holes in the concrete. This work will take approximately one month as the cement requires sufficient cure time.

We are getting keypads installed at the lower level to maintain visitor parking which is important to departments.

We are also pushing to get an exit lane opened in lot 16 to expedite exiting the lot. We are fully aware of the inconvenience this causes, but we are at the mercy of the repair project.

At this time, we also need to remind everyone, that parking in lot 16 is not an option. Vehicles with Pierson Sage assignment parked in lot 16 are subject to tow

without notice. Towing is not pleasant for anyone thus we ask that everyone please park in their designated location.

Flu Shot Information

Flu Shot Clinics

Flu shots are free for all Yale staff, faculty, students, seniors and Yale Health members.

Adults and children over 5 years of age can go to any of the flu clinics. Children 6 months through 4 years can ONLY go to the flu clinics offered at the Yale Health Pediatrics Department. Children under 18 years old must be accompanied by an adult.

High dose flu vaccine is available at all of the flu clinics except the ones at the Yale Health Pediatrics Department.

Date	Time	Location	Ages
Tues., Nov. 6	10am to 3pm	Yale School of Medicine, Harkness Lounge	5 years and older
Thurs., Nov. 15*	2pm to 7 pm	Yale Health Center, 1st Floor	5 years and older
Sat., Nov. 17	9am to 1pm	Yale Health Pediatrics, 3rd Floor	6 months and older
Tues., Nov. 27*	2pm to 7pm	Yale Health Center, 1st Floor	5 years and older
Sat., Dec. 1	9am to 1pm	Yale Health Pediatrics, 3rd Floor	6 months and older

*On these dates Flu FIT home-based colon cancer screening kits will be available for eligible adults with a Yale Health primary care provider.

Yale Police Department Turkey Drive - make a difference

Help a family in need this Thanksgiving, by making a contribution to the annual YPD Turkey Drive. The Yale Police Department is accepting monetary donations **now through November 13** for their annual turkey drive event. Last year, over \$5,000 was raised, feeding over 1,000 New Haven residents.

Donations can be made via cash or check (payable to Officer Martin Parker) by mail or in person at the Yale Police Department, 101 Ashmun Street, New Haven.

For additional information, please contact Officer Martin Parker at 475-234-9079 or martin.parker@yale.edu.

[Please click here for updates on the Yale Science Building, including a new logistics plan.](#) The project encompasses the construction of a new state of the art sciences laboratory at the approximate location of the demolished J.W. Gibbs building, a comprehensive renovation of the KBT Plaza, a lecture hall, and a common area at the south end of KBT Plaza.