

Yale Department of Physics

Yale Physics Newsletter

April 12&19, 2019

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).

Hints & Tips!

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

Rooms!

Please notify the business office if you know ahead of time that your class-time will extend beyond the normal time. There are times that special events are scheduled for after a class time.

Summer Undergraduate Research

If you plan to have a minor or visiting undergraduate participate in research or clinical activities, please complete the appropriate application through EHS Integrator at <https://ehsis.yale.edu/EHSIntegrator/Registration>.

Applications must be submitted and authorized prior to the student's participation in any research or clinical activities. Applications will not be authorized until all training and laboratory compliance issues have been completed.

The applications have recently been revised and now require you to provide the following additional information:

- An email address for the student to allow EHS Integrator to provide training requirements directly to them.
- The student's current educational status including their academic institution, degree upon completion and major area of study.

An instructional help guide, and list of Frequently Asked Questions have recently been revised to better assist you in the application process:

- [Instructional Help Guide](#)
- [Frequently Asked Questions](#)

Read the revised policies:

- [Minors Participating in Research or Clinical Activities Policy](#)
- [Visiting Undergraduates Participating in Research or Clinical Activities Policy](#)

Save the Date

The 2019 Leigh Page Prize Lectures will be held April 29-May 1, 2019. Raymond E. Goldstein, University of Cambridge: April 29th "Stirring Tails of Evolution", April 30th "Individual and Collective Dynamics of Active Matter", and May 1 "Upside-Down and inside-out: Biomechanics of Cell Sheet Folding". [Click here for a copy of the poster](#).

Be prepared! Exam week is coming starting Thursday, May 2, 2019 at 7pm and going through Wednesday, May 8, 2019.

Seminars

Week of April 15th

Monday, April 15

9:00am in Yale Quantum Institute Seminar Room. Dissertation Defense. Prashanta Kharel, Yale University, "Utilizing Brillouin Interactions for Optical Control of Bulk Acoustic Waves". Thesis Advisor: Peter Rakich.

1:15pm in Sloane Physics Lab 56. Special Theoretical Physics Seminar. Rachel A. Rosen, Columbia University, "Black Holes for Massive Gravitons". Host: Jack Harris.

3:30pm in Sloane Physics Lab 57. Physics Club. Brian Nord, Fermilab, "AI In the Sky: Implications and Challenges for the Application of Artificial Intelligence in Physics and in Society". Host: Sarah Demers/Bonnie Fleming. Tea after the talk outside the lecture hall.

4:00pm in Bass 305. Department of Molecular Biophysics and Biochemistry Departmental Colloquium. Roy Duncan, Dalhousie University, "The reovirus FAST proteins: modular minimalist membrane fusion machines". Host: Daniel DiMaio. 3:45pm Tea.

4:00pm in Sterling Chemistry Lab 110. Department of Chemistry Berson Memorial Seminar. Melanie Sanford, University of Michigan, "Development of Metal-Catalyzed Reactions for Introducing Fluorine into Organic Molecules".

Tuesday, April 16

9:00am in Yale Quantum Institute Seminar Room. Quantum Computing Workshop for Undergraduate and Graduate Students. [RSVP required](#).

12:00pm in Wright Lab-Connector 245. WIDG Seminar. Quentin Buat, CERN/Simon Fraser University, "Dissecting the Higgs boson with ATLAS and leptons". Lunch will be served outside of Wright Lab-Connector 245 beginning at 11:45am. [RSVP required](#).

2:30pm in Watson Center A-51. Department of Astronomy Post-Doctoral Fellows Seminar. Maciek Wielgus, CfA Harvard/Smithsonian, "First results from the Event Horizon Telescope".

4:00pm in Davies Auditorium. Department of Electrical Engineering The 2019 Nyquist Lecture. Ivan Sutherland, Portland State University, "Hierarchy". Host: Rajit Manohar.

Wednesday, April 17

4:00pm in Sterling Chemistry Lab 160. The Department of Molecular, Cellular and Developmental Biology Seminar. Yang Shi, Boston Children’s Hospital & Harvard Medical School, “Manipulating epigenetic regulators to enable Immune checkpoint blockage”. Host: Weimin Zhong. 3:45pm Tea.

4:00pm in Bass 305. Department of Molecular Biophysics and Biochemistry Colloquium. Sir John Meurig Thomas, University of Cambridge, “Architects of Structural Biology: Bragg, Perutz and Kendrew”. Host: Peter B. Moore. 3:45pm Tea.

4:15pm in Leet Oliver Memorial Hall 215. Department of Mathematics Colloquium. Toshiyuki Kobayashi, University of Tokyo, “Global Analysis of Locally Symmetric Spaces with Indefinite-metric”.

Thursday, April 18

1:00pm in Sloane Physics Lab 52. Condensed Matter Seminar. Xie Chen, Caltech, “Title TBA”.

2:30pm in Watson Center A-51. Yale Astronomy & Astrophysics Colloquium. Ilse Cleeves, CfA Harvard/Smithsonian, “X-ray Driven Time-Domain Astrochemistry During Planet Formation”.

6:00pm in Curran Community Room at Gateway. Yale Quantum Institute Event. Arts & Ideas Festival 2019 Launch Party. [RSVP by Tuesday, April 16.](#)

Friday, April 19

12:00pm in Sloane Physics Lab 59. The Raymond and Beverly Sackler Institute for Biological, Physical and Engineering Sciences. Sackler Discussion Group. Michael Grome, Cell Biology, Yale University, “Vesicle Tubulation with Self-Assembling DNA Nanosprings” and Zhe Mei, Chemistry, Yale University, “Computational Protein Redesign Using NMR Structures”. Lunch served at 11:45am.

4:00pm in Kline Geology Lab 123. Department of Geology & Geophysics Colloquium. Rita Parai, Washington University, St. Louis, “Xenon and the history of volatile transport into the mantle”.

4:15pm in TBD. Department of Mathematics Colloquium. Michael Hochman, Hebrew University, Jersusalem/IAS, “Title TBA”.

6:00pm in William L. Harkness Hall 117. Association for Women in Science – Yale Chapter Inaugural Meeting. Meg Urry, Yale University, “How to Succeed in Science”. Pizza provided!

Week of April 22nd

Monday, April 22

3:30pm in Sloane Physics Lab 57. Physics Club. Cindy Regal, University of Colorado, JILA, “Catching, interfering, and entangling single bosonic atoms”. Host: David DeMille/Jack Harris. Tea after the talk outside the lecture room.

4:00pm in Bass 305. Department of Molecular Biophysics and Biochemistry Colloquium. Stuart Lindsay, Arizona State University, “Protein-molecular electronics”. Host: Nikhil Malvankar. 3:45pm Tea.

Tuesday, April 23

12:00pm in Wright Lab 216. WIDG Seminar. Gulden (Joule) Othman, UNC, “Title TBA”.

4:00pm in Sterling Chemistry Lab TBD. Department of Chemistry Lecture in Theoretical Chemistry. Laura Gagliardi, University of Minnesota, “Title TBA”.

Wednesday, April 24

4:00pm in TBD. Molecular, Cellular and Developmental Biology Seminar. Steven McKnight, University of Texas & Southwestern Medical Center, “Title TBD”. Host: Weimin Zhong. 3:45pm Tea.

4:00pm in Kline Geology Lab 123. Department of Geology & Geophysics Collouqium. Slava Solomatonov, Washington University, St. Louis, “Magma oceans and primordial mantle differentiation”.

Thursday, April 25

2:30pm in Watson Center A-51. Yale Astronomy & Astrophysics Colloquium. Alice Quillen, University of Rochester, “Resonance Capture, Resonance Heating and the Stability of Multiple Planet or Satellite Systems”.

Friday, April 26

9:00am in Yale Wright Laboratory. Yale Subatomic Particle Visualization Contest. Artists and scientists with a Yale affiliation are invited to participate. [Click here for registration and more information.](#)

10:30am in Sterling Chemistry Lab 160. The 6th Annual Yale Biophysics and Structural Biology Symposium. [Attendance is free with registration.](#) Poster Registration is open!

Saturday, April 27

2:00pm in Burke Auditorium at Kroon Hall. Department of Astronomy Boris Garfinkel Lecture. Alice Quillen, University of Rochester, “Cracking Moons, Splashing Rubble Asteroids and Tipping Satellites: Dynamics of Soft Bodies in the Solar System”.

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

For assistance with completing or gaining access to the online application or if you have any questions or concerns regarding minors and visiting undergraduates participating in research or clinical activities, please call 203-785-3550 or email ehs@yale.edu.

[Climate and Diversity Committee News](#)

A Note from the [Climate and Diversity Committee](#) (CDC).

Last month Yale's First-Generation Low-Income (FGLI) Ambassador’s hosted a discussion on “Being a Minority in STEM”. Part of the discussion centered about the issue that students from underrepresented groups often don’t ask questions out of a fear that their questions might be “dumb” and reflect poorly not just on them but on their entire group. One interesting suggestion was for lecturers to ask, “What questions do you all have?” rather than “Does anyone have any questions?”. This shifting of the framework highlights that instructors expect everyone to have questions about the new material being covered, it's not just one or two students with areas of confusion. You can find the full anonymized transcript of the discussion here: <https://www.dropbox.com/s/9qucgo9l1arcqho/minorityinSTEM.pdf?dl=0>

The CDC convenes once a month. If interested in joining please contact Helen Caines (helen.caines@yale.edu, Chair of CDC). You may contact the whole committee at physics-cdc@mailman.yale.edu

[News](#)

Workday News

Starting April 1st you can set your preferred name in workday:

Yale University recognizes that individuals may wish to use preferred names rather than their legal names to identify themselves. Any student may designate a

preferred first name for a variety of official university list and identification systems regardless of whether they have legally changed their name. Any staff/faculty member may designate a preferred full name for a variety of official university list and identification systems regardless of whether they have legally changed their name. To edit your existing preferred name, enter a new preferred name, or delete an existing preferred name you must do so in your system of record (Workday or Student Information System). For more information on this service, please visit: idcenter.yale.edu/faqs.

The instructions are:

1. Log into the WorkDay
2. Click the Personal Information worklet
3. Click the down arrow within the Change window and select Preferred Name
4. **STOP AND READ THE INSTRUCTIONS PROVIDED AT THE TOP OF THE *CHANGE MY PREFERRED NAME* SCREEN, which are shown below:**
 - Create a preferred name below if you don't already have one in Workday, then click Submit.
 - Click your profile picture (or the cloud icon) on the upper-right corner of any Workday screen.
 - Click View Profile (right below your name).
 - Click the Personal tab.
 - Click Add and select Name Type of "ID Card".
 - Enter an ID Card Name (first and last) that matches your Preferred Name, then click Submit/OK.
5. Finally, visit an ID Center at Yale to obtain a new ID Card; more information can be found at: <https://idcenter.yale.edu/>.

Note: Staff are able to update their ID Card with preferred first name and last name at no cost beginning April 1, 2019 thru June 30, 2019.

Grace Pan (YC'2017 Physics (Intensive) Major with Distinction and winner of the Howard Schultz Prize) has been awarded a Soros Fellowship for New Americans

Emily Coates (Director of Dance Studies and Associate Professor in Theater Studies) and **Sarah Demers** (Horace D. Taft Associate Professor of Physics) in Yale News, "Physics and Dance"

Yale faculty members Emily Coates, the director of dance studies and associate professor in theater studies, and Sarah Demers, the Horace D. Taft Associate Professor of Physics at Yale, discussed their new book "Physics and Dance" and gave a demonstration at the New Haven Ballet on April 7.

[Click here for full story](#)

Announcements

[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.

Upcoming seminars now listed on the front page of the Physics Department web site!

