

Yale Department of Physics

Yale Physics Newsletter

September 21, 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.

There has been some confusion as to when equipment is considered major or minor. Minor equipment is when **a single item** is <\$5K, not the total purchase cost and major equipment is when **a single item** is >\$5K, not the total purchase cost.

News

Welcome to the Physics Department! Theoretical physicist **Ágnes Mócsy** is a professor of Physics and Astronomy at the Pratt Institute, Brooklyn, NY. For the 2018-19 academic year she is a Visiting Professor in the Physics Department as part of the Yale Presidential Fellow Program. Ágnes's current career focus is interdisciplinary, as she is an engager of science as muse for art and design, explorer of the gender and racial landscape of science, and is a public speaker, performer and promoter of science. Her first documentary film, *Smashing Matters: Behind the Science Scene*, premiered at the New Haven Documentary Film Festival in 2017. In 2016 she was elected Fellow of the American Physical Society. Previously, Ágnes held positions at the Niels Bohr Institute in Copenhagen, Denmark, as Alexander von Humboldt Fellow at the Goethe University in Frankfurt, Germany, and at the RIKEN-BNL Center at Brookhaven National Laboratory, Upton, NY.

Bonnie Fleming (Professor of Physics) research in the news

Bonnie Fleming's research is featured in the September 19th article in Yale News titled "Yale to help develop particle detector assemblies via \$1.6M grant". This is good news for Wright Lab whose high bay space and clean room facilities make in one of the few U.S. universities with the facilities and expertise to support the development of large-scale components for neutrino detectors. [Click here for the full Yale News article.](#)

APS Conferences for Undergraduate Women in Physics (CUWIP) 2019

Conference dates are **January 18-20, 2019**. The Application will open on September 3, 2018.

Save the Date

"[Symmetries and Order: Algebraic Methods in Many Body Systems](#)" a Symposium in honor of Francesco Iachello on the occasion of his retirement will be held October 5-6, 2018. The Symposium is free but [you must register in advance](#).

Seminars

Monday, September 24 Physics Club. Rouven Essig, Stony Brook University, "Direct Detection of sub-GeV Dark Matter: A New Frontier", SPL 57 at 3:30pm. Host: Reina Maruyama. Tea after the talk outside the lecture room.

Monday, September 24 Special Seminar on Semiconductor Devices and Technology. Maruf Bhuiyan, Yale University, "Ionizing Radiation Effects in Emerging Transistors", BCT 3rd Floor Alcove at 3:30pm. Host: T. P. Ma.

Monday, September 24 Molecular Biophysics & Biochemistry Seminar. Andrei Korostelev, UMass Medical School, "Visualizing the translating ribosome by ensemble cryo-EM", JEH (315 Cedar Street) at 4:00pm.

Tuesday, September 25 Department of Chemistry Silliman Lecture in Physical Chemistry. Professor Alexander Barnes, Washington University, St. Louis, "Dynamic Nuclear Polarization and Electron Decoupling with Magic Angle Spinning Spheres for HIV Cure Research", SCL 111 at 4:00pm.

Wednesday, September 26 Department of Mechanical Engineering and Materials Science Seminar. Mark Yim, University of Pennsylvania, "Challenges to Developing Low Cost Robotic", ML 107 at 2:30pm. Host: Rebecca Kramer-Bottiglio.

Wednesday, September 26 Department of Mathematics Colloquium. Xinwen Zhu, California Institute of Technology, "Hilbert's twenty-first problem for p-adic varieties", LOM 215 at 4:15pm.

Thursday, September 27 Condensed Matter Seminar. Adrian Po, MIT, "Title TBA", SPL 52 at 1:00pm.

Thursday, September 27 Yale Astronomy & Astrophysics Colloquium. Emanuele Berti, Johns Hopkins University, "A new dawn: gravitational-wave observations of binary systems on the ground and in space", WTS A-51 at 2:30pm.

Friday, September 28 Center for Teaching and Learning Seminar. Dr. Keivan Stassun, Vanderbilt University, "Toward Inclusive Excellence: Increasing PhD Attainment in the Physical Sciences for Women, Minorities, and Persons with Disabilities", DL 107 (Mann Student Center) at 12:00pm. [Please RSVP for Lunch.](#)

Friday, September 28 Geology & Geophysics Colloquium. Friedhelm von Blanckenburg, Potsdam, "Title TBA", KBL 123 at 4:00pm.

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

[For further information please see CUWIP application page.](#) The application deadline is October 12, 2018.

[Click here for printable version of the poster.](#)

For more news please see <http://physics.yale.edu/news>

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](#).

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
Mon., Oct. 1*	10am to 3pm	Yale Health Center, 1st Floor	5 years and older
Wed., Oct. 10	10am to 3pm	Yale School of Medicine, Harkness Lounge	5 years and older
Sat., Oct. 13	9am to 1pm	Yale Health Pediatrics, 3rd floor	6 months and older
Fri., Oct. 19*	10am to 3pm	Yale Health Center, 1st Floor	5 years and older
Wed., Oct. 24	4:30pm to 7pm	Yale Health Pediatrics, 3rd Floor	6 months and older
Sat., Oct. 27	9am to 1pm	Yale Health Pediatrics, 3rd Floor	6 months and older
Tues., Oct. 30*	10am to 3pm	Yale Health Center, 1st Floor	5 years and older
Fri., Nov. 2	10am to 2pm	West Campus, School of Nursing	5 years and older
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.

[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.

The Yale University Chemical and Biophysical Instrumentation Center, in conjunction with Rigaku Americas Corporation, is pleased to announce the **6th Rigaku Symposium** to take place on Friday, October 19, 2018 in the Chemistry Department at Yale University.

[Click here for more information.](#)

Please join us for a day of stimulating talks and networking. This event is free and open to the public but [pre-registration is required](#). Breakfast, lunch and an evening reception are included during the Symposium.

Science in the News Auditions

Want to improve your communication and presentation skills while exciting a broad public audience about new scientific findings? Audition to be a presenter in the ninth annual Science in the News series! Auditions (September 17-26) are simple and easy: just give a 5-minute presentation with slides about any scientific topic or concept that you're interested in and passionate about. You should prepare your talk so that it could be understood by high school students, with simple, clear, and interesting slides and plenty of scientific enthusiasm!

[Email Alex Engler with any questions or for more information.](#)

DATES:

Tuesday, September 25

Wednesday, September 26

Sterling Hall of Medicine or Sloane Physics Lab

[Sign Up via Google Sheets](#)