

Yale Department of Physics

Yale Physics Newsletter

October 20, 2017

News

The Physics Department is pleased to announce that this year we will hold the first annual Howard L. Schultz Undergraduate Prize Lecture. The prize will be funded by the generous donations from the friends, colleagues and students of former Yale Professor Howard L. Schultz (PhD, 1937). Paul Tipton, Chair of the Dept. states that “the current plan is to have the undergraduate student leaders of the Women in Physics (WIP) and Society of Physics Students (SPS) organizations lead the speaker selection process. The hope is that the speakers will spend the day with our undergraduates and deliver a lecture tailored to their interests and background.”

The inaugural Schultz Prize Lecture Organizational Committee is comprised of the leadership of SPS: Aaron Hillman '18, Sophia Sanchez-Maes '19, and Cady van Assendelft '19, and the leadership of WIP: Julia Wei '19, Katie Melbourne '19, Elizabeth Ruddy '20, Isabella Trierweiler '18, Heather Harrington '19 and Alexa Murray '19. DUS Simon Mochrie will provide faculty assistance to this group. The first lecture is being planned for 2018, spring semester.

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Please congratulate Nir Navon (Assistant Professor of Physics) on receiving a Packard Fellowship. Well done Nir!

The David and Lucile Packard Foundation is excited to announce the 2017 Packard Fellowships in Science and Engineering. Congratulations to Nir M. Navon from Yale University for being awarded one of these 18 Packard Fellowships! Each Fellow will receive a grant of \$875,000 over five years to pursue their research.

The Packard Fellowships are among the nation's largest nongovernmental fellowships, designed to allow maximum flexibility in how the funding is used. Packard Fellows have gone on to achieve significant accomplishments, receiving additional awards and honors that include the Nobel Prize in Physics, the Fields Medal, the Alan T. Waterman Award, MacArthur Fellowships, and elections to the National Academies. Their work has led to impressive research outcomes, including the development of the CRISPR-Cas9 gene-editing technique, sequencing the Ebola virus genome, the creation of Bose-Einstein condensates, and

Save the Date

November 11, 2017 – Girls' Science Investigations, Session #2 (The Floating World)

Seminars

Monday, October 23 Physics Club. Kyle Cranmer, NYU, “What does the Revolution in Artificial Intelligence Mean for Physics?”, Sloane Physics Lab, rm. 57 at 3:30pm. Host: Sarah Demers. Tea to follow the talk in the 3rd Floor Lounge.

Monday, October 23 Molecular Biology and Biophysics Seminar. Daniel Durocher, University of Toronto, “Charting the response to DNA damage”, HOPE 110 at 4:00pm. Tea before the talk at 3:45pm. Host Sandy Chang.

Tuesday, October 24 Yale Systems Biology Institute Seminar. Dennis Vitkup, Columbia University, “Receptor-Based Mechanism of Memory and Relative Sensing in Mammalian Signaling Networks”, West Campus Conference Center, Rm. 218 at 1:00pm. Lunch will be provided at 11:45am.

Tuesday, October 24 Special Condensed Matter Seminar. Arijeet Pal, Oxford University – “Title TBA”, Sloane Physics Lab rm. 52 at 2:00pm.

Tuesday, October 24 Center for Science & Social Science Information. New Spaces, New Vision Open House, Celebrate new spaces at the CSSSSI! 2pm-4pm.

Tuesday, October 24 Yale Center for Astronomy and Astrophysics Seminar. Sukyana Chakrabarti, Rochester Institute of Technology, “Outer HI Disks: Probes of dark matter sub-structure to LIGO sources”, Watson Center, A-51 at 2:30pm.

Tuesday, October 24 Particle Theory Seminar. Zohar Komargodski, Weizmann Institute and SCGP, “Dynamics of Quantum Chromodynamics in 3+1 and 2+1 Dimensions”, Sloane Physics Lab, rm. 52 at 4:00pm.

Wednesday, October 25 Department of Molecular, Cellular and Developmental Biology Seminar. Yigong Shi, China, “Structural Basis of pre-mRNA Splicing by the Spliceosome”, SCL 160 at 4:00pm. Tea at 3:45pm. Host: Prof. Anna Pyle.

Wednesday, October 25 Department of Geology & Geophysics Seminar. Jennifer Kay, University of Colorado Boulder, “Do Southern Ocean radiation biases and cloud feedbacks matter for 21st century warming?”, Kline Geology Lab, 123 at 4:00pm.

Wednesday, October 25 Department of Mathematics Colloquium. Melanie Wood, University of Wisconsin, “Random groups from generators and relations”, LOM 215 at 4:15pm.

Thursday, October 26 Department of Astronomy Colloquium. Fabio Pacucci, Yale University, “First black holes: observability and growth”, Watson Center, A-51 at 2:30pm.

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

Continued next page

Continued from page 1

pioneering research on glaciology and abrupt climate change. [Click here](#) for full story.

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Yoram Alhassid has been named the Frederick Phineas Rose Professor of Physics. Peter Salovey announced today that the Yale Corporation voted to appoint Yoram Alhassid as the Frederick Phineas Rose Professor of Physics.

Endowed chairs at Yale are awarded to those whose scholarship has brought distinction to the University. Yoram's outstanding research program is in nuclear physics and in many-body theory applied to a variety of other systems including cold atoms.

Frederick P. Rose was a 1944 graduate of Yale University, majoring in civil engineering. After serving in WWII he joined the real estate development firm started by his father and uncle. Noted for his philanthropy, Mr. Rose was an enthusiastic and generous alumnus who served on the Yale Corporation from 1989 to 1994 and received the Yale Medal for outstanding service to the University in 1991. He passed away in 1999.

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](#).

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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.

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Yale Health Center – Get your Flu shot!

[Flu Shot Information](#)

Flu clinics are available on a walk-in basis for Yale Health members, Yale University employees, and Yale University students. Children under 18 must be accompanied by a parent or guardian. No registration is necessary.

[Jobs](#)

Perimeter Institute for Theoretical Physics is inviting applications for a number of Junior Faculty positions (tenure track) in Condensed Matter Theory, Quantum Information Science and Theoretical Particle Physics. For more information please [visit our website](#).

We would be very grateful if you would circulate this information to outstanding young candidates who may be interested in this opportunity.

Perimeter Institute offers a dynamic, multi-disciplinary environment with maximum research freedom and opportunity to collaborate. We will begin to review the candidates for the CMT and QIS positions on December 15th, 2017 and for the TPP positions on January 15th, 2018. However, in all cases, applications will be considered until all positions are filled.

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Columbia University the Department of Physics seeks to appoint an assistant professor in the area of experimental atomic, molecular and optical physics, low-energy precision measurement or a related field starting on July 1, 2018. Review of applications and scheduling of interviews will begin on December 1, 2017 and will continue until the position is filled. [Click here](#) for a copy of the poster advertising this position.

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Lawrence Livermore National Laboratory High-Energy-Density Physics Program 2018 Summer Student Internships. Application deadline: February 1, 2018. [Click here](#) for poster.