

Yale Department of Physics

Yale Physics Newsletter

August 4, 2017

News

For Workday questions please contact the Finance Support Center (FSC) by phone at 203-432-5394 or by email at sharedservices@yale.edu.

Please check your Workday inbox for any actions needed for reports.

§

Read the latest answers to Workday@Yale community questions. This week's questions touch on historical payroll transactions, approvals, pcard transactions, journal entries, and per diem rates. [Read more](#).

§

Physics Department personal tips for Workday. If you are doing a personal expense in a report you MUST change the spend category to "Employee Personal Expense" and CHECK the personal box. You must also fill in the memo field for the personal charge. **Note! If the entire amount isn't a personal expense then follow the steps above after you do the itemizing.**

When you do a group meal in a report you must fill in the memo field with the purpose, benefit, etc. of the meal. If you are used to putting that information in the business purpose you must repeat it on the individual charge memo line.

Geriana has enlightened us with yet exposing another slight pot hole with doing ERs. If you are missing a receipt \$75 and over you need to fill out the missing receipt form ([attached](#)) and attach it to the ER.

§

Visit the Procurement training page to read answers to [Frequently Asked Questions about SciQuest](#).

Tips for Using SciQuest in Workday

- Create and apply a favorite "Deliver-To" location for PO requisitions: A new quick guides explains how to find a Yale location, save it as a favorite, and select it as your "Deliver-To" location on purchase order (PO) requisition lines. [Learn more](#)

- Check if a supplier has been set up previously in Workday: Run the Workday report "Find Suppliers by Cost Center - Yale" to see if the supplier exists. Workday will alert you if supplier names and TINs (taxpayer

identification numbers) already exist during the "Create Supplier Request" process. [Learn more](#)

- Order restricted items: Create a new requisition for each restricted item order you are placing, and do not add any other items to that order. Review [Policy 3220 Purchase of Restricted Items](#) for more information.

Functionality Updates

- Multiple approvals for supplier invoices and invoice requests: A known defect in Workday occurs when a supplier invoice or invoice request involves multiple cost centers, and the same person is the approver for those cost centers. An update will be posted shortly. In the interim, please approve the invoices multiple times.

- Shipping locations in purchase orders from SciQuest: Some POs converted from SciQuest into Workday show a generic "Ship-To" location (Central Receiving) that may cause users to worry that deliveries will be delayed or lost. Users are advised that suppliers are fulfilling these converted purchase orders according to the original purchase orders, which contain correct ship-to information; delivery of goods will not be affected. Note: If a user edits the generic address, suppliers will not receive the updated address. Users should only edit purchase orders to update charging information or add money to standing orders.

- Stay informed – Visit the [Functionality Updates page](#) on the Workday website for current issues and their statuses.

Featured Training Resources

- "Buying Goods Through SciQuest Using Workday" [summary](#)
- "Supplier Request Event" (formerly Vendor Setup) [video](#)
- "Create Supplier Invoice Request (Check Request)" [training guide](#) and [video](#)
- "Creating a Standing Purchase Order" [summary](#)

§

Congratulations to Anna Kashkanova on the successful defense of her thesis "Optomechanics with Superfluid Helium"! Her thesis advisor was Jack Harris.

§

Prof. Peter Schiffer will be joining Yale as the university's inaugural vice provost for research. He joins us from the University of Illinois, Urbana-Champaign. He will be joining the Yale faculty as professor of applied physics in October. [Click here](#) for full story.

§

We had many terrific entries in our 2017 Photo Contest. Congratulations to Chase Shimmin (First Place) and Hao Yan (Second & Third Place) our 2017 Photo Contest Winners! [Click here](#) for full story.

§

Jeremy Cushman won the first prize, and William Thompson was a runner-up for posters at TAUP 2017 Conference (Topics in Astroparticle and Underground Physics) <http://taup2017.snolab.ca>, one of the major conferences in our field. The prizes were given out by Art McDonald and Takaaki Kajita, the Nobel Laureates from 2015. [Click here](#) for full story.

§

Summer Research News posted on [Facebook](#):

Richard Casten (D. Allan Bromley Professor Emeritus of Physics) just spent two months in Santa Fe working on algebraic predictions of nuclear shapes and on a new method to estimate neutron capture cross sections of interest to astrophysics. During the trip he made a side trip to Stockholm to talk at a conference on nuclear structure.

Nir Navon (Assistant Professor of Physics) A brand-new advanced lab for undergraduates is now under construction in the Sterling Chemistry building. Undergraduates are working over the summer under the supervision of Prof. Nir Navon and Dr. Sid Cahn to assemble an ultra-high vacuum chamber and set up lasers for Doppler cooling and trapping of potassium atoms at nanokelvin temperatures. Summer is hot for some, ultracold for others!

(participating undergraduates are: Julia Wei, Will Eckner, Jeremy Tanlimco, George Iskander, Aurelian Loirette-Pelous and Chunny Ding)

KeVaughna Patrick (REU Sackler student) I currently live in Eastpointe, Michigan. That's about 20 mins from downtown Detroit. I am a rising junior and Biomedical Physics Major at Wayne State University. I was invited to Yale through the Sackler/ NSF REU program and have been working in Dr. Mochrie's Lab. This summer I edited, wrote and learned about coding, all of which were firsts for me. This was an amazing experience and I am truly grateful.

This summer I studied Chromatin Dynamics in Single Cells. Chromatin dynamics correspond to the motions of chromatin within the nucleus. These dynamics have been studied before; however, this project, once completed, will be the most precise assessment of chromatin diffusion in real time. Chromatin dynamics has been linked to gene expression and repression. Our methodology for assessing chromatin dynamics is to first acquire movies of fluorescently labeled lacO sites that have been incorporated at known positions into

the yeast genome, and then tracking their movement. LacO sites are introduced into yeast at desired positions. These LacO sites can be implemented anywhere into the genetic code. They are then detected when fluorescently labeled lac repressor protein (LacI) binds to them. The movements of each such locus is determined by a Matlab tracking code where the labeled chromatin locus is tracked frame-by-frame by recording its x and y coordinates in each frame of the movie. We then use a novel analysis code, called perturbation expectation maximization version 2 (pEMv2), to sort each track in the population of tracks into a different diffusive state. The diffusivity of chromatin loci corresponding to each state is then calculated by the number of pixels the loci moved from frame to frame. Thus far, we have found that the chromatin dynamics of yeast cells show 2 diffusive states, which exhibit fractional Brownian motion diffusion. Further measurements and analysis will establish whether the prevalence of each diffusive state depends on the locus location within the nucleus or what other factors are important.

§

The STAR Collaboration made the cover of Nature. [Click here](#) for the full article.

For more news 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](#).

§

Please [click here](#) for updates on the Yale Science Building, including information about the YSB Construction Phase Pedestrian Impact. 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.

§

Summer is almost over and I need items to keep our Facebook (<http://www.facebook.com/YalePhysicsDept>) page busy. Please send me a photo and brief statement of your summer research projects so that I can post them – it is exciting to see where everyone goes and what they are doing!

[Save the Date](#)

Fall term classes start Wednesday, August 30, 2017

[Seminars](#)

No seminars this week

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