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Physics Digest

News, info, and updates for Ph.D. students in Physics at UW–Madison

October 1st, 2021

Announcements

Memberships Available: UW-Madison APS Chapter

The [American Physical Society](#) (APS) has approved UW-Madison for an APS Chapter, which is a new program for graduate students and early career scientists (defined as having received their PhD within the past five years). There are no fees or responsibilities required to be a member of the chapter and the chapter can request speakers from the APS and will receive a small grant every 6 months. In addition, chapter members who are also APS members may have the opportunity to apply for certain travel grants. More information on the program can be found [here](#). The chapter will be holding officer elections beginning October 11th and you can sign up to be a member [here](#). For more information, contact [Luca Riitano](#).

2022-2023 FAFSA Is Available

As of October 1st, 2021, the Free Application for Federal Student Aid (FAFSA) for the 2022-2023 academic year is open. If you are interested in submitting a FAFSA application, the UW-Madison Office of Student Financial Aid is offering [advising services and individual assistance](#).

Flu Shots Available Through UHS

Starting September 13, University Health Services (UHS) will offer flu shots to all students and employees. Campus community members can significantly reduce their chance of becoming ill by getting vaccinated. Visit uhs.wisc.edu/flushots for dates, times, and locations throughout the fall semester.

Thesis Defenses

Instrumentation and Commissioning of the Prototype Schwarzschild-Couder Telescope Camera

Date: October 5th, 2021; 1 PM CT

Leslie Taylor, Physics PhD Graduate Student (Justin Vandenbroucke, Faculty Advisor) will defend their thesis.

Upcoming Events

Department of Physics Event Calendar

See the departmental events calendar to be sure you don't miss any of the upcoming seminars, workshops, or journal clubs!

Student Affairs: Campus Happenings

See the UW Student Affairs news website and scroll to the "current happenings" listing each week.

Exploring Practices in the Classroom: Navigating Challenges with Inclusive Teaching

Date: Thursdays at 1:20 PM - 3 PM CT

This is an interdepartmental TA learning community open to anyone TAing this fall, whether teaching for the first time or for the hundredth. A central goal of the course (which can be taken for optional credit) is to foster community for TAs while also developing the confidence to respond to conflict in the classroom and promote equity through their actions. This learning community meets on campus Thursdays, 1:20pm – 3:00pm, starting September 16. Click [here](#) for more details and to register.

B.O.V. Presentation: Entrepreneurship in the Physical Sciences

Date: October 7th, 2021; 12 PM CT

Academic physicists and the others in physical sciences have been important contributors for decades of ideas for commerce, including those resulting in new Wisconsin companies. Academic entrepreneurship enriches teaching, research, and is inherently service to the communities in which physics departments exist, the nation and even the world. Join speaker Thomas Rockwell Mackie, Emeritus Professor, University of Wisconsin-Madison and host Professor Kevin Black in 4274 Chamberlin Hall as they navigate the exciting world of entrepreneurship in the physical sciences in the 21st Century.

UW-Madison Three Minute Thesis Competition

Deadline: October 14th, 2021

The UW-Madison Graduate School will be hosting the 2021-2022 Three Minute Thesis Competition this Fall. Students in research-based master's and PhD programs from all disciplines are eligible to compete. The deadline to register for the competition is October 14, 2021 and you can click [here](#) to register and for more information.

The Science Coalition: Fund it Forward Video Challenge

Deadline: October 18th, 2021

UW-Madison undergraduate and graduate students are invited to submit 60-90 second videos highlighting their research and the importance of federal support for fundamental research. Participants will be evaluated based on their messaging and communication, creativity, and video and editing quality. First place winners will receive \$1,000, second place winners will receive \$750, and third place winners will receive \$500. Graduate and undergraduate submissions will be judged separately. The winner of the People's Choice Award, which is open to both graduates and undergraduates, will receive \$500. Click [here](#) for more information, click [here](#) for a social media guide, and click [here](#) for some sample tweets and Fund it Forward logos.

Professional Development

QED-C Student Research ePoster Sessions

The Quantum Economic Development Consortium hosts monthly Student Research ePoster Sessions in which students present on their research in quantum computing to a diverse audience of researchers, employers, students, and QED-C community members. Presentations last 10 minutes followed by a 5-minute Q&A session. This is a fantastic opportunity to expand on your presentation skills and to display your prowess in the field of quantum computing. If you are interested in participating, contact [Jackson Kennedy](#).

NSF Graduate Research Fellowship Program Application Workshop Series

Date: Tuesdays September 14th-October 5th, 2021; 3-5 PM CT

The Graduate School is excited to offer a workshop series for incoming and second year graduate and senior undergraduate students in STEM or STEM Education interested in applying for an NSF GRFP fellowship. It is recommended that students register for all events in the series. Click [here](#) for more information and to register.

Quantum Employer Spotlight with Protiviti

Date: October 5th, 2021; 11:30 PM CT

Join the Chicago Quantum Exchange (CQE) for a webinar highlighting Protiviti, an employer in the quantum information industry. Click [here](#) to register.

Fellowship Application Writing Workshop

Date: October 7th, 2021

The Graduate School is excited to offer a workshop series for graduate students focused on applying for fellowships from external agencies and foundations. In this workshop series, you will learn the basics of grant applications, what funders look for, and how to write a compelling application. Even if you are not ready to apply to a fellowship at this point, this series can be a great professional development tool. Click [here](#) for more details and register.

Delta Program: Bring an Inclusive Mindset to Your Teaching

Date: October 8th, 2021; 10 AM - 11:30 AM

Learn about inclusive teaching approaches that build upon inclusive design frameworks, case studies, and educational research in this one-session workshop. As an introduction to inclusive teaching techniques, Professors Kelly Hogan and Viji Sathy of the University of North Carolina will ask participants to reflect on inequities and diversity in their classrooms through interactive activities. After providing a framework for inclusive design and their own research results, Hogan and Sathy will lead participants through active learning exercises and case studies that explore inclusive techniques. Click [here](#) for more information and to register.

Delta Program: LinkedIn For Academics

Date: October 9th, 2021; 11 AM - 12:30 PM

You have a LinkedIn account and the basics set up; now what? Wait for people to find you? No. "Networking" is an active process that takes time and planning. Click [here](#) for more information and to register.

Delta Program: A Faculty Panel on Strategies & Practices For Antiracist Classrooms

Date: October 11th, 2021; 11 AM - 12 PM

Join The Delta Program for a multidisciplinary panel discussion of faculty who have incorporated various antiracist approaches into their teaching at IUPUI. We'll hear from Dr. Marilee Brooks-Gillies, an Assistant Professor of English who has developed antiracist writing and assessment practices; Dr. Jamie Levine Daniel, an Associate Professor in the O'Neill School of Public and Environmental Affairs and a specialist on anti-semitism in higher education; Dr. Ronda Henry Anthony, an Associate Professor of English and Africana Studies who has led several IUPUI initiatives on antiracism; and Dr. Michin Hong, an Associate Professor of Social Work with a research focus on anti-Asian racism and IUPUI's Asian American student community. Click [here](#) for more information and to register.

Quantum Investment Summit

Date: October 12th - 13th, 2021

Growing a vibrant quantum ecosystem and effectively commercializing innovative research requires making the right connections. The [Quantum Startup Foundry](#) presents the first annual Quantum Investment Summit bringing together top quantum private investors, thought leaders, experts and executives from the most innovative corporations, startups, academic institutions and government entities with two goals: (1) Increase startups' access to financial and talent resources; (2) Develop a broader, globally-connected ecosystem to support and accelerate the advancement and commercialization of innovative quantum technologies.

Register [here](#) to join virtually or in-person!

Delta Program: Teaching for Well-Being Practices

October 20th, 2021; 10 AM - 11:30 AM

his introductory workshop to health-promoting pedagogies will present strategies to support both student learning and well-being by cultivating a welcoming, trusting, and empowering learning environment. Join us to explore evidence-based health-promoting practices and to consult with others and workshop applying these strategies in courses you teach (or anticipate teaching). Click [here](#) for more information and to register.

Delta Program: Understanding Levers of Change in Academia

Date: November 10th and November 24th, 2021

Enacting change in big, complex institutions is a daunting task — especially for grad students, postdocs, and early career faculty — and knowing the levers of power on your own campus is an essential first step. In this two-part workshop, participants will do a deep dive into the structural aspects of change (regimented processes, deadlines, and rules) and the social components of power in higher education (key stakeholders, institutional culture, and unspoken norms). Click [here](#) for more information and to register.

Employment and Funding Opportunities

STEM Public Service Fellows

Deadline: October 20th, 2021

The Public Service Fellows program is a three-semester professional development sequence for graduate students in STEM. It culminates in a mentored practicum with a campus, community, or governmental organization. There will be a virtual drop-in information session on [October 12th from 11:30 AM -12:30 PM](#). Click [here](#) to learn more about the program and click [here](#) to apply.

Princeton University: Robert Dicke Fellowships Postdoctoral Positions

Deadline: October 22nd, 2021

The Princeton University Physics Department seeks exceptional recent Ph.D. recipients in experimental physics for an honorific postdoctoral fellowship program. Candidates from all areas of experimental physics will be considered and selected through an annual competition. The selected scholars are expected to work with the existing experimental groups in the department, although those who wish to pursue a specific independent research program will also be considered. Princeton has experimental research programs in Atomic Physics, Biophysics, Condensed Matter Physics, Cosmology & Gravitation, High Energy Physics, and Particle Astrophysics. In their application, applicants are encouraged to discuss potential research group or groups that they would be interested in working with. This year the Physics Department will select two postdoctoral research scholars with annual appointments including salary, benefits, and \$9,000 in discretionary funds. For more information and to apply, click [here](#).

Rockefeller University: Postdoctoral Positions

Deadline: November 15th, 2021

The Center for Studies in Physics and Biology at The Rockefeller University expects to have a small number of postdoctoral fellowships available for appointments in September 2022. They are seeking theoretical physicists, mathematicians and computer scientists with a demonstrable interest in the interface between their discipline and biology. Click [here](#) for more information.

Army Research Laboratory QST: Staff Scientists and Postdoctoral Fellows

The Quantum Science and Technology Branch (QST) in the Army Research Laboratory has multiple openings for staff scientists and post-doctoral fellows. The openings include efforts in quantum sensing, timing, quantum memories, and entanglement distribution. We are leveraging multiple platforms to enhance light-matter interactions, which will enable us to explore fundamental physics and develop practical quantum technologies. Efforts include developing near-term quantum sensors as well as practical quantum-enhanced metrology/distributed-entanglement gains for future Army systems. QST has a close collaboration with the Quantum Technology Center at the University of Maryland (QTC) including shared lab space and projects. Click [here](#) for more information and to apply.

Honeywell: Advanced R&D Engineer/Scientist

Honeywell is hiring an Advanced R&D Engineer/Scientist whose main duties will be to develop new concepts, write proposals, and create and test hardware prototypes and to transform customer requirements into innovative prototypes based on creative design and rigorous analysis. Click [here](#) for more information and to apply.

IBM: Summer 2022 Internships

IBM has begun the application process for their 2022 summer internships and early-career opportunities. Click [here](#) for more details and to apply.

UCLA: QuBiT Lab Postdoctoral Position

The Quantum Biology Tech (QuBiT) Lab at UCLA, is searching for postdoctoral candidates with quantum optics/spin physics experience. The QuBiT Lab's mission is to establish the extent to which quantum mechanics accounts for biologically relevant phenomena, and can be manipulated to technological and therapeutic advantage. For more information, click [here](#) and contact [Clarice Aiello](#) to apply.

ENS Paris: PhD Scholarship and Postdoctoral Position

The Kastler-Brossel Laboratory at ENS Paris is hiring a two-year postdoctoral position and is offering a three-year scholarship working with Ultracold 1D Fermi Gases. Click [here](#) for more information and to apply.

Useful Links

[Dates and Deadlines from the Office of the Registrar](#)

[Warrant Request Form](#)

[Graduate School Degree Deadlines](#)

Connect with us!



[Department of Physics](#)

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This newsletter is for Ph.D. students in Physics at UW–Madison; we update the mailing list at the start of each semester. Please contact phddigest@physics.wisc.edu with any questions.