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MSPQC Newsletter

News, info and updates for MSPQC students 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.

Professional Development & Events

QED-C Student Research ePoster Sessions

The Quantum Economic Development Consortium (QED-C) 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](#).

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.

D-Wave's Qubits Worldwide Users Conference

Date: October 5th - 7th, 2021

Qubits is an excellent opportunity to connect with other innovators involved in quantum computing! The event will feature speakers presenting their latest work on quantum applications in manufacturing and logistics, financial services, biotech and pharma, energy, materials science, machine learning, and much more. It will also host educational sessions and tutorials for developers with all levels of quantum experience, from those who are new to quantum to those with advanced knowledge. Finally, D-Wave speakers will discuss the company's quantum roadmap and the latest development tools. Register [here!](#)

International Symposium on Correlated Electrons

Date: October 5th - 7th, 2021

The 2021 International Symposium on Correlated Electrons (SymCorrel21) will take place online. This international and interdisciplinary symposium brings together experts from the different subfields of the quantum sciences to elaborate on systematic theoretical and computational approaches to interacting many-electron quantum systems in quantum many-body physics, particularly quantum chemistry. The more concise quantum information theoretical perspective on quantum correlations will play a central role in that context. Click [here](#) for more information 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.

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.

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!

Employment Opportunities

MSPQC Career Toolkit

MSPQC Program Coordinator Jackson Kennedy manages and updates the [MSPQC Career Toolkit](#). This is the central hub for professional development and job search opportunities for MSPQC students and is updated frequently. Contact [Jackson Kennedy](#) with questions, concerns, and suggestions.

QED-C Student Database

[QED-C](#) Maintains a database of students obtaining degrees in quantum computing. This database is shared with employers, internship providers, and consortium partners. To add yourself to this database, complete the [Student Info Form](#) (password: Students@QED-C) and use Jackson Kennedy (jckennedy3@wisc.edu) as your advisor email.

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.

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.

Aliro: Research Engineer, Quantum Networks & Communications

Aliro is hiring a Research Engineer, Quantum Networks & Communications who is passionate about doing pioneering work and building new software in this emerging branch of the quantum revolution. In this position, the incumbent will not only develop new techniques, but will also implement them in Aliro's stack and product offerings. The incumbent will also work closely with the rest of the research team in developing new ideas and clever approaches to some of the hardest problems facing quantum networking and computing today.

ColdQuanta: Various Openings

ColdQuanta, the leader in cold-atom quantum technology, is on a quest to find scientists, physicists, and engineers to support research, development, engineering, and production of cold-atom technology. They are also seeking product and project managers, marketing, technical sales and business development professionals, developers, and corporate staff. ColdQuanta is tackling some of the hardest problems in

fundamental science and engineering and benefits from having a diverse team. Please feel free to send referrals with resumes for open roles to coldquanta@jobs.workablemail.com.

Useful Links

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

[MSPQC Career Toolkit](#)

[MSPQC Handbook](#)

[Professional Development from the Graduate School](#)

Connect with us!



[Department of Physics](#)

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This newsletter is for MSPQC students at UW–Madison; we update the mailing list at the start of each semester. Please contact [Jackson Kennedy](#) with any questions.