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MSPQC Newsletter

News, info and updates for MSPQC students at UW-Madison

November 5th, 2021

Announcements

New Graduate Coordinator

Sharon Kahn will start as the Graduate Coordinator in the Department of Physics on Monday, November 8th, 2021. Sharon comes to the department most recently from the Neuroscience Training Program in SMPH. Sharon's office is 2320F Chamberlin Hall and her email is sharon.kahn@wisc.edu. Additionally, Jackson Kennedy will be leaving the Department of Physics to work in the Wisconsin School of Business. His last day will be November 23rd, 2021.

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](#).

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](#).

[Zurich Instruments: Quantum Material Characterization for Streamlined Qubit Development](#)

Date: November 11th, 2021; 11 AM

Qubits are the main building blocks of quantum devices: improving their performance at every stage of development is thus crucial. A qubit's properties such as its coherence time are directly affected by their architecture and design as well as by the materials chosen. Building a qubit to test each possible variable adds an unnecessary overhead to the characterization effort: this is why it is desirable to develop fast and efficient benchmarks at earlier stages in the process. In this webinar, application scientists Ed, Clemens, Jim and Jelena will demonstrate how lock-in amplifiers operating at frequencies well below the qubits themselves offer a prime way to probe and understand material properties relevant for qubit coherence while keeping measurement times and complexity to a minimum. Click [here](#) to register.

A Life Unimagined with Aaron Williams

Date: November 15th, 2021; 6 - 7 PM

UW-Madison alumnus Aaron Williams, MBA '73, will deliver the keynote lecture for International Education Week. During the event, Williams will share formative experiences from his youth and defining accomplishments throughout his career, providing inspiration for the next generation who seek to lead on the world stage. He will also read excerpts from his newly released memoir, "A Life Unimagined: The Rewards of Mission-Driven Service in the Peace Corps and Beyond." Click [here](#) to learn more and to register.

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 (jkennedy3@wisc.edu) as your advisor email.

Q-Next Opportunities

Q-Next maintains a comprehensive list of opportunities in the quantum industry. Click [here](#) to view this list, which is updated regularly.

Chicago Quantum Exchange: Summer 2022 Internships

The following Chicago Quantum Exchange (CQE) members and partners are soliciting applications for summer 2022 interns: Argonne National Laboratory, Boeing, Corning, CQE: Open Quantum Initiative Undergraduate Fellowship, IBM, Protiviti, & Super.tech. Click [here](#) for further detail on each internship. The [CQE website](#) is also kept up to date with the latest internship announcements.

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](#)

1150 University Avenue, Madison, WI 53706

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.