



ICAM Newsletter. November 2021

Welcome to the ICAM November Newsletter. Please share our news with your colleagues across your institution.

As we move towards 2022, in-person science is gearing up again. Though the pandemic has taught us that science can go on in remote mode, we all know in our hearts that face-to-face science is preferable in so many ways. All in all it is an optimistic time, and ICAM is ready to assist its members in re-starting in-person science, whether it is through new research exchanges, support for schools or workshops.

We are holding our first in-person annual meeting in January, and we hope that many of you will be able to make the journey to Davis for this event.

Please find below a summary of our ongoing activities at ICAM.

Sincerely,
Piers and Rajiv
ICAM Co-Directors

Upcoming ICAM Week of Science. 9th-14th Jan 2022. UC Davis

Please save the date. To kick-start our activities for 2022, we are hosting an [ICAM Week of Science](https://icam.physics.ucdavis.edu/) (<https://icam.physics.ucdavis.edu/>) in person at UC Davis, 9th-14th January. The first half of this meeting will bring us together for the ICAM Annual General Meeting (discussing future directions for ICAM, plus the SSC discussion of workshops and schools) and will involve the ICAM Science Steering Committee business meetings, plus a series of plenary sessions on Emergence across the spectrum of quantum, soft, biological and energy research. Following tradition, the ICAM meeting will end with a workshop, which this year focusses on Topological Perspectives on Superconductors and Quantum Magnets.

We should like to take this occasion to encourage all of our branches to send a representative to the science steering committee at the Davis meeting. We also have a limited number of travel awards available for junior participants at the meeting and we plan to have events for junior scientists to tell us about their recent research.

Although this meeting will be run in hybrid mode to accommodate those who are unable to travel, we really wish to encourage all members to try to make the journey. ICAM will support the travel and accommodation of one member of the SSC per ICAM node or consortium.

QuantEmX

This Fall, QuantEmX science exchanges started to roll into action, with new experimental exchanges taking place to the National High Magnetic Field Laboratory and Los Alamos. We expect that 2022 will be a bumper year for science exchanges. ICAM would like to reach out, particularly to the younger scientists across our network to encourage them to participate in the QuantEmX science exchanges, for which we have extensive support.

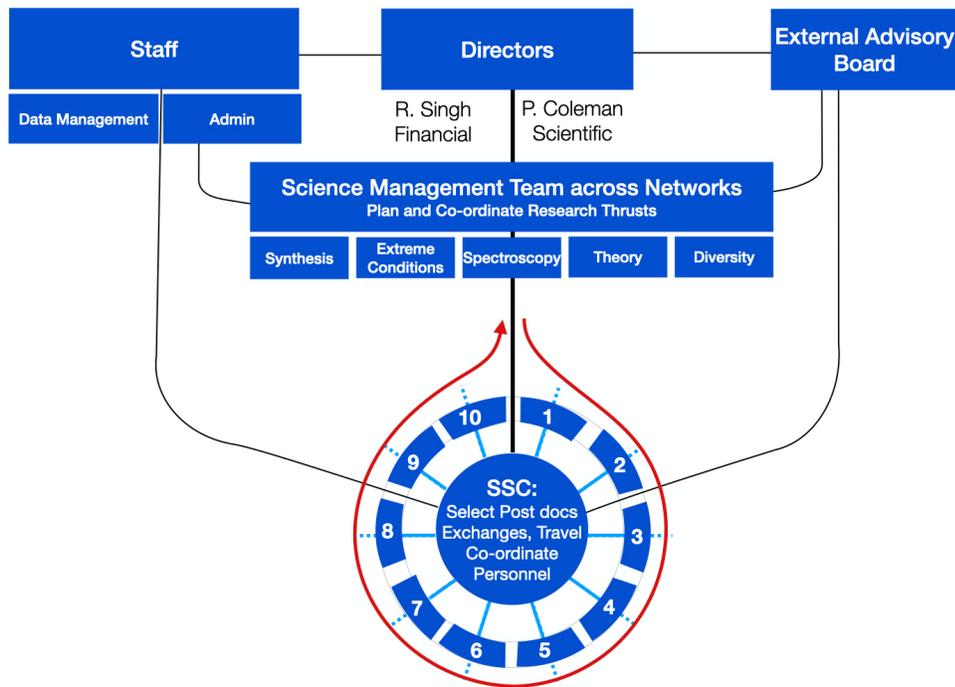
Applications for QuantEmX can be made at:

<https://www.icam-i2cam.org/quantemx>

The current application window is open until Jan 31st for travel starting in March 2022.

AccelNet Proposal

ICAM has re-submitted our network grant “AccelNet for Quantum Materials” to the Office of International Science at the National Science Foundation, following useful feedback from the first round of reviewers. If the grant is successful, it will link ICAM and nine other research networks into a “network of networks” with the goal of searching for new families of quantum materials and starting a new database for quantum materials that will include both successes and failures, to help avoid un-necessary repetition of experiments. We will keep you informed as to the progress of this proposal.



In person Workshops beginning November 2021.

[ICAM workshops \(https://www.icam-i2cam.org/our-workshops\)](https://www.icam-i2cam.org/our-workshops) have started to resume in person. “Topological Materials and Electron Correlations” (Rice University, Nov 15th) is our first in-person ICAM meeting since the start of the pandemic. In January 2022, there are three ICAM events taking place in person: the ICAM week of science (Davis, 9-14 Jan, 2022) , “Fundamentals of Quantum Materials 2022: New and Unusual Magnetic States” (Maryland, 17-21 Jan, 2022) and “New Directions in Strong Correlation Physics: Strange Metals to Topological Superconductivity” (Aspen, 23-28 Jan, 2022). This is, we hope the start of a very active workshop season going into 2022.

We should like to encourage the ICAM community to submit applications for new workshops in 2022. The current call for workshops has been extended until Dec 31st, to enable the next review of workshops to take place at the ICAM week of Science in January 2022.

ICAM Launches a Colloquium Introductions Library

ICAM is launching an online colloquium library, with the goal of providing materials that will help our field convey the shared excitement of the emergent physics frontier, be it in soft, biological or quantum matter. Our goal here is to provide a resource of introductory slides that can be used for the initial introduction of colloquium talks. We hope to launch the website in the coming month, and would like to encourage our members to think of collections of slides that they would be willing to contribute. All material will acknowledge the original authors.