



CONFERENCE **ON SCIENCE**
AT THE

SANFORD UNDERGROUND RESEARCH FACILITY

South Dakota Mines campus, May 14-16, 2024

The South Dakota School of Mines & Technology will host the fifth Conference on Science at the Sanford Underground Research Facility to address scientific research related to the laboratory in nearby Lead, SD. Scientists from around the world are conducting the LUX-ZEPLIN (LZ) dark matter search, the MAJORANA DEMONSTRATOR project, CASPAR, the DEMO-FTES & CUSSP geothermal experiments, as well as other experiments in geology, astrophysics, biology, and engineering. Cavern excavation for the Long-Baseline Neutrino Facility is now complete, and the onsite work on the Deep Underground Neutrino Experiment (DUNE) has just started.

Scientific areas of discussion include Neutrino Oscillations, Proton Decay, Nuclear Astrophysics, Dark Matter, Neutrinoless Double Beta Decay, Materials Science for Nuclear and Particle Physics, Geology, and Astrobiology and Life in Extreme Environments.

The conference is supported by the National Science Foundation.



Maps of Conference Venue

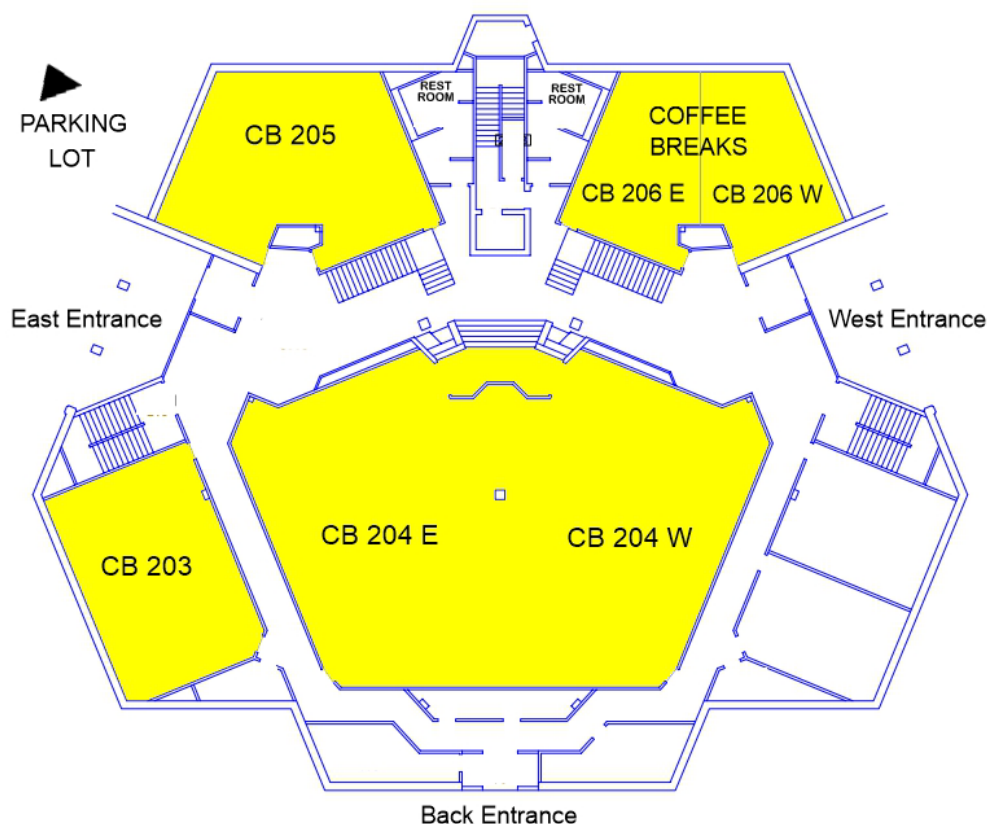


Campus Parking

Parking on campus of the South Dakota School of Mines and Technology is free during the summer break, but do not park in areas marked as construction sites.

Special Event signs will guide you from St. Joseph Street to the central university parking lot in front of McLaury Building and Surbeck Center. Additional parking is available at the Stadium. Please review the campus map for the closest parking lot to the conference site.

South Dakota Mines Building (Main Floor)



Local Transport

Transport between the Rushmore Hotel and the Conference Site in the morning and the afternoon of each day will be organized by Stagecoach Charter Bus Service from Tuesday to Thursday. The Bus has South Dakota Mines written on the side.

There will be two shuttle trips departing from the Rushmore Hotel to SD Mines Surbeck Center Parking Lot

- (1) at 7:40 AM from Rushmore – drop off at SD Mines 7:50 AM
- (2) at 8:00 AM from Rushmore – drop off at SD Mines 8:10 AM

Shuttles to return from the SD Mines campus to the Rushmore Hotel:

- (1) at 6:05 PM from SD Mines EEP – drop off at Rushmore Hotel 6:15 PM
- (2) at 6:25 PM from SD Mines EEP – drop off at Rushmore Hotel 6:45 PM

Social Program

Monday, May 13th: Registration reception

A reception will be held at the Rushmore Hotel from 5:00 to 8:00 PM. Take care of your registration early while meeting fellow participants in the conference and enjoying cookies and refreshments (sodas, coffee, tea). Alcoholic beverages can be purchased and carried over from the hotel's bar.

Wednesday, May 15th: Banquet (\$65.00/person + cash bar)

A banquet will be held at the Rushmore Hotel from 6:30 to 9:00 PM. Food will be served at 7:15 PM as a buffet with choice of grilled salmon or steak, various vegetables, starches, salad, and desserts.

Friday, May 17th: Underground Tour of SURF

SURF tours are very popular, and advanced confirmed registration is required. The tours will depart from the Rushmore hotel or SD Mines (TBC) at 9:00 am and return at about 5:00 pm.

Presentation and Presentation Format

Presentations can be projected in format 4:3 and 16:9. However, for best results a slide format of 16:9 is preferable.

Please upload your presentation to the computer in the lecture hall prior to the start of your session or at least a day in advance to your indico account. Since a low number of speakers in connected via Zoom, the use of personal notebooks for presentations is strongly discouraged. To upload, log in, then click "My contributions" on the left-hand menu, click "Edit" by the title of your contribution, then select the "Material" tab and click "Add Material." Click on "My Contributions". (If "My Contributions" does not appear under "My Conference", the abstract may have been submitted by another INDICO user. Please contact the original submitter to upload your materials). If you have any trouble uploading your presentation, please ask the registration desk for help before your session or send an email to jingbo.wang@sdsmt.edu.

Poster Session Awards

These awards are given to the three best posters presented at the conference. It rewards a combination of excellent research, innovation, and presentation. A panel of judges will select the best contribution among the submitted and presented posters. The winners will be recognized publicly at the first plenary session on Thursday morning and will receive a certificate and monetary award.

1st prize: \$300

2nd prize: \$200

3rd prize: \$100

WiFi

Wireless guest users at SD Mines may connect to **sdsmtopn**. This broadcast network requires no encryption or key. For some computers, users may have to perform a 'repair' on their wireless network card after setup before their machine will connect. Guests may see several other wireless networks being broadcast, but sdsmtopn is the only open network. Additionally, conference participants also have the option to use the secured **eduroam** network through their home institution access.

Code of Conduct

It is the policy of the conference organizers that all participants, including attendees, vendors, university staff, volunteers, and all other stakeholders at the Conference of Science at the Sanford Underground Research Facility will conduct themselves in a professional manner that is welcoming to all participants and free from any form of discrimination, harassment, or retaliation. Participants will treat each other with respect and consideration to create a collegial, inclusive, and professional environment. Creating a supportive environment to enable scientific discourse at the conference is the responsibility of all participants.

Participants will avoid any inappropriate actions or statements based on individual characteristics such as age, race, ethnicity, sexual orientation, gender identity, gender expression, marital status, nationality, political affiliation, ability status, educational background, or any other characteristic protected by law. Disruptive or harassing behavior of any kind will not be tolerated. Harassment includes but is not limited to inappropriate or intimidating behavior and language, unwelcome jokes or comments, unwanted touching or attention, offensive images, photography without permission, and stalking.

Violations of this code of conduct policy should be reported to the conference organizers. Sanctions may range from verbal warning to ejection from the meeting without refund, to notifying appropriate authorities. Retaliation for complaints of inappropriate conduct will not be tolerated. If participants observe inappropriate comments or actions and personal intervention seems appropriate and safe, they should be considerate of all parties before intervening.