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User Resources at FRIB

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Manager for User Relations



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Outline

- Code of Conduct
- FRIB User sign up
- FRIB Users Organization
- FRIB User Portal
- Program Advisory Committee (PAC) process
- Requirements for Spokespersons and Users
- On-site amenities
- Communication with Users
- Summary



FRIB/NSCL Code of Conduct

- Users, visitors, students and employees at the FRIB Laboratory share a common interest—to contribute to society through scientific discovery. This venture is best conducted when everyone behaves in a welcoming and respectful manner. Creating a collegial, inclusive, safe and supportive environment is everyone's responsibility
- Harassment and discrimination are prohibited and the FRIB Laboratory is committed to providing an environment that is welcoming for everyone. Anyone who witnesses a breach of this code of conduct is strongly encouraged to notify a member of Laboratory management or the FRIB diversity advisory committee, or to [submit an employee & student concern using the online form](#)
- Other relevant policies can be found at
 - [MSU Notice of Nondiscrimination, Anti-Harassment and Non-Retaliation](#)
 - [MSU Anti-Discrimination Policy](#)
 - [MSU Policy on Relationship Violence and Sexual Misconduct](#)
 - [NSF Sexual Harassment Policy](#)
 - [DOE Harassment Policy](#)



FRIB Manager for User Relations Role

- FRIB Manager for User Relations is here to help scientific users succeed at FRIB
- Main point of contact for FRIB Users (ask me anything, at any time)
- Supports users in proposing, scheduling, and running experiments
 - PAC process
 - Scheduling of experiments
 - Communication with users during preparation period before an experiment, and during the experiment
- Manages the FRIB User program
 - In collaboration with community, supports annual Low-Energy Community Meeting
 - Collect and analyze data on user program, including DOE-SC user and publication statistics
 - Track user satisfaction and solicit input on Laboratory improvement
 - Point of contact for FRIB Users Organization Executive Committee



FRIB User Portal

- The NEW FRIB User Portal will serve as a central web interface to facilitate individuals with their interactions with the Laboratory
- User Portal is under development and Phase 1 currently being tested
 - If you are already a member of the FRIBUO, some of your information may have already been migrated to the User Portal.
 - If you are not already a member, we encourage you to join
- Within the User Portal, users have the option of signing up to be a member of the FRIB Users organization and managing their membership
- Benefits of being a member of the FRIBUO
 - First to receive information on the FRIB Project, Calls for Proposals, FRIB Working Groups, conferences/workshops/summer schools within the community, and much more
 - Submitting a proposal or coming to the facility will be easier, as some of your profile information will be auto-populated within the User Portal
 - Meetings and events hosted by the FRIBUO allow facilitate connections with others in the community



FRIB Users Organization Charter

- The FRIB Users' Organization is a group, independent from FRIB, whose members are interested in the Facility for Rare Isotope Beams (FRIB) for the purpose of conducting scientific research and developing new technology. The FRIBUO purposes are
 - To work towards the realization and timely construction of FRIB and the development of its instrumentation and physics program;
 - To act as an advocate for the needs of the FRIB user community during construction;
 - To articulate and promote the scientific case for rare-isotope science and its significance to society;
 - To act as an advocate for the field of rare-isotope science in the U.S.A. in order to maximize its scientific potential.
- Executive Committee is in the process of updating their charter for FRIB Operations phase rather than construction



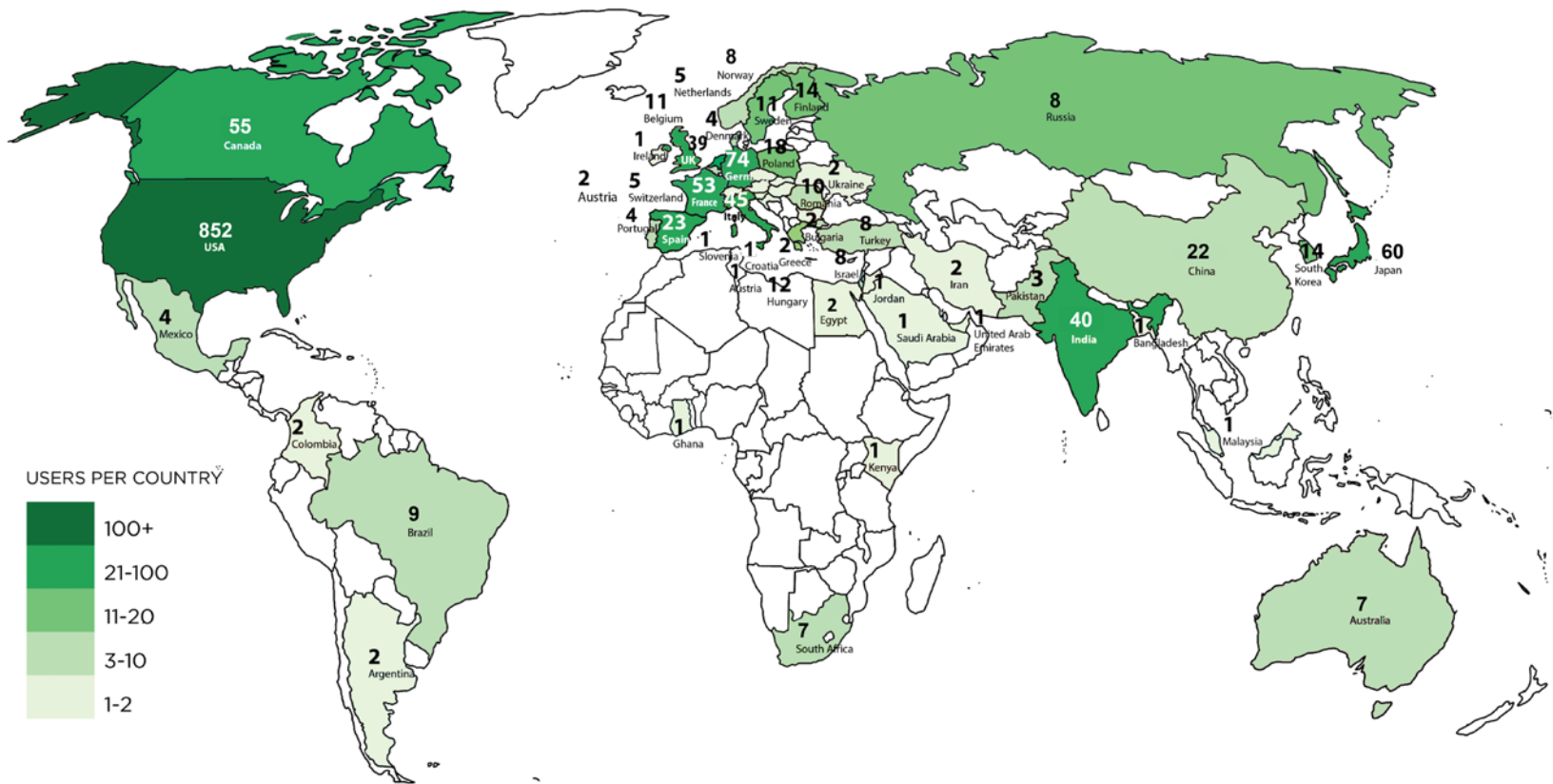
FRIB Users Organization Executive Committee

- **Current Executive Committee**
 - Melina Avila (Argonne National Laboratory)
 - Daniel Bardayan (University of Notre Dame)
 - Kelly Chipps (Oak Ridge National Laboratory)
 - Heather Crawford (Lawrence Berkeley National Laboratory) **[Chair]**
 - Romauldo deSouza (Indiana University)
 - Zach Meisel (Ohio University)
 - Andrew Rogers (University of Massachusetts Lowell)
 - Alexander Volya (Florida State University)
 - Steve Yates (University of Kentucky)
- **Users are welcome to contact any member of the Executive Committee with concerns or by writing an anonymous comment on the website**
 - <https://fribusers.org/comments.html>



FRIB Users Organization Members

1481 members – 185 US institutions (120 US Colleges and Universities)
38 States – 53 Countries – 234 International Institutions
13 National Laboratories – 19 Working Groups [as of 23 April 2020]



FRIB User Portal

- Inside the User Portal, the user can
 - Join an FRIB Users Organization Working Group
 - Manage their current Working Group memberships
 - Set and update their email preferences from the facility
 - Submit a proposal (during an open Call for Proposals)
 - Join an experiment (requires spokesperson approval)
 - Arrange for on-site access, including training and paperwork
 - Request remote access
 - Manage all of the tasks associated with being the spokesperson of an experiment
 - View all of the experiments the user is part of
 - View and enter publications associated with user experiments
- Note: It is not required that the user become a member of the FRIBUO
- Please note: the User Portal will be rolled out in phases, so not all features will be accessible at once



User Portal – FRIBUO Membership (Optional)

The screenshot shows a web browser window with the URL <https://enterprise.frib.msu.edu/Homepage/Content/825>. The page title is "FRIB Scientific User Portal". The user is logged in as "Steve Sneed".

The main content area is titled "Profile – FRIBUO Membership". It contains the following sections:

- Information**

The FRIB Users' Organization is a group whose members are interested in the Facility for Rare Isotope Beams (FRIB) for the purpose of conducting scientific research and developing new technology. The purposes of this association are:

 - To work towards the realization and timely construction of FRIB and the development of its instrumentation and physics program;
 - To act as an advocate for the needs of the FRIB user community during project construction;
 - To articulate and promote the scientific case for rare-isotope science and its significance to society;
 - To act as an advocate for the field of rare-isotope science in the U.S.A. in order to maximize its scientific potential.
- Are you interested in joining the FRIB Users Organization to stay up to date with the FRIB project and FRIBUO activities?**
 - Yes, I would like to join the FRIB Users Organization.
- Please select the email subscription options that you are interested in:**

| Subscriptions | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | FRIB Related Information |
| <input type="checkbox"/> | Conference, Workshop, and Summer School Announcements |
| <input type="checkbox"/> | Faculty and Permanent Staff Job Announcements |
| <input type="checkbox"/> | Postdoc Job Announcements |

Buttons: Cancel, Submit

Footer: Contact information | Privacy statement | Site accessibility | Code of conduct

Logos: MICHIGAN STATE UNIVERSITY, U.S. DEPARTMENT OF ENERGY Office of Science



User Portal – FRIBUO Working Groups

The screenshot shows a web browser window with the URL <https://enterprise.frib.msu.edu/Homepage/Content/825>. The page title is "FRIB Scientific User Portal" and the user is logged in as "Steve Sneed".

FRIB User Portal
Profile

Profile Process

1. Basic Information
2. Professional Information
3. FRIBUO Membership
4. FRIBUO Working Groups

Profile – FRIBUO Working Groups

Please select the FRIBUO working groups you are a member of or are interested in joining below:

| Working Group | Link to FRIBUO Website |
|---|--|
| <input type="checkbox"/> Astrophysics and SECAR | Link to FRIBUO Website |
| <input type="checkbox"/> Data Acquisition | Link to FRIBUO Website |
| <input type="checkbox"/> Detectors for Equation of State Physics | Link to FRIBUO Website |
| <input type="checkbox"/> Gas Jets | Link to FRIBUO Website |
| <input type="checkbox"/> High Resolution In-beam Gamma Spectroscopy | Link to FRIBUO Website |
| <input type="checkbox"/> HRS: High Rigidity Spectrometer | Link to FRIBUO Website |
| <input type="checkbox"/> Ion Traps | Link to FRIBUO Website |
| <input type="checkbox"/> ISLA: RaA12 Recoil Separator | Link to FRIBUO Website |
| <input type="checkbox"/> Isotopes and Applications | Link to FRIBUO Website |
| <input type="checkbox"/> Laser Spectroscopy and Neutral Atom Traps | Link to FRIBUO Website |
| <input type="checkbox"/> Nuclear Data | Link to FRIBUO Website |
| <input type="checkbox"/> Neutron Detection | Link to FRIBUO Website |
| <input type="checkbox"/> Radioactive Decay Station | Link to FRIBUO Website |
| <input type="checkbox"/> Scintillator Arrays | Link to FRIBUO Website |
| <input type="checkbox"/> Silicon Arrays | Link to FRIBUO Website |
| <input type="checkbox"/> Solenoid Detectors | Link to FRIBUO Website |
| <input type="checkbox"/> Target Laboratory | Link to FRIBUO Website |
| <input type="checkbox"/> Time Projection Chambers | Link to FRIBUO Website |

Cancel Submit

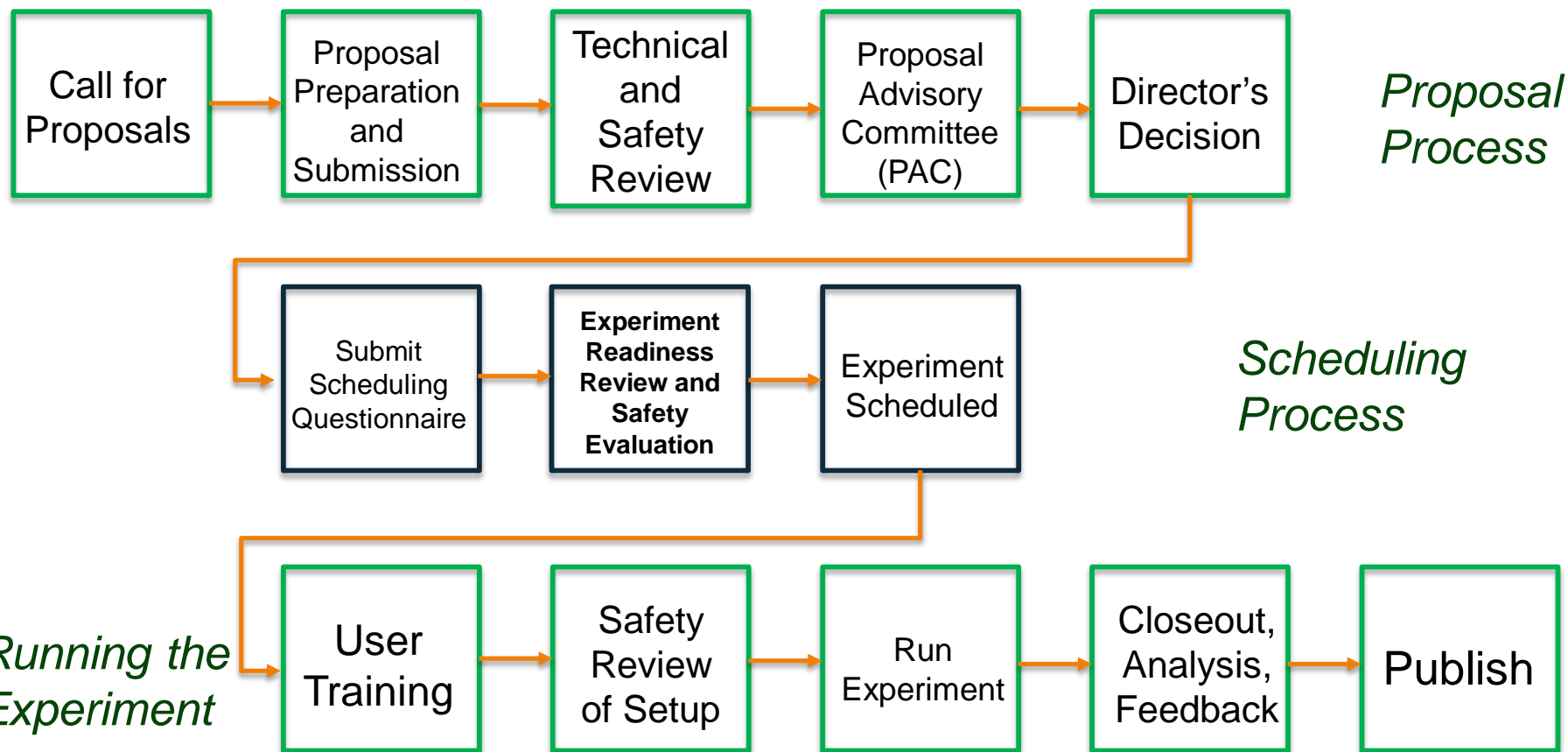
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FRIB Life Cycle of an Experiment

- Every step of the experiment process at FRIB can be managed through the User Portal



PAC Overview

- The FRIB Program Advisory Committee (PAC) will review and evaluate submissions to a call for proposals issued by the FRIB Laboratory Director. The evaluation will be based on
 - The full scientific value of the results
 - The ability of the collaboration to execute the experiment and publish the results in a timely manner
- Based on their evaluation, the PAC will make recommendations for allocation of beam to the FRIB Laboratory Director
- Decisions to grant beam time will be made by the FRIB Laboratory Director
- The FRIB Laboratory Director will reserve 5% of beam time for discretionary experiments



PAC Timeline

- The first FRIB Call for Proposals will occur about 18 months prior to project completion
- The PAC 1 beams will be posted on the FRIB website, updated for PAC 2, and updated for subsequent PACs
- Approved proposals will be valid for a two year period
- ReA beams will be based on NSCL experience, scaled for the increased primary beam power and energy from FRIB
- New ReA beams and LINAC primary beams can be requested in a Letter of Intent to the FRIB Scientific Director
- FRIB PACs will occur approximately once per year in the first two years and then following that we anticipate more frequent PAC meetings
- PAC 1 Call will be issued in Fall 2020



PAC Composition

- Members will be world-leading scientists, highly regarded in the low-energy community
- Membership will include approximately nine individuals
- The term will be three years
- Theory and DOE-NNSA will be represented
- The FRIB Scientific Director will be a non-voting convener
- The FRIB Manager for User Relations will be a non-voting administrator
- Observer status will be offered to DOE-SC ONP and a representative of the FRIBUO



Proposal Review

- Proposals will have page limits with required sections covering science, goals, technical issues
- No oral presentations
- Proposals will be reviewed by the FRIB Laboratory for technical feasibility and safety issues. Spokespeople will be given at least three weeks to respond to these reviews. Cost and laboratory effort will be estimated
- A primary and secondary reviewer will be assigned to each proposal
- Two weeks prior to the PAC the reviewers will submit their top three questions to the Spokesperson. A videoconference to answer the questions will be arranged one week prior to the PAC meeting
- Proposals will be kept confidential as allowed by law, but will be available to FRIB operations and technical staff as needed



Requirements for Spokesperson: Preparing for Experiments

- An Experiment Readiness Review occurs prior to the experiment being scheduled to determine resources that are needed
 - Mechanical design support – an engineer will work with the user to model an experiment layout for every experiment
 - Fabrication support in the FRIB machine shop to fabricate parts needed to couple the user's equipment to FRIB beamlines
 - Utilities: liquid nitrogen, special/additional electrical outlets, LCW, etc.
 - Alignment, Controls, Vacuum, Shipping & Receiving, IT support (experiment account creation), DAQ support
- Beam Physicist works with spokesperson to optimize secondary beam setting (rate, purity) and tuning through the fragment separator
- Device Physicist works with spokesperson for supported experimental devices (S800 spectrograph, SeGA, GRETINA, Sweeper Magnet, LH2 target, SECAR, ReA3 Hall, ReA6 Hall)

FRIB Instruments

- Laboratory Supported Instruments are operated by an FRIB Device Physicist. These instruments have Service Level Descriptions describing the device and the level of support, which will be available on the FRIB website by the time of the first Call for Proposals
 - S800 spectrograph, SeGA, GRETINA, Sweeper magnet, LH2 target, JENSA, SECAR, ReA3 Hall, ReA6 Hall
- Some instruments requires collaboration
 - Collaboration Instruments – Permanent
 - » BECOLA, FRIB Decay Station, LEBIT, SOLARIS
 - Collaboration Instruments - Portable
 - » For example: AT-TPC, ANASEN, superCHICO, superORRUBA, TRIPLEX Plunger, and other user supplied equipment
- To propose an experiment with the collaboration supported instruments, please email the contact person listed on the website



Requirements for User Coming On-site

- All scientific users coming on-site for an experiment must be listed as a participant. If the user was not identified as an experiment participant during the proposal process, the spokesperson of the experiment will need to add them to the experiment within the User Portal
 - The experiment spokesperson has the ability to add participants up to a minimum of three weeks prior to the experiment start date.
- The user will then select “Request to Come On-site” within the User Portal
- At least two weeks prior to the planned visit, the user will provide
 - Scientific User Disclosure Form for Export Control (for non-US persons)
 - Most recent copy of CV (for non-US persons)
 - User Agreement on file between FRIB and the user’s home institution (all users)
 - Completed safety training (online, all users)
- MSU will review the documentation, make available to DOE on request, and give approval
- Upon arrival, present valid government-issued photo ID



Getting Here and Accommodation

- Proximity to a number of airports: Lansing, Detroit, Grand Rapids, Flint
- Michigan Flyer bus service from Detroit airport
- Parking provided in the Shaw Parking Ramp, directly across the street from FRIB (parking pass provided)
- On-campus accommodations include 2-3 Lab-owned apartments and Visiting Scholar Rooms in Owen Hall (located a short two minute walk from FRIB)
- NEW: 15 Visiting Scholar Rooms in Owen Hall will be remodeled to include private bathrooms (Rendition shown)
- Off-campus accommodations include a number of area hotels which offer significantly reduced rates for FRIB users
 - Currently 5 hotels ~1 mile from the Lab
 - Most hotels ~\$80-\$100 per night with the FRIB rate [current rates, subject to change]



On-site Amenities

- User Area with four private offices and common area
- Guest WiFi including Eduroam network
- Food: all-you-can-eat cafeterias, Sparty's (grab-and-go), Starbucks, and Panera – all of these options are <0.25 miles from FRIB
- Childcare
 - MSU has an arrangement with Bailey Preschool and Childcare center for emergency child care for MSU staff. Available for FRIB Users as well (depends on dates/availability)
 - If coming in the summer, there are many area camps. A few examples include Impression 5 Science Center, Nottingham Equestrian Center, City of East Lansing Hannah Community Center, MSU Language Camps
- Two private, secure rooms for nursing mothers (with sink and refrigerator in the room) at FRIB
- Access to MSU gyms (IM East gym is about a four minute walk from FRIB) and walking trails



Communication with Users

- Quarterly conference calls with the FRIB Users Organization Executive Committee
- Monthly conference calls with the Chair of the FRIB Users Organization Executive Committee
- Webinars featuring the FRIB Scientific Director
- Annual Low Energy Community Meeting
- FRIB First Experiments: On-Line Proposal Preparation Workshop 4-8 May 2020
- In-person FRIB Proposal Writing Workshop planned for Fall 2020
- Updates to User section of the FRIB Website are in progress, which will include a special “User News” section



Summary

- FRIB Users Organization is established and active
- First step to becoming an FRIB User is to log into the User Portal and create a profile
- FRIB User Portal is under development, with first phase complete. The User Portal is the first place the user can go to engage with the FRIB Laboratory. Every step of the experiment process can be managed there
- The FRIB PAC Process has been established
- Our goal is to provide outstanding support to you, the user, so that you may execute successful experiments
- While we likely can't do everything, I still want to hear from YOU on what else you need, and what we can do better. I will be reaching out with a survey to workshop attendees

