64th Annual
Maui County Regional
Science and Engineering Fair

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Science Fair Committee

- **Director:**
  - Janine Fisk Janine.Fisk@k12.hi.us
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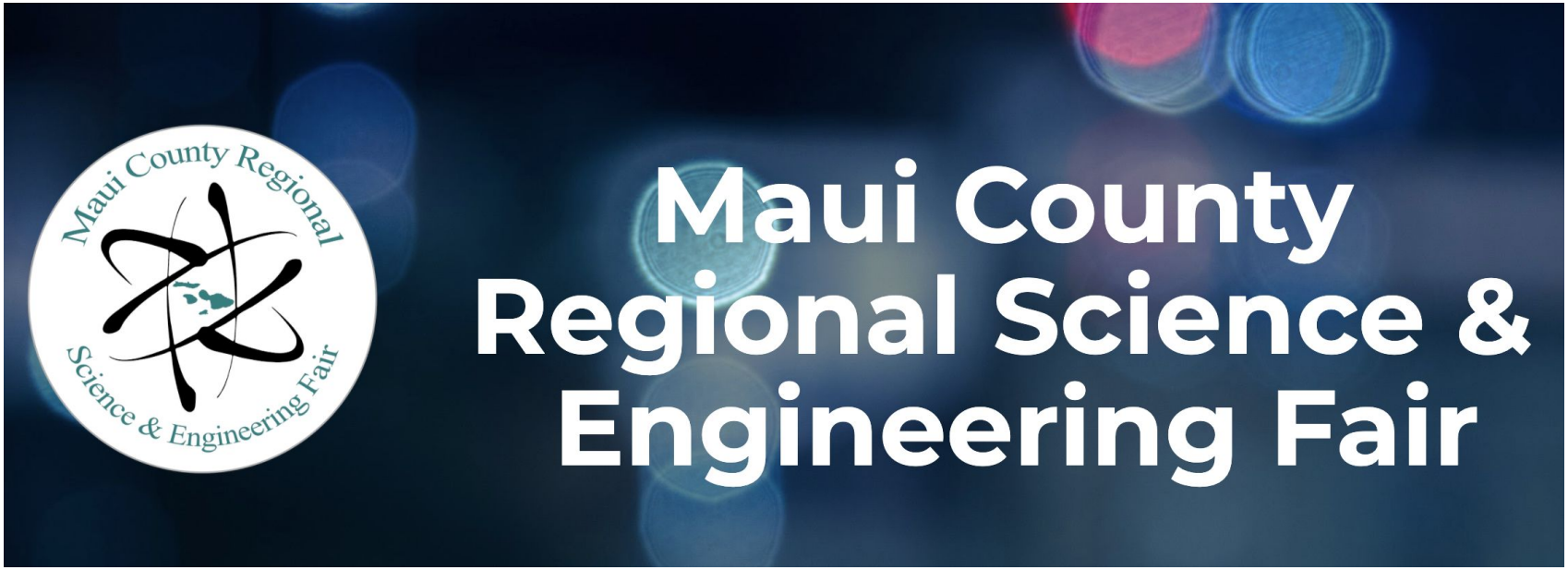
- **Science Review Committee (SRC):** Dr. Bert Akitake
  - jakitake@hotmail.com
- **Institutional Review Board (IRB):**
  - momi.kihata-ball@k12.hi.us

Presentation Link

https://bit.ly/22-23MCRSEF

MCRSEF Website

https://sites.google.com/k12.hi.us/mauiscienceandengineeringfair/home



Overview of School Fairs

1. **School Level Fairs**
   - For schools with more than 40 projects, please email your fair dates.
     - All school level fairs must be completed by January 6, 2023.
   - Number of projects eligible to advance to County from the school level will be determined by MCRSEF.
     - Please email the number of students and number of projects for your school.
   - If your school does not have a school level fair, the student participant is eligible to register directly with the Maui County Regional Science and Engineering Fair (MCRSEF).

2. **Home Schools**
   - Student participant(s) are eligible to register directly with the Maui County Regional Science and Engineering Fair.

Overview of County, State & International Fairs

- **Maui County Regional Science and Engineering Fair at UH Maui College- Conference Room**
  - February 8th
    - Project Registration and Display and Safety Review
  - February 9th
    - Round 1 and Round 2 Judging
  - Number of projects advancing to States will be determined by HSSEF and MCRSEF
  - 1 project advances to ISEF; Additional project awaiting appeal process
- **Hawaii State Science and Engineering Fair**
  - April 6, 2023: Blaisdell Exhibition Hall
    - Neighbor Island setup (optional) April 5, 2023
  - Virtual Award Ceremony TBD
- **International Science and Engineering Fair**
  - May 13-19, 2023
  - Dallas, TX

ISEF Rules

- The Maui County Regional Science and Engineering Fair is an ISEF sanctioned fair and follows the International Rules for Pre-college Science Research. The purpose of these rules is to:
  - protect the rights and welfare of the student researcher
  - protect the rights and welfare of the human participant
  - ensure adherence to federal regulations
  - ensure use of safe laboratory practices
  - protect the environment
  - determine eligibility for competition in the ISEF 2023

- To read a description of the ISEF rules, please navigate to: https://student.societyforscience.org/international-rules-pre-college-science-research

- For rules questions, please contact the Intel ISEF Scientific Review Committee at SRC@societyforscience.org and CC: the MCRSEF director at janine.fisk@k12.hi.us alfred.perez@k12.hi.us katie.hearl@k12.hi.us cynthia.coleman@k12.hi.us

21 Project Categories

- Animal Sciences
- Behavioral and Social Sciences / Psychology
- Biochemistry
- Biomedical and Health Sciences
- Biomedical Engineering
- Cellular and Molecular Biology
- Chemistry
- Computational Biology and Bioinformatics
- Earth and Environmental Sciences
- Embedded Systems
- Energy: Sustainable Materials and Design
- Engineering Mechanics
- Environmental Engineering
- Materials Science
- Mathematics
- Microbiology
- Physics and Astronomy
- Plant Sciences
- Robotics and Intelligent Machines
- Systems Software / Computer Science
- Translational Medical Science

To read a description of each category, please navigate to:
https://www.societyforscience.org/isef/categories-and-subcategories/

ISEF RULES Wizard

Rules Wizard

The Rules Wizard has been designed as a first step to help you determine what forms and approvals are necessary before beginning a science fair project. Answer each of the 9 questions and a result page will provide a list of forms and information based on your answers; these forms and the accompanying rules should be reviewed closely with a teacher or mentor BEFORE experimentation begins.

This wizard is intended to be a helping tool, but cannot account for all specifics and situations of your individual project. Please be sure to review the International Rules. The Virtual Regeneron ISEF SRC (Scientific Review Committee) is available via e-mail (SRC@societyforscience.org) to answer any specific questions you may have.

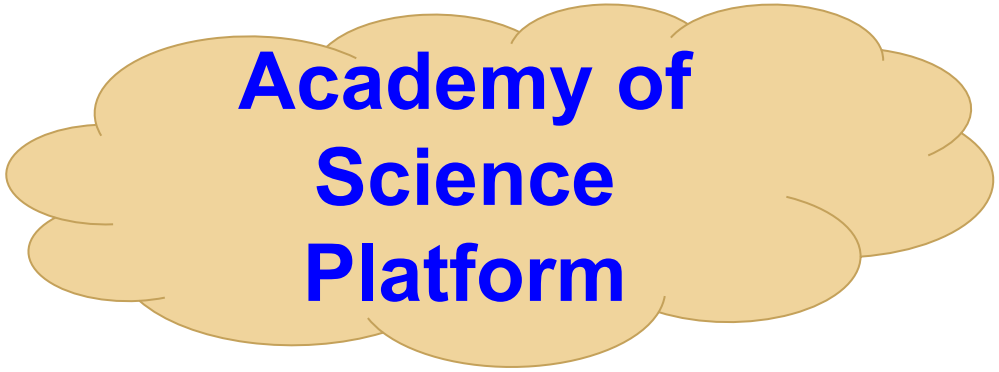
You can move through the wizard screens by using the "Previous" and/or "Next" buttons or you can restart the wizard by using the "Clear & Restart" button at the top or bottom of each page.

Will your experiment include (check all that apply):

- ☐ Vertebrate Animals
- ☐ Human Participants
- ☐ Recombinant DNA
- ☐ Microorganisms
- ☐ Human or Animal Tissue
- ☐ Hazardous Chemicals, Activities, or Devices
- ☐ Student-Designed Invention, App, or Prototype
- ☐ None of the Above

https://ruleswizard.societyforscience.org/

New Platform



Amy Weintraub from Academy of Science

Required Forms for ALL Projects

- Student Checklist, Form 1A
- Research Plan/Project Summary (Template Link)
- Checklist for Adult Sponsor, Form 1
- Parent Approval Form, Form 1B
- Risk Form, Form 3
- SRC Review Dates:
  - September 27, 2022- Projects involving Risk
  - November 15- Rest of projects due

https://www.societyforscience.org/isef/overview-of-forms-and-dates/

ISEF Form 1A

Student Checklist (1A)

This form is required for ALL projects.

1. a. Student/Team Leader: _____ Grade: _____
   Email: _____ Phone: _____
   b. Team Member: _____ c. Team Member: _____
2. Title of Project: _____
   _____
3. School: _____ School Phone: _____
   School Address: _____
   _____
4. Adult Sponsor: _____ Phone/Email: _____
5. Does this project need SRC/IRB/IACUC or other pre-approval? ☐ Yes (Tentative start date: _____) ☒ No
6. Is this a continuation/progression from a previous year? ☐ Yes ☒ No
   If Yes:
   a. Attach the previous year's ☐ Abstract **and** ☐ Research Plan/Project Summary
   b. Explain how this project is new and different from previous years on
   ☐ Continuation/Research Progression Form (7)
7. This year's experimentation/data collection:
   _____ _____
   Actual Start Date: (mm/dd/yy) End Date: (mm/dd/yy)
8. Where will you conduct your experimentation? (check all that apply)
   ☐ Research Institution ☐ School ☐ Field ☐ Home ☐ Other: _____
9. Source of Data:
   ☐ Collected self/mentor ☐ Other Describe/url: _____
10. List the name and address of all non-home and non-school work site(s), whether you worked there virtually or on-site:
    Name _____ _____
    Address: _____ _____
    _____ _____
    Phone/email _____ _____
11. **Complete a Research Plan/Project Summary following the Research Plan/Project Summary instructions must accompany this form.**
12. **An abstract is required for all projects after experimentation.**

Research Plan/Project Summary Instructions

A complete Research Plan/Project Summary is required for ALL projects and must accompany Student Checklist (1A).

- All projects must have a Research Plan/Project Summary
  a. The Research Plan is to be written prior to experimentation following the instructions below to detail the rationale, research question(s), methodology, and risk assessment of the proposed research.
  b. If changes are made during the research, such changes can be added to the original research plan as an addendum, recognizing that some changes may require returning to the IRB or SRC for appropriate review and approvals. If no additional approvals are required, this addendum serves as a project summary to explain research that was conducted.
  c. If no changes are made from the original research plan, no project summary is required.
  d. Some studies, such as an engineering design or mathematics projects, will be less detailed in the initial project plan and will change through the course of research. If such changes occur, a project summary that explains what was done is required and can be appended to the original research plan.
- The Research Plan/Project Summary should include the following:
  a. **RATIONALE:** Include a brief synopsis of the background that supports your research problem and explain why this research is important and if applicable, explain any societal impact of your research.
  b. **RESEARCH QUESTION(S), HYPOTHESIS(ES), ENGINEERING GOAL(S), EXPECTED OUTCOMES:** How is this based on the rationale described above?
  c. Describe the following in detail:
     - **Procedures:** Detail all procedures and experimental design including methods for data collection, and when applicable, the source of data used. Describe only your project. Do not include work done by mentor or others. If you will use published surveys, questionnaires or tests, describe how you obtained these, including required permission if applicable.
     - **Risk and Safety:** Identify any potential risks and safety precautions needed.
     - **Data Analysis:** Describe the procedures you will use to analyze the data/results.
  d. **BIBLIOGRAPHY:** List major references (e.g. science journal articles, books, internet sites) from your literature review. If you plan to use vertebrate animals, one of these references must be an animal care reference.

Items 1–4 below are subject-specific guidelines for additional items to be included in your research plan/project summary as applicable.

1. **Human participants research:**
   a. **Participants:** Describe age range, gender, racial/ethnic composition of participants. Identify vulnerable populations (minors, pregnant women, prisoners, mentally disabled or economically disadvantaged).
   b. **Recruitment:** Where will you find your participants? How will they be invited to participate?
   c. **Methods:** What will participants be asked to do? Will you use any surveys, questionnaires or tests? If yes and not your own, how did you obtain? Did it require permissions? If so, explain. What is the frequency and length of time involved for each subject?
   d. **Risk Assessment:** What are the risks or potential discomforts (physical, psychological, time involved, social, legal, etc.) to participants? How will you minimize risks? List any benefits to society or participants.
   e. **Protection of Privacy:** Will identifiable information (e.g., names, telephone numbers, birth dates, email addresses) be collected? Will data be confidential/anonymous? If anonymous, describe how the data will be collected. If not anonymous, what procedures are in place for safeguarding confidentiality? Where will data be stored? Who will have access to the data? What will you do with the data after the study?
   f. **Informed Consent Process:** Describe how you will inform participants about the purpose of the study, what they will be asked to do, that their participation is voluntary and they have the right to stop at any time.
2. **Vertebrate animal research:**
   a. Discuss potential ALTERNATIVES to vertebrate animal use and present justification for use of vertebrates.
   b. Explain potential impact or contribution of this research.
   c. Detail all procedures to be used, including methods used to minimize potential discomfort, distress, pain and injury to the animals and detailed chemical concentrations and drug dosages.
   d. Detail animal numbers, species, strain, sex, age, source, etc., include justification of the numbers planned.
   e. Describe housing and oversight of daily care.
   f. Discuss disposition of the animals at the end of the study.
- **Potentially hazardous biological agents research:**
  a. Give source of the organism and describe BSL assessment process and BSL determination.
  b. Detail safety precautions and discuss methods of disposal.
4. **Hazardous chemicals, activities & devices:**
   a. Describe Risk Assessment process, supervision, safety precautions and methods of disposal.
   b. Material Safety Data Sheets are not necessary to submit with paperwork.

Subject Specific Research Plan Guidelines

Items 1–4 below are subject-specific guidelines for additional items to be included in your research plan/project summary as applicable.

1. **Human participants research:**
   a. **Participants:** Describe age range, gender, racial/ethnic composition of participants. Identify vulnerable populations (minors, pregnant women, prisoners, mentally disabled or economically disadvantaged).
   b. **Recruitment:** Where will you find your participants? How will they be invited to participate?
   c. **Methods:** What will participants be asked to do? Will you use any surveys, questionnaires or tests? What is the frequency and length of time involved for each subject?
   d. **Risk Assessment:** What are the risks or potential discomforts (physical, psychological, time involved, social, legal, etc.) to participants? How will you minimize risks? List any benefits to society or participants.
   e. **Protection of Privacy:** Will identifiable information (e.g., names, telephone numbers, birth dates, email addresses) be collected? Will data be confidential/anonymous? If anonymous, describe how the data will be collected. If not anonymous, what procedures are in place for safeguarding confidentiality? Where will data be stored? Who will have access to the data? What will you do with the data after the study?
   f. **Informed Consent Process:** Describe how you will inform participants about the purpose of the study, what they will be asked to do, that their participation is voluntary and they have the right to stop at any time.

2. **Vertebrate animal research:**
   a. Discuss potential ALTERNATIVES to vertebrate animal use and present justification for use of vertebrates.
   b. Explain potential impact or contribution of this research.
   c. Detail all procedures to be used, including methods used to minimize potential discomfort, distress, pain and injury to the animals and detailed chemical concentrations and drug dosages.
   d. Detail animal numbers, species, strain, sex, age, source, etc., include justification of the numbers planned.
   e. Describe housing and oversight of daily care
   f. Discuss disposition of the animals at the termination of the study.

3. **Potentially hazardous biological agents research:**
   a. Give source of the organism and describe BSL assessment process and BSL determination.
   b. Detail safety precautions and discuss methods of disposal.

4. **Hazardous chemicals, activities & devices:**
   • Describe Risk Assessment process, supervision, safety precautions and methods of disposal.

[Student Research Plan Template]

ISEF Form 1, Adult Sponsor

Zoom in

Checklist for Adult Sponsor (1)

This completed form is required for ALL projects.

To be completed by the Adult Sponsor in collaboration with the student researcher(s):

Student's Name(s): _____

Project Title: _____

1. ☐ I have reviewed the ISEF Rules and Guidelines, including the science fair ethics statement.
2. ☐ I have reviewed the student's completed Student Checklist (1A) and Research Plan/Project Summary.
3. ☐ I have worked with the student and we have discussed the possible risks involved in the project.
4. ☐ The project involves one or more of the following and requires prior approval by an SRC, IRB, IACUC or IBC:
   - ☐ Humans
   - ☐ Vertebrate Animals
   - ☐ Potentially Hazardous Biological Agents
     - ☐ Microorganisms ☐ rDNA ☐ Tissues
5. ☐ Items to be completed for **ALL PROJECTS**
   - ☐ Adult Sponsor Checklist (1)
   - ☐ Student Checklist (1A)
   - ☐ Research Plan/Project Summary
   - ☐ Approval Form (1B)
   - ☐ Regulated Research Institutional/Industrial Setting Form (1C) (when applicable; after completed experiment)
   - ☐ Continuation/Research Progression Form (7) (when applicable)

Additional forms required if the project includes the use of one or more of the following (check all that apply):

☐ **Humans,** including student designed inventions/prototypes. (Requires prior approval by an Institutional Review Board (IRB); see full text of the rules.)
- ☐ Human Participants Form (4) or appropriate Institutional IRB documentation
- ☐ Sample of Informed Consent Form (when applicable and/or required by the IRB)
- ☐ Qualified Scientist Form (2) (when applicable and/or required by the IRB)

☐ **Vertebrate Animals** (Requires prior approval, see full text of the rules.)
- ☐ Vertebrate Animal Form (5A) - for projects conducted in a school/home/field research site (SRC prior approval required
- ☐ Vertebrate Animal Form (5B) - for projects conducted at a Regulated Research Institution. (Institutional Animal Care and Use Committee (IACUC) approval required prior experimentation.)
- ☐ Qualified Scientist Form (2) (Required for all vertebrate animal projects at a regulated research site or when applicable)

☐ **Potentially Hazardous Biological Agents** (Requires prior approval by SRC, IACUC or IBC, see full text of the rules.)
- ☐ Potentially Hazardous Biological Agents Risk Assessment Form (6A)
- ☐ Human and Vertebrate Animal Tissue Form (6B) - to be completed in addition to Form 6A when project involves the use of fresh or frozen tissue, primary cell cultures, blood, blood products and body fluids.
- ☐ Qualified Scientist Form (2) (when applicable)
- ☐ The following are exempt from prior review but require a Risk Assessment Form 3: projects involving protists, archae and similar microorganisms; projects using manure for composting, fuel production or other non-culturing experiments; projects using color change coliform water test kits, microbial fuel cells; and projects involving decomposing vertebrate organisms.

☐ **Hazardous Chemicals, Activities and Devices** (No SRC prior approval required, see full text of the rules.)
- ☐ Risk Assessment Form (3)
- ☐ Qualified Scientist Form (2) (required for projects involving DEA-controlled substances or when applicable)

☐ **Other**
- ☐ Risk Assessment Form (3)

☐ **I attest to the information checked above and that I have read and agree to abide by the science fair ethics statement.**

Adult Sponsor's Printed Name	Signature	Date of Review (mm/dd/yy)

ISEF Form 1B, Approval Form

Approval Form (1B)

A completed form is required for each student, including all team members.

1. To Be Completed by Student and Parent

a. Student Acknowledgment:

- I understand the risks and possible dangers to me of the proposed research plan.
- I have read the ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research.
- I have read and will abide by the science fair ethics statement.

Student researchers are expected to maintain the highest standards of honesty and integrity. Scientific fraud and misconduct are not condoned at any level of research or competition. Such practices include but are not limited to plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and ISEF.

Student's Printed Name	Signature	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)

b. Parent/Guardian Approval: I have read and understand the risks and possible dangers involved in the **Research Plan/Project Summary**. I consent to my child participating in this research.

Parent/Guardian's Printed Name	Signature	Date Acknowledged (mm/dd/yy) (Must be prior to experimentation.)

2. To be completed by the local or affiliated Fair SRC

(Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.)

a. Required for projects that need prior SRC/IRB approval BEFORE experimentation (humans, vertebrates or potentially hazardous biological agents).

The SRC/IRB has carefully studied this project's **Research Plan/Project Summary** and all the required forms are included. My signature indicates approval of the **Research Plan/Project Summary** before the student begins experimentation.

SRC/IRB Chair's Printed Name

Signature

Date of Approval (mm/dd/yy) (Must be prior to experimentation.)

OR

b. Required for research conducted at all Regulated Research Institutions with no prior fair SRC/IRB approval.

This project was conducted at a regulated research institution (**not home or high school, etc.**), was reviewed and approved by the proper institutional board before experimentation and complies with the ISEF Rules. **Attach (1C) and any required institutional approvals (e.g. IACUC, IRB).**

SRC Chair's Printed Name

Signature

Date of Signature (mm/dd/yy) (May be after experimentation)

3. Final ISEF Affiliated Fair SRC Approval (Required for ALL Projects)

SRC Approval After Experimentation and Before Competition at Regional/State/National Fair

I certify that this project adheres to the approved **Research Plan/Project Summary** and complies with all ISEF Rules.

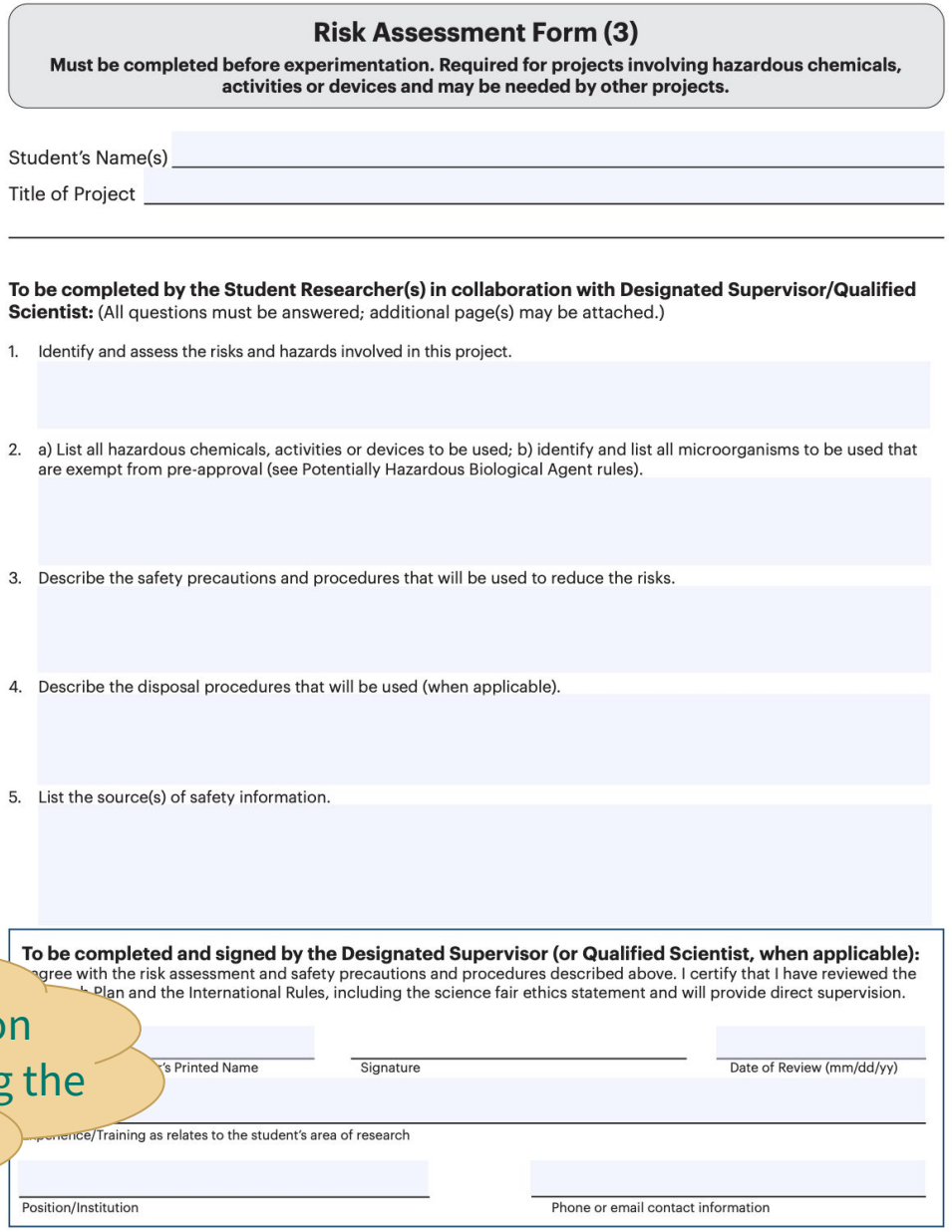
Regional SRC Chair's Printed Name	Signature	Date of Approval (mm/dd/yy)

State/National SRC Chair's Printed Name *(where applicable)*	Signature	Date of Approval (mm/dd/yy)

Form 3 – Risk Assessment

- If you are the teacher and/or the adult supervisor…
  - Discuss possible risks involved with project with student participant(s).
  - Provide feedback to student on his/her research plan to include safety precautions and procedures used to reduce any potential risks.
  - Ensure all ISEF rules and safety regulations are followed.
  - All signatures may be typed.

The designated supervisor is the person that ensures the student(s) is following the safety precautions and procedures.



Risk Assessment Form (3)

Must be completed before experimentation. Required for projects involving hazardous chemicals, activities or devices and may be needed by other projects.

Student's Name(s) _____

Title of Project _____

_____

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

1. Identify and assess the risks and hazards involved in this project.
2. a) List all hazardous chemicals, activities or devices to be used; b) identify and list all microorganisms to be used that are exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
3. Describe the safety precautions and procedures that will be used to reduce the risks.
4. Describe the disposal procedures that will be used (when applicable).
5. List the source(s) of safety information.

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):
…gree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the …l Plan and the International Rules, including the science fair ethics statement and will provide direct supervision.

…'s Printed Name | Signature | Date of Review (mm/dd/yy)

…perience/Training as relates to the student's area of research

Position/Institution | Phone or email contact information

Additional Forms Required

Recommendation to please review ISEF rules for projects involving Human Subjects, Vertebrate Animals, Potentially Hazardous Biological Agents and Hazardous Chemicals, Activities or Devices, DEA-controlled substances, and continuation projects.

- Please navigate to: https://student.societyforscience.org/international-rules-pre-college-science-research

SRC review and approval: Sept. 27 (projects involving risk), Oct. 28, & Nov. 15

MCRSEF Important Dates

2022-2023 Maui County Regional Science and Engineering Fair Dates and Deadlines	
August 9, 2022	Science Fair Orientation Meeting #1
August 10, 2022	Registration Opens: Fill out Intent to Participate and Mentor/Teacher form on MCRSEF website
September 6, 2022	Science Fair Orientation Meeting #2 with Hawai'i Academy of Science
Before Start of ANY Projects	Create an IRB Panel, Students ID project topic and complete forms listed on MCRSEF website
September 27, 2022	SRC Pre-Approval Deadline for High Risk Projects SRC Pre-Approval Deadline- 1st
October 28, 2022	SRC Pre-Approval Deadline- 2nd
November 15, 2022	SRC Pre-Approval Deadline- **3rd & FINAL DEADLINE** to submit Intent to Participate and Mentor/Teacher form on MCRSEF website
January 6, 2023	Last day to hold school science fairs.
January 9, 2023	District Fair Informational Meeting for Mentors/Teachers
January 11, 2023	**DEADLINE** to submit school promotion list of student projects and for changing categories
January 9, 2023 to January 13, 2023	Complete 2023 MCRSEF **Student Registration** on **HSA platform + media release + Photo**
January 20, 2023	**DEADLINE** to address infractions on projects for MCRSEF
February 8, 2023	Registration and Set Up at UH Maui College
February 9, 2023	Round I and II Judging at UH Maui College MCRSEF Awards Ceremony

Judging Criteria for Science Projects - TBD

I. Research Question (10 pts)

___ clear and focused purpose

___ identifies contribution to field of study

___ testable using scientific methods

II. Design and Methodology (15 pts)

___ well designed plan and data collection methods

___ variables and controls defined, appropriate and complete

III. Execution: Data Collection, Analysis and Interpretation (20 pts)

___ systematic data collection and analysis

___ reproducibility of results

___ appropriate application of mathematical and statistical methods

___ sufficient data collected to support interpretation and conclusions

IV. Creativity (20 pts)

___ project demonstrates significant creativity in one or more of the above criteria

V. Presentation (35 pts)

a. Poster 10 pts)

___ logical organization of material

___ clarity of graphics and legends

___ supporting documentation displayed

b. Interview (25 pts)

___ clear, concise, thoughtful responses to questions

___ understanding of basic science relevant to project

___ understanding interpretation and limitations of results and conclusions

___ degree of independence in conducting project

___ recognition of potential impact in science, society and/or economics

___ quality of ideas for further research

___ for team projects, contributions to and understanding of project by all memebers

@soceity4science

Judging Criteria for Engineering Projects - TBD

I. Research Problem (10 pts)

___ description of a practical need or problem to be solved

___ definition of criteria for proposed solution

___ explanation of constraints

II. Design and Methodology (15 pts)

___ exploration of alternatives to answer need or problem

___ identification of a solution

___ development of a prototype/model

III. Execution: Construction and Testing(20 pts)

___ prototype demonstrates intended design

___ prototype has been tested in multiple conditions/trials

___ prototype demonstrates engineering skill and completeness

IV. Creativity (20 pts)

___ project demonstrates significant creativity in one or more of the above criteria

V. Presentation (35 pts)

a. Poster (10 pts)

___logical organization of material

___clarity of graphics and legends

___ supporting documentation displayed

b. Interview (25 pts)

___ clear, concise, thoughtful responses to questions

___ understanding of basic science relevant to project

___ understanding interpretation and limitations of results and conclusions

___ degree of independence in conducting project

___ recognition of potential impact in science, society and/or economics

___ quality of ideas for further research

___ for team projects, contributions to and understanding of project by all members

Additional Resources

Hawaii Academy of Science:
https://www.hawaiiacademyofscience.org/science-fair

International Science and Engineering Fair:
http://www.societyforscience.org/isef/

Science Buddies: http://www.sciencebuddies.org

Discovery Education Science Fair Central:
https://sciencefaircentral.com/

MCRSEF Office Hours

- Maui, Moloka'i, and Lāna'i Office Hours will be provided upon request.
  - Cynthia.Coleman@k12.hi.us For HLLM and private/charter
  - Alfred.Perez@k12.hi.us For BKKM Students/Teachers
    - Support teachers, students and families with project development and research plan
    - Support teachers, students and families with presentation requirements, rules, regulations and review
    - Consult a scientist / engineer
    - Other suggestions....

Additional Science Opportunities with the Hawaii Academy of Science

- Virtual Office Hours - TBD

MAHALO

https://sites.google.com/k12.hi.us/mauiscienceandengineeringfair/home