

FINAL CONFIRMATION and INFORMATION PACKET

STUDENT

73rd Annual Los Angeles County Science & Engineering Fair

Note: All virtual project materials (report, video, & pictures of logbooks) are due March 2, 2023.

All project registration and set-up must take place on Sunday, March 12, 2023 at the Shrine Expo Hall. Both parts must be completed in order to participate this year.



Los Angeles County Science & Engineering Fair

February 21, 2023

Dear Student Participant,

Congratulations on being accepted into the 73rd Annual Los Angeles County Science and Engineering Fair!!! Listed below is important information regarding the event. Please make sure to familiarize yourself with it.

All Student Participants must complete a virtual project submission no later than Thursday, March 2nd, 2023. Specific instructions are provided in this packet.

Additionally, all Student Participants will be provided with a bar-coded name badge at the Fair. You may pick it up during Registration on March 12th, or get it from the Information Table on March 13th. **You must wear your name badge at all Science Fair events.** (*If your teacher or another designated adult plans to register and set up and/or remove your project, he or she must have this name badge.*) This badge is your entry ticket for judging and must be shown to remove your project.

If you are competing in the Senior Division, please remember to bring the completed and signed ISEF Pre-approval Certification Forms. Links for these forms can be found at <https://student.societyforscience.org/intel-isef-forms>.

LOCATION: Shrine Expo Hall
665 W. Jefferson Blvd.
Los Angeles, CA 90007
For ways to get here:
<https://www.shrineauditorium.com/general-info/plan-your-visit/directions>

PARKING: Shrine Expo Hall
For Parking instructions:
<https://www.shrineauditorium.com/general-info/plan-your-visit/parking>
Please note some parking structures may be closed on Sunday & Monday, March 12-13, 2023. We will send you an update on parking in the week before the Fair.

DINING: There is a snack bar at the venue selling drinks and light snacks. These must be eaten on the 2nd floor where the Interactive Exhibits were located on Sunday, March 12th. Additionally, here is a link to local eateries:
<https://www.shrineauditorium.com/general-info/plan-your-visit/hotels-dining>

SCHEDULE

THURSDAY, MARCH 2, 2023 - Virtual Project Submissions Due!

View the Instructions for Virtual Submission below for specific directions on what and how to submit student work. Virtual Submissions must be made by 11:59 PM on Thursday, March 2, 2023 using this [Google Form](#).

SUNDAY, MARCH 12, 2023 - Project Check-In / Public Day / Interactives

NOTE: This is the ONLY day for students to register and set-up their projects / display boards. If projects are not registered and set-up on this day, they will not be permitted into the Fair on Monday, March 13th. Please make sure you or a designee (teacher, parent, friend, teammate) come to registration on March 12th.

11:00 AM - 5:00 PM

Registration and Project Set-Up in the Exhibit Hall - 1st Floor

Registration includes students picking up their badges outside, going through the Shrine's security check, then proceeding to the exhibit hall, setting-up their project at their assigned station, asking a Project Screener to check their set-up, making any mandatory changes stipulated by the Project Screener, and getting their final sign-off on the set-up.

***** For registration, students must arrive no later than 4:45PM*****

11:00 AM - 3:00 PM

Interactive Exhibits in the Exhibit Hall - 2nd Floor (Westside)

Free hands-on activities for students, parents, teachers, and visitors.

11:30 AM - 4:30 PM

Student Workshops for Judging Interviews - 2nd Floor (Eastside)

(optional, but recommended) Workshops will be offered every half hour beginning at 11:30 AM. After setting up the project display board in the Exhibit Hall on the 1st floor, students may attend a 20-minute workshop upstairs across from the Interactive Exhibits on the 2nd floor on how to practice and prepare for interview success.

5:00 PM

Registration Closes

Students whose projects have NOT been registered and set-up will not be permitted to enter the Fair . . . Period!

MONDAY, MARCH 13, 2023 - Judging, Student Interviews

NOTE: No student will be allowed to register and/or set-up a project on Monday who did not register on Sunday, March 12th. Students may bring items they did not want to leave overnight on Sunday to show the judges during their interviews. These items are the responsibility of the student. The Los Angeles County Science & Engineering Fair assumes no responsibility for lost, stolen, or damaged items.

8:30 AM

Arrive at the Shrine Expo Hall and get in line to go through the security check-in. Remember the Shrine has a "no big bags/clear bags only" policy like that of Dodger Stadium.

8:45 AM

Students permitted to enter the Exhibit Hall on the 1st floor.

9:05 AM

Students meet at project # 1 of their category to meet with their category's judges.

9:10 - 11:45 AM	<p><u>Judging and Interviews</u> - Exhibit Hall - 1st floor</p> <p>During the 9:05 am meeting with category judges, the category chair will let students know how long interviews will last and the order of interviews, so students can determine the times they MUST be at their project.</p> <p>During free time, students can read a book, meet with other students in their category, do any homework they may have, be on their phone, or grab a snack.</p>
11:45 AM - 1:30 PM	<p>Lunch (~1 hr/student) begins (staggered by categories, every 15 minutes). The category lunch schedule will be distributed at Registration on March 12th. Food is available for purchase from a concession stand or local eateries. Bringing lunch is strongly recommended.</p> <p><i>**Please be back on-time, so you don't miss any interviews.**</i></p>
End of lunch - 4:00 PM	<p><u>Afternoon Judging</u> - Every student must be present at their project board. Students sit by project boards for additional interviews.</p>
4:00 PM or earlier	<p>Students are dismissed <i>by their judging panel</i> after receiving their participation certificate and must exit the Exhibit Hall with all their stuff. All display boards and materials must be taken home upon dismissal.</p>
4:00 - 5:00 PM	<p>Judges determine Place Winners, Special Awards (<i>no students allowed in Exhibit Hall</i>)</p>

SUNDAY, MARCH 19, 2023 - Virtual Awards Ceremony

12:00 PM	<p><u>Awards Program begins</u> – Virtual Ceremony</p> <p>All students are requested to attend the Virtual Awards Program. Directions on how to attend/view will be provided in March 2023.</p>
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Checklist for Student Registration

March 12th, 2023

Please bring the following to items to Registration:

1. Student ID / Drivers' License / picture on your phone of your Photo ID
2. **Science Fair Project**
 - a. Display Board
 - b. Typed Report* (***must be attached to display board***)
 - c. Daily Log / Journal* with raw data (***must be attached to display board***)
 - d. Signed ISEF PDF forms (Sr Division) for projects involving tissues/cell lines, human subjects, vertebrate animals, hazardous materials and/or microbes (*included in a binder/notebook*).
 - e. Signed Human Consent Forms from project participants, for **pre-approved** research on Human Subjects (*included in a binder/notebook*).
 - f. Any other items you wish to display.
- ***make sure you have a copy of your Report and Journal- do not leave your only copy**
3. **Screening Check-Off Sheet**
4. **Signed "Photograph and Video Release"** (Will be included in Student Final Info Packet)
5. **Personal Contact Information** (home / cell phone)

Your full name MUST appear on the back of your Display Board, Report, & Daily Log

For security reasons and the Shrine Expo Hall's policies, only clear, see-through bags will be permitted inside the venue, especially in the Exhibit Hall.

Project Removal

March 13th, 2023

At the end of the afternoon judging session, students will be required to take all of their display materials home when their judging panel dismisses them. Students will know they are officially dismissed when their judging panel gives them their participation certificates. Depending on the size of the category and the number of judges on the judging panel, students may be dismissed sometime between 1:30 PM and 4:30 PM. **Projects remaining after 4:30 PM on March 13th will be discarded.**

If another student has been designated to remove any student projects from their school, the student removing the project must have the project owner's name badge or a selfie of the student's face with their badge showing.

**** Remember all students must be wearing their name badges at all times & all Fair events!**

Instructions for Virtual Project Submissions

1. A picture or scans of the most representative pages of your original logbook (where data was collected). In the absence of a project notebook (log) make a document that shows your data, graphs, and pictures.



2. Video Presentation:
Create a 3-4 minute video of you presenting your project (no larger than 100 MB): - explaining your hypothesis, the procedure, results, and conclusions. (see instructions on next page)
3. Project Report:
Written report – this could be a pdf including the Question/Problem, Hypothesis (if you have one), Research, Materials, Procedure, Data/Graphs, Results, Conclusion, & Bibliography.
4. Submit all of the information via [Google Form](#)

Important Dates/Deadlines:

- Thursday, March 2nd at 11:59 pm is the deadline for submitting all of the above documents via [Google Form](#).
- Tuesday, March 7th each Judging Team will be given access to their categories' submissions.
- Sunday, March 12th will be mandatory On-Site Registration at the Shrine Expo Hall.
- Judging and Student Interviews will be on Monday, March 13th at the Shrine Expo Hall.
- The Virtual Awards Ceremony will take place Sunday, March 19th and will be available to attend via link emailed to all participants after the Fair.
- Awards will be posted to our website – www.lascifair.org on Tuesday, March 21st, 2023.

VIDEO PRESENTATION INSTRUCTIONS

- Plan the video ahead of time so you know the order. If this is a team project, then each team member shares in describing the project. Plan out ahead of time who will speak when.
- Once you are ready:
 - Talk in a loud, clear, voice!! You are the expert on this project.
 - It is normal to be a little nervous. Pretend you are telling a story to your best friend. And you can always start over!
 - If you choose to present your virtual display during your video, you are welcome to, however, this is not required.
- Introduce yourself. If a team, then each team member introduces themselves
 - Name
 - Grade
 - School and School City
- Hypothesis
 - Describe your hypothesis
- Procedure
 - Describe your procedure
- Results and Conclusions
 - Describe your results using your data table and graphs Explain your conclusions.
 - Be sure to show it on the video (you can have the camera move in closer)
- Video cannot be “produced;” it is expected to be a continuous 3-4 minute video. It is ok to be prompted by a parent with questions during the video. (limit 100MB per file)
 - Don’t add any special graphics or music
 - No special editing such as fade-in/out
 - Use your display board to help you make your points throughout your video
- Pick one of the following to upload your video: YouTube or Google
 - Upload your video to YouTube
 - DO NOT mark your video as “Private” or our judges will not be able to access it. You can mark it as “Unlisted”. An unlisted video is a different type of private video. "Unlisted" means that only people who know the link to the video can view it (such as friends or family to whom you send the link). An unlisted video will not appear in any of YouTube's public spaces (such as search results, your channel, or the Browse page).
 - You will copy and paste your YouTube video link in the Google form in the appropriate spot.
 - Upload your video to Google
 - If you choose to upload your link to Google and share a link to that video, make sure you have shared it to “anyone with link” before you upload your link to the Google Form.

Science & Engineering Fair Project Rubric 2023

Student: the judges will be using the following rubric to evaluate your project.

Topic	4	3	2	1
Introduction (I)/ Experimental Question (EQ) & Hypothesis (H) <i>(H may not be present in all projects)</i>	<input type="checkbox"/> It has an original, detailed EQ that clearly outlines the experiment. <input type="checkbox"/> H (where appropriate) is clearly stated and based on research. <input type="checkbox"/> The purpose of the investigation, answers a specific question.	<input type="checkbox"/> It has an EQ that outlines the experiment. <input type="checkbox"/> H (where appropriate) is clearly stated.	<input type="checkbox"/> The EQ is the same as published by another source; lacks originality. <input type="checkbox"/> H is based on assumptions, lacks a review of research.	<input type="checkbox"/> The EQ does not overview the experiment. <input type="checkbox"/> H is not related to the EQ; student lacks understanding of experiment and expected results.
Background Research/ Exploration	<input type="checkbox"/> Research has been done on the scientific process that is being manipulated in the experiment. <input type="checkbox"/> Correct number of cited references are present, written in proper format.	<input type="checkbox"/> Research has been done on the topic of the experiment. <input type="checkbox"/> References are present but may not be cited	<input type="checkbox"/> Minimal research has been done. <input type="checkbox"/> Student lacks understanding of the experimental topics. <input type="checkbox"/> References may be present.	<input type="checkbox"/> Lacks evidence of research related to the topic of the experiment. <input type="checkbox"/> No references or citations are present.
Procedure/ Materials & Methods	<input type="checkbox"/> Detailed ORIGINAL procedure written to allow an outsider to understand all steps that were taken in the experiment. (This includes explanation of the variables, data collected, number of trials, disposal methods, if necessary, and all tools that were used.)	<input type="checkbox"/> The procedure is written to allow an outsider to understand steps that were taken in the experiment. (This includes explanation of the variables, data collected, and all tools that were used.)	<input type="checkbox"/> The procedure is the same as published by another source; lacks originality.	<input type="checkbox"/> The procedure is very brief and doesn't allow a reader to fully understand what was done during the experiment. <input type="checkbox"/> The procedure is not repeatable
Data/ Results <i>*Some projects do not use graphs with data.</i>	<input type="checkbox"/> Appropriate qualitative and/or quantitative data was collected. <input type="checkbox"/> Data is clear and understandable. <input type="checkbox"/> Sample size and number of trials are appropriate for the subject. <input type="checkbox"/> Graphs/data/and tables are appropriately used. <input type="checkbox"/> Data is appropriately labeled. <input type="checkbox"/> Grade appropriate data presentation.	<input type="checkbox"/> Both qualitative and quantitative data has been collected. <input type="checkbox"/> Multiple trials have been conducted. Graphs are present of trials and averages. These graphs include key parts of a graph and a caption.	<input type="checkbox"/> Only one kind of data has been collected. <input type="checkbox"/> Limited trials have been conducted. <input type="checkbox"/> Student has a graph of their data.	<input type="checkbox"/> Minimal data has been collected. <input type="checkbox"/> Only one trial has been completed. <input type="checkbox"/> Graphs are misleading; they do not have equal spans; lacking key information.
Conclusions/ Student Understanding	<input type="checkbox"/> Analysis is thorough and grade appropriate. <input type="checkbox"/> Student has drawn conclusions based on their experiments and research. <input type="checkbox"/> Student is able to discuss the results and cite the data that has been collected. <input type="checkbox"/> The student is able to discuss if/when the research and data match or not. <input type="checkbox"/> Student has further questions and research ideas. <input type="checkbox"/> Great Depth of Understanding	<input type="checkbox"/> Student has drawn conclusions based on the experiments. <input type="checkbox"/> They are able to discuss the results and cite the data that has been collected. <input type="checkbox"/> Student has further questions and research ideas.	<input type="checkbox"/> Student has drawn conclusions based on the experiments. <input type="checkbox"/> Student is able to discuss the results and cite the data that has been collected.	<input type="checkbox"/> Student has difficulty discussing the experiment and results. <input type="checkbox"/> Student does not make connections between results and research.
Video Presentation	<input type="checkbox"/> Video presentation clearly explains the hypothesis, procedure, results, and conclusion of your project. <input type="checkbox"/> Video presentation clearly communicates what your project is about.	<input type="checkbox"/> Video presentation mostly explains the hypothesis, procedure, results, and conclusion of your project. <input type="checkbox"/> Video presentation mostly communicates what your project is about.	<input type="checkbox"/> Video presentation does not explain all the required elements of your project. <input type="checkbox"/> Video lacks clarity communicating what your project is about.	<input type="checkbox"/> Video presentation is missing several of the required elements of your project.

Interview Tips & Tools

1. Think of yourself as belonging to the science community. You are sharing your ideas among colleagues	4. Communicate in a natural manner, not rushed, perhaps just a bit slower than usual. Give each idea its moment in the sun.	7. Allow questions and comments to guide the direction of your presentation. Pause from time to time to allow for dialogue!
2. Find a way to get physically comfortable with yourself just before you begin. Breathe easily!	5. Let your opening start with a BIG IDEA, then connect it to your research topic. Place your project into context!	8. If you don't know, use the moment to think out loud with your colleagues. Show the quality of your thinking process!
3. Draw from what you know by heart– so that it doesn't sound overly “memorized.” Speak from your place of confidence!	6. Provide a brief overview of highlights, like an abstract or a movie trailer. <u>Excite</u> your audience about your project!	9. Used sparingly, humor, charm, and eye contact may help you connect with your colleagues. Stay focused on the science story!

Remember that this is an interview. Look professional!

When interviewed be sure to allow yourself time to get there and to relax! Your interview itself is only about **8 minutes**. You will be asked to be at your project early and to stay a few minutes after!

✓✓ To find your interview time(s) look on the back of the name card at your project location!

Who will interview you?

- ↗ They are scientists in the field, teachers, retired scientists, etc.
- They have seen (and maybe read) your Abstract!
 - They have reviewed your board!
 - They are prepared with questions!



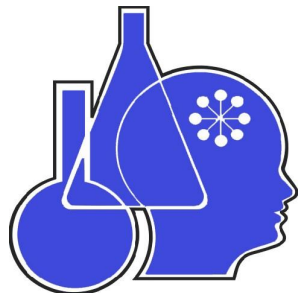
What questions might be asked?

Remember that every group/person will have their own favorite questions... here are the most logical ones, and some of my favorites!

- Why did you choose this experiment?
- What is the significance of this project to your life?
- ↗ What were your variables?
- ↗ What were your controls?
- ↗ How did you make sure to run a fair (controlled experiment)?
- ↗ What were your significant findings? (Results)
- ↗ What formulas did you use?
- ↗ Did your results match your research?
- ↗ How did you use your research? (Did you research?)
- ↗ Did you have any discrepant events? (Weird results that didn't fit the trend?)
- ↗ What further results/experiments might you now be interested in doing?

Partners... you BOTH/ALL have to talk!!

PLEASE PRINT STUDENT INFORMATION:



School _____

Last Name

First

STUDENT PHOTOGRAPH AND VIDEOTAPE RELEASE

I hereby give permission for my child, _____,
to be photographed and/or videotaped under the supervision of the Los Angeles County Science
Fair Committee, for reasonable and appropriate uses to record and publicize the Los Angeles
County Science Fair. I understand that photographs and videotapes may be used in future
Science Fair publicity, and for fundraising purposes.

I, hereby, state that I am the legal guardian of the above named child.

Parent/Guardian Signature _____ Date _____

Phone Number _____
Area Code Number

*Please return this completed form to the
Science Fair Registration Desk on Sunday, March
12, 2023.*

LOS ANGELES COUNTY SCIENCE FAIR DISCLAIMER STATEMENT

The Los Angeles County Science and Engineering Fair Committee, its Board of Directors, the Los Angeles County Office of Education, the Board of Supervisors for Los Angeles County, volunteers and representatives of sponsoring organizations for the 70th Annual Los Angeles County Science Fair, shall be held harmless for injury or death of persons or damage and/or loss of property occurring in connection with the Los Angeles County Science Fair.

LOS ANGELES COUNTY SCIENCE FAIR NON-DISCRIMINATION POLICY

The Los Angeles County Science and Engineering Fair is an equal opportunity for all event, regardless of age, ancestry, color, disability (mental and physical), gender, gender identity, sexual orientation, medical condition, national origin, race and religious creed. Judges & volunteers bear the responsibility to act as guardians and custodians of the students during their volunteering. Their familiarity with the students' special sensitivities is imperative to the overall Science Fair effort to achieve an equal opportunity for all environment, free of discrimination.

Established in 1950, the Los Angeles County Science Fair is a 501 (c) (3) non-profit organization

LOS ANGELES COUNTY SCIENCE FAIR STUDENT CODE OF CONDUCT

As a participant in the Los Angeles County Science Fair:

- I will compete honestly and with good sportsmanship.
- I will act with integrity and treat others with courtesy.
- I will respect Fair volunteers, staff, and judges and their decisions.

LOS ANGELES COUNTY SCIENCE FAIR PLEDGE FOR PARENTS & THE PUBLIC

On behalf of the parents and visitors, I pledge to be an example for our children by:

- Respecting the rules of the Los Angeles County Science & Engineering Fair,
- Encouraging excellence in experimentation and investigation,
- Supporting independence, originality, and creativity in the design and completion of all competitive projects,
- Respecting the authority and decisions of the staff, volunteers, and judges of the Los Angeles County Science & Engineering Fair.

My examples will promote the spirit of cooperation within and among all participating schools.

Parking Directions



The entrance we will be using is off of Royal Street, between the Shrine West Lot and the Shrine building.

Parking Lots*:

- (1) – Shrine West Lot: 715 W. Jefferson Blvd
- (2) – North Parking Structure: 714 W. 32nd Street
- (3) – USC Shrine Structure: 686 W. 32nd Street
- (4) – Royal Street Structure: South side of Jefferson Blvd at Royal St. Intersection

The Shrine Auditorium & Expo Hall is easily accessible via the LA Metro “Expo” Line off the Jefferson/USC exit, for more info visit [metro.net](https://www.metro.net)

Parking lot availability varies based on venue. Pre-pay for parking here:
<https://parking.honkmobile.com/hourly/zones/SHRINE>

Please note that the Los Angeles County Science & Engineering Fair does not validate parking.

**73rd ANNUAL LOS ANGELES COUNTY
SCIENCE & ENGINEERING FAIR
SHRINE EXPO HALL
MARCH 12-13, 2023**

PROJECTS WITH ELECTRICAL NEEDS

- 1**

If a student project requires electricity, the fair will provide one (1) outlet. If additional outlets or surge protection is required, the student must provide these items.
- 2**

Projects that require 120 volt; 60 cycle supply will be allowed a **MAXIMUM of 500 watts.**
- 3**

Projects using 120 volt electrical current must have all wires and connections well-shielded.

NO . . .

- X**

Automotive-type wet cell batteries.
- X**

Electrical equipment operating on more than 12 volts with unshielded connection.