



Department of Physics & Astronomy  
Center for Science Education  
College of Arts and Sciences

Wednesday, November 9, 2022

Ref: **2023 DOD Junior Science and Humanities Symposium (JSHS) for South Carolina.**  
**New Deadline for submission of Intent to Participate Form Friday November 18, 2022.**

Dear Superintendent / Principal and/or Science Coordinator/ Teacher:

We are pleased to invite you and your students to take part in the **2023 DOD SC Junior Science and Humanities Symposium (JSHS)**. The symposium will take place at the Russell House on the USC Columbia campus on **Friday January 27, 2023**. The symposium will consist mainly research presentations by high school students.

Your students can take part in one of two ways:

- 1) **Observer: You** and three or four of your students are welcome to attend the symposium free of charge. We will provide a continental breakfast and lunch. We will also provide dinner and overnight accommodations, (more than 121 km {75 miles} from Columbia) if needed, on the Thursday prior to the symposium at a hotel near the campus. **The number of observers is limited.**
- 2) **Presenter Face to Face:** One or more of your students can submit a written paper describing his or her original research in an area of science or humanities. These presentations are often based on work students have done in school research projects, for science fairs, or for other research presentations. A panel of USC faculty members, Industry Scientists, and Government Scientists will consider these written papers and the top five will be selected for presentation in competition at the full symposium. The symposium presentations will be judged by another committee of scientists and by everyone who attends the symposium. We will pick the top five papers and of these five the top three presenters will win scholarships. All five will have their expenses paid to attend **the face-to-face National 2023 JSHS Meeting at Founders Inn, Virginia Beach, VA, Wed Apr 12-Sat Apr 15, 2023**. All others who submit a paper will have the opportunity to present that paper in a series of concurrent small symposia. Prizes and/or Honors Certificates will be given for the best presentations in each concurrent symposium.

The plan is to have a face-to-face JSHS, if we need to go virtual, all schools will be notified.

If you and your students would like to take part in the symposium, please fill out the Intent to Participate form and return it (by email) by **Friday, November 18, 2022**. When we receive your form, we will send you more specific information about the symposium. The deadline for the submission of research papers is Friday, **December 2, 2022**. **(Note: Only completed research will be accepted)**

Attendance at the symposium is limited, so please respond as quickly as you can. Contact Timir Datta (email: datti@sc.edu) by phone (803 777 8105) if you have any questions. The symposium is supported by funds from the Department of Defense and is free to all participants. Don Jordan is the Assistant Director for 2023.

Timir Datta, Physics & Astronomy Dept., Room 404, Jones Physical Science Center,  
712 Main Street, 803 777 8105 Email: datta@sc.edu

Don M. Jordan / [djordan@sc.edu](mailto:djordan@sc.edu) / [Coker Life Science Building CLS Room 108](#)

Department of Physics 803 777 8105 datta@sc.edu &  
Center for Science Education (Math Specialist) djordan@sc.edu

Website: [www.artsandsciences.sc.edu/cse](http://www.artsandsciences.sc.edu/cse) See JSHS



The Department of Physics and  
The Center for Science Education  
**The University of South Carolina**  
are pleased to announce:



## 2023 Junior Science and Humanities Symposium (JSHS)

**Face to Face**  
**Friday January 27, 2023**  
Russell House on the USC Columbia Campus

The symposium will consist of presentations by scientists and research presentations by high school students.

**The symposium is supported by funds from the Department of Defense and is**

**Free to all participants.**  
**Travel Provide**  
**Overnight Provided**

(Overnight is provided to the schools over 75 miles (120 km) from Columbia SC)



# Intent to Participate Form 2023 Extended Deadline

Use this word doc to fill out this form

Fifty-first (51st) Junior Science and Humanities Symposium

at

University of South Carolina (**Due Friday, Nov 18, 2022**)

**Date of SC JSHS is a Friday January 27, 2023**

**Note This will be a face-to-face symposium.**

My students and I would like to take part in the 2023 Junior Science and Humanities Symposium at USC:

**Lead Teacher's Name:** \_\_\_\_\_  
Last MI First

High School: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
Street City State Zip

Teacher's School Phone Number: \_\_\_\_\_

Teacher's E-Mail: \_\_\_\_\_

A. Number of Teachers Attending: \_\_\_\_\_ (List names of all teachers & emails on page 2)

B. Number of Students Attending: \_\_\_\_\_ (Approximate)

(Normally 4 students are invited from each school)

C. How many of your students plan to submit a research paper? \_\_\_\_\_

D. Will you and your students need overnight accommodations? \_\_\_\_\_

E. Will you and your students need assistance with travel costs? \_\_\_\_\_

If the answer to this question is YES, then we need to include your name on a Travel Authorization. In addition, you will need to fill out a Travel Reimbursement form when you arrive at registration for the 2023 JSHS

The 2023 National JSHS event will be held at Founders Inn, **Virginia Beach, VA,**  
**Wed Apr 12-Sat Apr 15, 2023**

Return this form to

Timir Datta, Physics & Astronomy Dept., Room 404, Jones Physical Science Center,  
712 Main Street, 803 777 8105 Email: [datta@sc.edu](mailto:datta@sc.edu) & To Don Jordan [djordan@sc.edu](mailto:djordan@sc.edu)

**Research Papers will be due on Friday Dec 2, 2022**

A. Continued: Number of Teachers Attending:  
(Please list names of all teachers & email address)

Teachers

	Name (First Last)	Email
1.	_____	_____
	Repeat Lead Teacher	
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____

Note:

*The completed list of names of all observers will be due Wednesday, January 4, 2023*

This form should be emailed to Timir Datta ([datta@sc.edu](mailto:datta@sc.edu)) on or before Friday, Nov 18, 2022, with copy to Don Jordan ([djordan@sc.edu](mailto:djordan@sc.edu))

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# JSHS 2023 Guidelines to Submit a Research Paper

Submit your completed research paper to Dr. Timir Datta at [datta@sc.edu](mailto:datta@sc.edu)

The paper should be a minimum of 5-6 pages and a maximum of 20 pages (*double spaced*) (one side only) including appendices. **Deadline is Friday, December 2, 2022.**

**Please copy your research paper to Don Jordan [djordan@sc.edu](mailto:djordan@sc.edu)**

A recommended outline for the research paper includes:

1. Title page, or cover page stating the student's name, school address, and title of the research.
2. One page abstract.
3. Table of contents.
4. Introduction (including statement of problem).
5. Materials and methods.
6. Results (data or findings).
7. Discussion and conclusions.
8. Acknowledgements of major assistance received.
9. References, or literature cited.
10. Appendices (if necessary).

**Please read this section in its entirety.**

**Submit your research paper by email in PDF format only.**

Name the PDF as follows: Name, High School, Category.

**Example: John Doe, Lexington HS, Chemistry.** All papers must be complete and submitted **electronically** by **Friday, December 2, 2022.**

If you have a problem submitting your paper, please contact Dr. Timir Datta at [datta@sc.edu](mailto:datta@sc.edu)

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For more references See JSHS Website under “Regional Competitions” then “Rules of Competition”  
<http://www.jshs.org>

The DOD Junior Science and Humanities Symposia (JSHS) / Program Summary

The Junior Science and Humanities Symposia (JSHS) program is jointly sponsored by the United States Departments of Army, Navy, and Air Force, in cooperation with leading research universities throughout the nation.

The primary aims of JSHS are to promote original research and experimentation in science, engineering, and mathematics at the high school level, and publicly recognize students for outstanding achievement. The JSHS provides a forum for high school students to present the results of their original research. Students who participate in the Symposia also can meet and exchange ideas, interact with practicing researchers, and explore future academic and career opportunities.

The Department of Defense (DOD) JSHS program is run by National Science Teachers Association (NSTA) 1840 Wilson Blvd Arlington VA 22201. Andrea Malenya ([amalenya@nsta.org](mailto:amalenya@nsta.org)) (Phone 703 312 9246) and (web <https://www.jshs.org/>) is the Project Manager of JSHS programs. Taylor Embrey JSHS Project Specialist ([tembrey@nsta.org](mailto:tembrey@nsta.org))

***All papers will be reviewed for acceptance prior to assigning Judges to Read.***

***Please be sure your students have completed their research paper.***