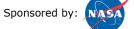


2018

https://www.globe.gov/science-symposium

















Julie Malmberg, PhD

malmberg@ucar.edu

Education, Outreach, and Technology Specialist GLOBE Implementation Office







GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM

- Online space for students to share and discuss GLOBE research with other students, STEM professionals, GLOBE community
- Open to all GLOBE students K-16
 - Rubrics by grade level





Volunteer Mentors and Judges

Region	# of Mentors
Africa	4
Asia and Pacific	7
Europe and Eurasia	8
Latin America and Caribbean	9
Near East and North Africa	5
North America	17
Total	50

Region	# of Judges
Africa	4
Asia and Pacific	4
Europe and Eurasia	14
Latin America and Caribbean	6
Near East and North Africa	5
North America	28
Tota	<i>I</i> 61









Student Projects:

Region	# of Projects
Africa	3
Asia and Pacific	20
Europe and Eurasia	26
Latin America and Caribbean	2
Near East and North Africa	62
North America	34
Total	147

Region	Country	# of Projects
Africa	Kenya	2
	Madagascar	1
Asia and Pacific	India	1
	New Zealand	1
	Taiwan Partnership	9
	Thailand	9
Europe and Eurasia	Croatia	8
	France	3
	Israel	7
	Italy	1
	Netherlands	4
	Poland	3
Latin America and Caribbean	Argentina	1
	Colombia	1
Near East and North Africa	Oman	14
	Saudi Arabia	48
North America	USA	34
	Total	147

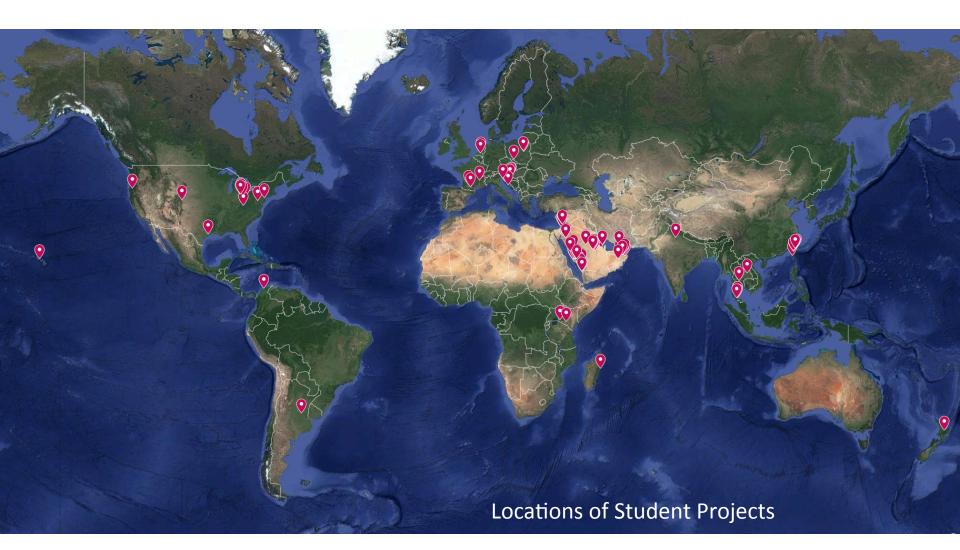














Drawing Winners

Student Project: "Why Doesn't Grass Grow on our Playground?"

Teacher: Marcy Burns School: Main Street Intermediate School Location: Norwalk, Ohio

Student Project: "How Do the Species of

Macroinvertebrates in the Boulder Creek Compare with

the Water Chemistry of the Stream?"

Teacher: Bill Meyers School: Alexander Dawson School Location: Lafayette, Colorado

Student Project: "Global Warming and His Actions in Maximal and Minimal Temperature Variations on the Continent"

Teacher: Michel Pedurand School: Lycée Bernard PALISSY Location: AGEN Aquitaine, France

Student Project: "Checking the Validity and the Quality of Wells' Water in Jabel Al-Mukkaber Area"

Teacher: Nour Bakri

School: Al Faruk Elementary School

Location: Jerusalem, Israel

Sponsored by: NAS







Why doesn't grass grow on our playground?

Organization: Main Street Intermediate School Student(s): Annabelle Ortner Grade Level: Middle (6-8) GLOBE Teacher: Marcy Burns Contributors: Presentation: View Document Optional Badges: Collaboration, Community Impact, Exploring STEM Careers Date Submitted: 04/03/2017

Implemented by: 💥 UCAR

View Research Report

Main Street Intermediate School is located in the uptown district of Norwalk, Ohio. For more than a decade a large part of the playground is bare. Grass will not grow. This creates a problem of limited space for students to play and dirt and mud gets tracked into the school building. It also looks very bad. This project will help solve the mystery. Soil samples were taken in the area where grass grows and in the area where grass does not grow. The soil texture and nutrients were compared for each area. After looking carefully at the data, I concluded that the soil has good nutrients and organic material to help grass grow. The problem seems to be that the soil does not hold water and drains very fast so the grass does not get enough moisture to grow. Additional work needs to be done to figure out what can be done to help the soil on the playground hold water longer to support a health crop of grass.





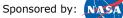
Timeline:

- 25 Oct 2017: Informational Webinar
- January 01 March 2018: **Reports Accepted**
- To Be Scheduled: Judging Webinar
- 18 24 March 2018: Judging Period
- 06 April 2018: Feedback and badges
- 06 April 2018: Live Drawing for stipends

GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM



ENTRIES DUE: 01 MARCH 2018 globe.gov/science-symposium









Merit Based Student Research Badge

- Students earn points
- No limit to projects that earn top ranking

Optional Badges

* STUDENT * RESEARCH GLOBE SCIENCE SYMPOSIUM 2017 2017



- Possible for students to earn up to 3 out of 6 additional badges
- Students describe how each badge was earned in their report document
- Students need to select badges when uploading project
- Minimum of **two** required to be part of the drawing









- Collaboration: Team members and their roles, student contributions, advantages of collaboration
- **Community Impact:** Describes how a local issue led to the research question and what impact the students have on their community
- Connection to a STEM Professional: Collaboration with a STEM professional and how it enhanced the student research
- Engineering Solution: An engineering solution to a real world problem based on student research
- Exploring STEM Careers: Understanding how student research relates to STEM careers
- Interscholastic Connection: Describes interscholastic or international collaboration and how it benefits the research

Sponsored by: NASA



Implemented by: 🗱 UCAR



Drawing

- Earn 4 star Student Research Badge AND at least two optional badges → entered into a drawing on 06 April 2018
- Projects drawn will receive funds to help offset the cost of attendance at the GLOBE Learning Expedition in Killarney, Ireland
- Four projects will be drawn:
 - Two international (\$2,000 USD each)
 - Two US (\$2,000 USD each)



Implemented by: **Start**

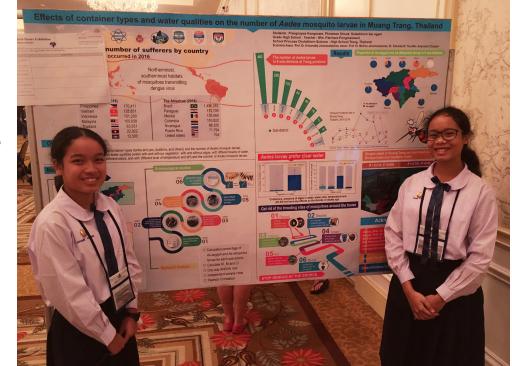




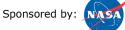


How to Enter

- Entries include:
 - Abstract
 - Research Report
 - Narrative on each badge completed
 - Presentation
 - Narrated Power Point
 - Video link
 - Scientific Poster
 - Photo Releases
 - GLE Connection (optional)



Implemented by: 💥 UCAR









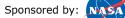
GLOBE Learning Expedition (GLE) Connection

Optional: GLE Theme: For students planning on attending the GLE in Killarney, Ireland, select which theme is the closest fit for your research project.

- Environmental Problems and Solutions
- Developing a Sense of Place: Connections between Observations and Measurements across Spheres



New Technologies and GLOBE











Presentations

Important to communicate science!

- Poster
- Narrated PowerPoint (or similar)
- Video link



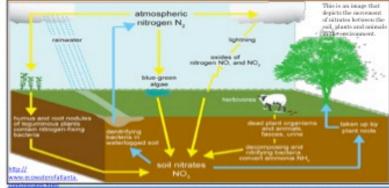


Nitrate Concentration of the Cove River Biome During a Six Month Period



Abstract

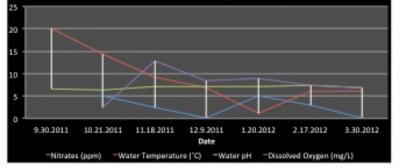
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Indicators of Pollution as Compared to Nitrate Levels

Indicators of Water Pollution as Compared to Nitrate Levels							
Dete	9,30,11	10.21.11	11.18.11	12.9.11	1.30.12	2.17.12	3.30.12
Water Temperature ('C)	29.2	14.5	9.2	7.0	1.1	6.0	6.0
Water pH	6.5	6.3	7.1	7.2	7.1	7.4	6.8
Disselved Oxygen (mg/L)	NA	2.5	12.8	8.5	9.0	7.4	7.0
Nitrates (ppm)	NA	5.0	2.5	0.0	5.0	3.0	0.0
Recent Precipitation	Yes; Heavy Raisfall on Previous Night	Yes; Constant Rainfall Throughout the Week	No	No	Yes; Snow on Previous Night	Yes; Rainfall on the Previous Night & Morning	Yes; Constant Rainfall Throughout the Week

Indicators of Water Pollution as Compared to Nitrate Levels



Conclusions

Future Directions

This experiment on the improved by testing and tiples around a Core. Here and definiting served a couple from one-have. Testing served the reliability of the experiment. Furthermore, user frequent testing and enhances the data by providing resourcements with energy increase and enhances the data by providing resourcements with energy advectation to determine which any assure a change in alterate levels and and the beneficial to include a none change in alterate levels and and the beneficial to include a none change in alterate levels the main and the beneficial to any assure a strange of the initiate levels in a manufacture of the straight of the straight of the straight of the main and endablishment rear the testing heating. If the initiate levels are assumed by left, there is vanid the endies to intercify the same of any pollution as remark.

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References

Acknowledgements

Problem Statement

Method/Procedure

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How to Enter

• Updated upload tool available online early 2018





Student Research Reports

*Required Fields

School / Organization* 🖗 🗿 Select

GLOBE Teacher* 🥯 💿 Select

Student(s)* (Required) 🥯

Additional Contributors 🥯

Grade Level*

Lower Primary (K-2)

\$

Report Title* (Required)

Report Description* (Required) 🥯

Report Date* (Required)

mm/dd/yyyy

Abstract or Summary* (Required) ᅇ

Upload Research Report* (Required)

Choose File No file chosen

Delete

Upload Report Thumbnail Image* 🗭

Select a new file

Sponsored by: NASA

→ROGRAM

Add Another Organization/Teacher

Thumbnail Alt Tag 🖗

Type of Student Research Report*

Standard Research Report

International Virtual Science Symposium Report

Presentation* 🥬

Link to Video URL 🥬

Or

Upload Poster Presentation Choose File No file chosen Delete

Photo Releases 🥬

Choose File No file chosen

Delete

Supported by: -





Optional Badges (maximum of 3 badges) 🕬

Collaboration

Community Impact

Connection to a STEM Professional

Engineering Solution

Exploring STEM Careers

Interscholastic Connection



Note: Reports are subject to review before being posted on the website.





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GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM

2018 GLOBE International Virtual Science Symposium

GLOBE is excited to host the 2018 GLOBE International Virtual Science Symposium (IVSS). The IVSS is a way for students from all GLOBE countries to showcase their hard work. With GLOBE, students learn the practices of science through hands-on investigations in their own communities, sparking their curiosity and interest in science. This often leads to inquiries that help solve real-world problems and further understanding of our global environment. Now it's time for your students to show the world what they've learned!

New information will be added frequently, so be sure to check back soon!

IVSS Informational Webinar:

Julie Malmberg from the GLOBE Implementation Office will host an informational webinar about the 2018 GLOBE International Virtual Science Symposium on Wednesday, 25 October 2017 at 1:00 pm MT/3:00 pm ET/19:00 UTC. If you are unable to attend, you can submit questions ahead of time to **malmberg@ucar.edu** and she will answer them during the webinar, which will be recorded. Plan to join via this URL on the 25th: https://zoom.us/j/217948903.

Timeline:

- Informational Webinar 25 October 2017 at 1:00 pm MT/3:00 pm ET/19:00 UTC (click on the URL to join at the time of the meeting)
- Reports accepted for submission 01 January 2018 to 01 March 2018
- Reports and presentations due 01 March 2018
- Judging webinar (TBD)
- Judging period 18-24 March 2018
- Feedback and virtual badges released 06 April 2018
- Live drawing for stipends 06 April 2018



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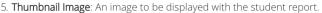
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2018 GLOBE International Virtual Science Symposium - Instructions

How and What to Submit:

Each student project should include the following components and should be submitted via the Virtual Science Symposium Report Tool. Make sure to have all the items prepared when accessing the tool.

- 1. Abstract or Summary: A 200 word or less description of the research project.
- Research Report: The complete research report as .PDF or .DOCX/.DOC. If including more than one language, make sure the report is just one file. Elements of the Research Report are described in the rubrics.
- 3. Badge Description: For any of the optional badges (you may select up to three), include a short summary of how each badge has been completed.
- 4. Presentation: Either the link to an uploaded video hosted on an online video sharing site (YouTube, Vimeo, TeacherTube, etc) or the presentation poster. Please do not upload the actual video, just the video link! Whether presented as a video, a narrated PowerPoint, or as a poster, the presentation should describe the student research. Videos should be 10 minutes or less.



- 6. Photo Release Forms: All individuals who appear in photos or video must send in a photo release. Save all the photo releases into one file.
- 7. Optional: GLOBE Learning Expedition (GLE) Theme: For students planning on attending the GLE in Killarney, Ireland, select which theme is the closest fit for your research project.
 - Environmental Problems and Solutions
 - Developing a Sense of Place: Connections between Observations and Measurements across Spheres
 - New Technologies and GLOBE

Scoring:

Information about scoring is provided on the **Rubrics** page. All projects will be scored by a team of judges from the GLOBE International STEM Professionals Network.

Every student project will receive a virtual Student Research Badge. Scored projects will receive between one and four stars on the Student Research Badge, with a 4-star research badge representing superior projects. Additionally, students have the option to complete up to three additional badges including collaboration, community impact, connection to a STEM professional, engineering solution, exploring STEM careers, and interscholastic connection.

Please note that if students choose to submit a report in a language that is not English, it will be shared with the community via the Virtual Science Symposium webpages, but it will not be scored. Only reports in English will be scored by the team of judges. However, students are encouraged to submit their reports in English and their first language (as one document).



GLOBE INTERNATIONAL



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International Virtual Science Symposium - Rubrics

To score the International Virtual Science Symposium projects, a team of scientists will use the rubrics attached on this page. Note that rubrics are listed by grade level. Students and teachers are encouraged to use these documents when creating their reports.

Rubrics

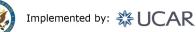
Kindergarten - 2nd Grades (Lower Primary) 3rd - 5th Grades (Upper Primary) 6th - 8th Grades (Middle School) 9th - 16th Grades (High School and Undergraduates)













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Frequently Asked Questions - 2018 GLOBE International Virtual Science Symposium

Q. My students have never participated in a science fair or symposia before. Can they still enter? A. Yes! Students with a wide variety of expertise participate in the IVSS. Whether this is your first research project or your 100th, we encourage you to participate. And, if you have any questions along the way, let us know.

Q. Why did the name change from a science fair?

A. A science symposium is a place for researchers to present and discuss their work. In order to reflect the overarching goal of students sharing their GLOBE research, we thought a science symposium better represented this event than a science fair.

Q. Can I submit my project in a language that is not English?

A. Yes, however, it will not be scored. We are only able to score projects submitted in English.

Q. Can I use Google Translate or another translating program to translate my project?

A. Yes, the judges will then be able to score your project. However, keep in mind that Google Translate often makes mistakes. If possible, have someone familiar with English read over the translation.

Q. I'm a science, technology, engineering, or math (STEM) professional. How can I be involved?

A. If you are part of the GLOBE International STEM professionals Network (GISN), we would love for you to help score the projects. If not, think about applying to be part of the network! If you are interested in scoring or mentoring projects, fill out the Volunteering form. If you are interested in being part of the GISN, send an email to help@globe.gov.

Q. What if the scientist or other STEM professional I want to work with is not part of the GLOBE International STEM professionals Network (GISN)?

A. That's fine! But, encourage the scientist or STEM professional to join the GISN.

Q. I teach 1st grade. Can my students also submit a project?

A. Yes! We have customized the scoring rubrics by grade level. Younger students will be scored differently than older students. We also have a **webinar about K-4 projects** and lots of **K-4 resources**.

Q. How do the badges work?

A. All students who submit a project will receive a virtual Student Research Badge. Scored projects will receive between 1 and 4 stars. Additionally, students can elect to be scored for five more optional badges. These badges, which are described in the rubrics, are collaboration, community impact, connection to a local or network scientist, international connection, and engineering solutions.

Q. Can I still get a badge if my project is not in English?

A. Yes! All student projects will receive a Student Research Badge, however only scored projects (those in English) will receive stars on their badges.

Q. Do I have to use GLOBE data in my project?

A Vas students must use GLOPE data and enter data into the GLOPE database.





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- **Mentors for Students**
- Shareable Images

GLOBE International Virtual Science Symposium Resources - 2018

Below are resources to help in the completion of your student research report. If you need any additional resources, please contact the Community Support Team at help@globe.gov.

Previous Virtual Conferences

- 2012
- 2013 2016
- 2017

Creating a Research Project

- Steps in the Scientific Process
- Worksheet to Evaluate Possible Research Questions
- How to Create a Student Research Report
- Sample Research Report
- Purdue Online Writing Lab Research and Citation Resources

Tips for preparing a presentation:

- Ten Secrets to Giving a Good Scientific Talk
- Poster Template PowerPoint | PDF (note: this includes the middle school and high school/undergraduate elements, modify as needed for primary school)

Data Resources:

- Setting Up Your Data Site
- Entering Measurement Data
- Retrieve and Visualize Your Data
- Advanced Data Access Tool

Webinars

Archived:

- Badges Informational Webinar (2017)
 - presentation slides
- K-4 (Lower Primary) Research Projects
 - PowerPoint slides (overview)
 - K-4 Resources
- Teacher Webinar: Conducting Field Investigations



Accumulative rainfall and types of clouds found in Papayompittayakom school at Phatthalung, Thailand



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Student Groups Looking for Mentors

We are trying something new this year! This is the place for mentors to find students with research questions or in need of some project help.

Teachers - Are you working with a group of students that would like a mentor? Please fill out the Google form below. Note that no student email addresses should be shared! Mentors should only contact the teachers to provide support for the student researchers. Once you have been contacted by a mentor, let us know at help@globe.gov and we'll remove the request from the list.

Mentors - The student groups below are seeking mentors. Please email them if you feel qualified to assist with their request. And, send us an email at help@globe.gov to let us know if you do contact them.

Teacher Name	Teacher Contact	Age-Level of Students	Preferred Language	What students need
Tek	tek.ggm AT gmail.com	Secondary School (Ages 14- 18, Grades 9- 12)	English	guidance on lab activity
Galeet Cohen	gmcohen AT philasd.org	Secondary School (Ages 14- 18, Grades 9- 12)	English	Datasets that they have access to, discussions about their own past research, support with project focus, experimental design, data analysis and statistics. Student interest is focused on climate change as it relates to hurricanes.
Natalie Macke	nmacke AT pascack.org	Secondary School (Ages 14- 18, Grades 9- 12)	English	Students are trying to combine Globe data combined with other available satellite data to make some inferences/predictions about Secondary Organic Aerosols. Help understanding the instrumentation and protocol associated with the aerosol protocol to help one of my students with her independent research project.
Hajar	a-hager2012 AT hotmail.com	Secondary School (Ages 14- 18, Grades 9- 12)	Arabic	
Valentina	ifmdes AT gmail.com	Middle School (Ages 11- 14, Grades 6- 8)	Russian, Ukrainian	Advice how to register for water and soil monitoring. How to fill in the protocols of these observations

< Share

Request for a Mentor

This is the place for teachers to request mentors for their student groups. Do your students have a question about a science topic? Need guidance on developing a project? Want to talk about careers in their research area? Request help here!

Teacher Name

Your answer

Teacher Email Address

Your answer

Age-level of Students

Lower Primary (Ages 5-8, Grades K-2)

Middle Primary (Ages 8-11, Grades 3-5)

Middle School (Ages 11-14, Grades 6-8)

Secondary School (Ages 14-18, Grades 9-12)

Undergraduate Students

Other:

Preferred Language

Your answer

What do your students need from a mentor? Please be as specific as possible.

Your answer

SUBMIT



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Volunteering for the IVSS

Fill out the form below to volunteer for the 2018 GLOBE International Virtual Science Symposium (IVSS). Mentors and volunteers are invited to participate in two ways:

1. **Scoring projects:** In March 2018, we need assistance scoring all of the student projects after they have been submitted. Scoring takes anywhere from one hour to several hours (depending on how much time you are able to commit). We will have an informational webinar (which will be recorded) in March and then judging will need to take place sometime between 18-24 March 2018. Judging consists of filling out a Google form with your scores and feedback for the project.

"Thank you for the opportunity to score the student research. These students give me hope for our future!" - GISN Scientist

We are hopeful that STEM (science, technology, engineering, and math) professionals, GLOBE alumni, teachers, graduate students, and other

interested community members will volunteer to assist scoring the projects. (Note - you do not need a GLOBE account to score projects.) The students really appreciate getting feedback on their projects in order to improve as researchers!

2. **Mentoring students**: We need volunteer STEM professionals to assist student researchers as they complete their research. Students may have questions about a science topic or the research process in general. While signing up does not guarantee that you will be contacted, we like to have a list of available volunteers for our students. Also, please view the "**Students Needing Mentors**" page for mentoring opportunities.

If you are interested in participating, please fill out the form below. We will contact judges in late February. If you have any questions, please send an email to **help@globe.gov**.

2018 GLOBE IVSS Volunteering

We have two opportunities for volunteers for the 2018 GLOBE International Virtual Science Symposium (IVSS).

1) If you are a Science, Technology, Engineering, or Mathematics professional, we invite you to mentor students. Provide information here for students to contact you. You can also contact teachers listed on the "Student Groups Looking for Mentors" page: <u>https://www.globe.gov/news-events/globe-events/virtual-conferences/2018-internationalvirtual-science-symposium/students-needing-mentors.</u>

2018 GLOBE IVSS Volunteering

We have two opportunities for volunteers for the 2018 GLOBE International Virtual Science Symposium (IVSS).

 If you are a Science, Technology, Engineering, or Mathematics professional, we invite you to mentor students. Provide information here for students to contact you. You can also contact teachers listed on the "Student Groups Looking for Mentors" page: <u>https://www.globe.gov/news-events/globe-events/virtual-conferences/2018-internationalvirtual-science-symposium/students-needing-mentors.</u>

2) We need volunteers to score projects entered into the GLOBE International Virtual Science Symposium. To take part in this, you will be provided with scoring information and assigned projects. More information will be available later in 2017 and early in 2018. But, you should plan on spending some time during the week of 18-24 March 2018 scoring projects.

We appreciate your interest in helping with the Science Symposium! If you have any questions, please contact <u>help@globe.gov</u> or see the Science Symposium webpage at <u>http://www.globe.gov/science-symposium</u>.

Name

Your answer

Your Email

Your answer

Your Location Include city, state (if applicable), country

Your answer

What is your involvement with GLOBE? Check all that apply.

GISN Member

GLOBE Alumni

GLOBE Teacher

Country Coordinator of Partner



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Share

 Virtual Science Symposia 	
	Mentors
2018 International Virtual Science Symposium	Looking for a mentoring scientist? These scientists have volunteered to help! Are you a STEM professional and want to mentor students? Fill out the form on our "Volunteer Sign-Up" page. Also, you can see student groups looking for
Instructions	mentors on the "Students Needing Mentors" page.
Rubrics	Africa Asia & Pacific Europe & Eurasia Latin America & Caribbean Near East & North Africa North America
FAQs	Africa Region
Resources	Sylivester Chaisamba; sylgster2000 AT yahoo.com; Dar Es Salaam,Tanzania; Atmosphere- Meteorology and Climate;
Students Needing Mentors	English
Volunteer Sign-Up	Asia and Pacific Region
Mentors for Students	Dr. Sunita Bal; sunitabal2009 AT gmail.com; India; Hydrosphere, Pedosphere- Chemistry; English
Shareable Images	
	Europe and Eurasia Region
	Ines Borrione; ines.borrione AT gmail.com; Biella, Italy; Hydrosphere- Oceanography; English, Italian
	Latin America and Caribbean Region

Javier Francario; francario AT stmary.edu.ar; Buenos Aires, Argentina; Atmosphere, Hydrosphere; Spanish and English

Erquinio Alberto Taborda Martinez; erquinio1974 AT gmail.com; Barranquilla, Colombia; Atmosphere- Cambio climático - variación de la temperatura; Español

Near East and North Africa Region

North America Region

Jeri Hallberg Harmon Griffin, M Ed; jeriibc AT gmail.com; El Paso, Texas, USA; Biosphere- Earth Science (citizen science); English

Gonzalo Gonzalez Abad; ggonzalezabad AT cfa.harvard.edu; Cambridge, MA, USA; Atmosphere- Air Quality Satellite Remote Sensing; English, Spanish, Catalan

Peder Nelson; peder.nelson AT oregonstate.edu; Portland, Oregon, United States; Biosphere- Land cover change using Landsat time-series; English



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Virtual Science Symposia

2018 International Virtual Science Symposium

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GLOBE INTERNATIONAL SCIENCE SYMPOSIUM STUDENT RESEARCH BADGE (ALL PROJECTS—OVERALL REPORT)

****	***	**	*	
 Report contains all of the criteria listed below and makes clear connections among them. The report is well organized, neat and well presented. The writing is clear and concise. The report contains the five elements required for acceptance, clearly labeled. Members of the project team respond to judges' comments with additional insights gained. 	 Report contains all of the elements and most of the criteria listed below and makes clear connections among them. The report is well organized, neat and well presented. The writing is clear. The report contains the five elements required for acceptance, clearly labeled. 	 Report contains most of the criteria listed below. The report is well organized. The report contains the five elements required for acceptance, clearly labeled. 	• Report contains the five elements required for acceptance, clearly labeled. (1, 2, 3, 5 & 8)	• Report submitted, but does not contain all five elements required for acceptance.



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ADDITIONAL BADGES (UP TO 6-OPTIONAL)

B1. Collaboration	B2. Community impact	B3. Connecting to a STEM Professional	B4. Interscholastic connection	B5. Engineering solution	B6. Exploring STEM Careers
All team members are listed, along with clearly defined roles, how these roles support one another, and descriptions of each student's contribution. The descriptions clearly indicate the advantages of the collaboration.	The report clearly describes how a local issue led to the research questions and makes connections between local and global impacts.	The report clearly describes collaboration with a scientist that enhanced the research methods, contributed to improved precision, and supported more sophisticated analyses and interpretations of results.	The report describes a carefully planned interscholastic or international collaboration that describes rationales for data collection in different regions and the advantages of comparing results.	The report describes an engineering solution to a real-world problem, based on student- generated sources of evidence, and describes the potential impact of the solution on the environment.	The report describes how the project is related to a STEM career or profession, including the ways the data gathered, skills gained, and results might be used.

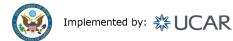




Project elements for HS and Undergrad (bold=required)

- 1. Title
- 2. Abstract or Summary
- 3. Research Question(s)
- 4. Introduction and review of the literature
- 5. Research Methods
- 6. Results
- 7. Discussion
- 8. Conclusion
- 9. Bibliography/Citations
- 10. Badges Selected







Project elements for 6–8 (bold=required)

- 1. Title
- 2. Abstract or Summary
- **3.** Research Question(s)
- 4. Introduction
- 5. Research Methods
- 6. Results
- 7. Discussion
- 8. Conclusion
- 9. Bibliography/Citations
- 10. Badges Selected





Project elements for 3–5 (bold=required)

- 1. Title
- 2. Summary
- **3.** Research Question(s)
- 4. Introduction
- 5. Research Methods
- 6. Results
- 7. Discussion
- 8. Conclusion
- 9. Bibliography/Citations
- 10. Badges Selected







Project elements for K–2 (bold=required)

- 1. Title
- 2. Summary
- **3.** Research Question(s)
- 4. Introduction
- 5. Research Methods
- 6. Results
- 7. Discussion
- 8. Conclusion
- 9. Badges Selected





Questions

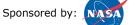
- Do my students have to enter a project into the IVSS in order to attend the GLE?
- No! All GLOBE students are welcome to the GLE. Just make sure to register early!
- Does entering a project into the IVSS mean I am going to attend the GLE?
- No, all GLOBE students are welcome to enter projects into the IVSS, regardless of planned attendance at the GLE.
- Do my students have to write their reports in English?
- If the students want their project scored, then yes. We don't have enough judges to score projects in other languages. Videos can be in the students' first language and captioned in English.





Questions

- Who can judge projects?
- We put a minimum of one STEM professional on each project. Other judges can be teachers, graduate students, community members, or alumni.
- Do judges have to be part of the GLOBE International STEM Network (GISN)?
- No! If a scientist or other STEM professional doesn't have a login for globe.gov, we have a generic "STEM professional" account he or she can use.
- Why aren't the instructions translated?
- We need volunteers to translate them! If you are able to translate any of the materials, I will add them to the website.







Questions

- Do I have to pick optional badges to be eligible for the drawing?
- Yes! All students receive the "Student Research" badge. But, students must select at least TWO additional badges to be eligible for the drawing. Also, they should describe how they earned the badge(s) in their report.
- My students have never participated in a science fair or symposium before. Can they take part?
- Yes! We have a lot of resources available for new participants. Please join us!
- Can younger kids enter a project?
- Yes! We have grade-specific guidelines for students starting from Kindergarten to undergraduates. We also have a webinar all about K-4 (lower primary or ages 5-8) projects.





Find info Online

https://www.globe.gov/science-symposium

GLOBE.gov →News & Events → Meetings & Symposia→ Virtual Science Symposia





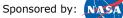
Timeline:

- 25 Oct 2017: Informational Webinar
- January 01 March 2018: **Reports Accepted**
- To Be Scheduled: Judging Webinar
- 18 24 March 2018: Judging Period
- 06 April 2018: Feedback and badges
- 06 April 2018: Live Drawing for stipends

GLOBE INTERNATIONAL VIRTUAL SCIENCE SYMPOSIUM



ENTRIES DUE: 01 MARCH 2018 globe.gov/science-symposium











Questions? Comments?

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