Appendix 1: Candidate Trainer Application

- **Candidate Trainer Applicant Name:** Christopher J. Sherman **Date Application Submitted:** 1/8/24
- **GLOBE Region:** Select GLOBE Region **Country of Residence:** United States of America
- **Candidate Trainer Contact Information:** christopher.j.sherman@nasa.gov (601)365-9323
- **Candidate Trainer Email:** sgtcjsherman@yahoo.com
- **Investigation Area of Trainer Application:** Atmosphere
- **Documents are not required for submission but may be attached when pertinent.**

Candidate Trainer Applicant Name: Christopher J. Sherman				
Summary of Evidence Needed to Qualify as Candidate Trainer				
Critical Areas of Trainer Candidate Qualification	**Science**	**Education**	**Adult Learning**	**Understanding GLOBE**
Knowledge and Skills Required	Making Earth Systems / Environmental Science relevant to educators. Understanding of the protocol subject area and sphere content.	Pedagogical techniques for teaching children or youth in the classroom and in the field.	Techniques for teaching and engaging adults.	Active participation in GLOBE and an understanding of the GLOBE Program including its vision, mission, and values.
Critical Area: **Science**	Knowledge and skills to be shown regarding making Earth Systems/Environmental Science relevant to educators. Understanding of the protocol subject areas and interrelated sphere content.			
Evidence: Science Document understanding of GLOBE science content that may include, but is not limited to: • Protocol Training Certificate • Degree • Certification • Coursework • Research Experience • Other	Describe (list) evidence submitted. (Submit attachments such as certificates, screen shots, etc., when pertinent.): Completed April 29, 2016-GLOBE (Teacher Certification) E-Protocols (Atmosphere)-All Complete (Training Record) (Biosphere)-All Complete (Hydrosphere)-5 Complete (Pedosphere)-1 Complete Bachelor of Science Degree (Biology and Chemistry) Mississippi Teaching License (Expiration 06/30/2027) Biology, Chemistry, General Science, Physics I have been an Environmental Biology teacher and brought students to the Student Research Symposia for three years. (Team Image Spreads) My undergraduate research was in environmental botany/Invasive Chinese Tallow 2010. I currently work for NASA ASTRO CAMP Community Partners and am looking to expand GLOBE interest with our Facilitators.			

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Critical Area: **Education**	Knowledge and skills to be shown regarding pedagogical techniques for teaching children or youth in the classroom and in the field.
Evidence: Education Documentation of education experience that may include but is not limited to: • Experience School teaching • Experience working at youth camps, and/or community-based organizations • Coursework • Other	Describe (list) evidence submitted. (Submit attachments such as certificates, screen shots, etc., when pertinent.): I taught science for Pearl River Public School District 2010-2017. (Introduction to Biology, Biology, Human Anatomy and Physiology, Environmental Science, Geology, Chemistry, AP Chemistry, and Physics) I am working for NASA ASTRO CAMP Community Partners as a curriculum and digital learning education specialist. (Articles attached) We train educators to use NASA Science curriculum in formal and informal settings. (Boys & Girls Club, YMCAs, Library Systems, STEM programs, FIRST Robotics teams, school systems, and after school programs.)
Critical Area: **Adult Learning**	Knowledge and skills regarding techniques for teaching and engaging adults.
Evidence: Adult Learning Documentation of adult learning experience that may include but is not limited to: • Experience teaching adults • Coursework • Certification in adult learning • Other	Describe (list) evidence submitted. (Submit attachments such as certificates, screen shots, etc., when pertinent.): I present NASA content at monthly Educators Professional Development trainings for NASA ASTRO CAMP Facilitators. I present Subject Matter Expert presentations for libraries (Example: Los Angeles Public Library Network) I offer special trainings for facilitators on NASA current releases and opportunities. (Example: Eclipse Training) I offer and present during facilitators training for over 300 NASA ASTRO CAMP locations throughout the United States and abroad. I am the NASA ASTRO CAMP Community Partners Curriculum and Digital Learning Education Specialist. I train adults to teach children NASA Science content.

Appendix 1: Candidate Trainer Application

Critical Area: **Understanding GLOBE**	Active participation in GLOBE and an understanding of the GLOBE Program including its mission and values.
Evidence: Understanding GLOBE Documentation of active GLOBE participation that may include but is not limited to: • Protocol certification from workshop or e-Training • Attendance at a GLOBE workshop (led by someone else), • Submitted data entry • Profile page created • News submitted online • Participation as a judge for IVSS • Participation in a GLOBE Annual International or Regional meeting • Other: **Candidates must have experience in at least 3 of these 7 activities.**	Describe (list) evidence submitted. (Submit attachments such as certificates, screen shots, etc., when pertinent.): Completed April 29, 2016-GLOBE Teacher Certification E-Protocols (Atmosphere)-All Complete (Biosphere)-All Complete (Hydrosphere)-5 Complete (Pedosphere)-1 Complete Attendance at GLOBE Student Research Symposium 2023 at Tyler, TX Cooperation with the INFINITY Science Center to host GLOBE Southeast Regional SRS. (Currently Collaborating with INFINITY, GLOBE, and NASA ASTRO CAMP Community Partners) I have promoted the distribution of GLOBE material in ACCP monthly facilitators newsletters. GLOBE curriculum and content is currently being added into the ASTRO CAMP Community Partners Facilitators Guide for 2024 for all ACCP collaborating partners. I have drafted and released ASTRO CAMP facilitator GLOBE stories through NASA Science Mission Directorate.

If known, please suggest a Mentor Trainer with whom you'd like to work: Dr. Jodi Haney and Dr. Jennifer Bourge
Mentor Trainer contact information:

jhaney3@mac.com, usglobecc@gmail.com

If evidence is sufficient and the application is complete, the Country Coordinator, Regional Coordination Office Reviewer, and/or the GLOBE Education Working Group will work with the new Candidate Trainer to identify the Mentor Trainer with whom to complete requirements.

The GLOBE Program

Global Learning and Observations to Benefit the Environment

Teacher Certification

Christopher James Sherman

obtained the background needed to lead a class in performing field and lab protocols and is hereby certified as a Teacher of the GLOBE Program. As a certified GLOBE Teacher, this educator is qualified to guide students of the GLOBE Program in the practice of observing GLOBE environmental conditions, recording of GLOBE measurements, reporting data to the GLOBE database, and using GLOBE Mapping and Graphing utilities to visualize data. These activities will be pursued in the interest of achieving the objectives of the GLOBE Program mission to promote the teaching and learning of science, enhance environmental literacy and stewardship, promote scientific discovery and inspire the next generation of global scientists.

Dr. Tony P. Murphy
Director
GLOBE Implementation Office

April 29, 2016
Date

Sponsored by: NASA Supported by: NSF NOAA Department of State Implemented by: UCAR

GLOBE Educator Training Records

Name: Christopher James Sherman

View Training Certificate

Protocol Training Records | eTraining Modules

Search...

Show 100 entries

Module	Sphere	Completed On
ELECTRICAL CONDUCTIVITY	Hydrosphere	2023/11/09
WATER TEMPERATURE	Hydrosphere	2023/08/15
WATER TRANSPARENCY	Hydrosphere	2023/08/15
INTRODUCTION TO HYDROSPHERE	Hydrosphere	2023/08/14
MOSQUITO LARVAE Using GO MHM App	Hydrosphere	2023/08/14
Carbon Cycle Modeling	Biosphere	2023/07/12
Carbon Cycle Introduction	Biosphere	2023/07/10
Non-Standard Site Carbon Cycle Protocols	Biosphere	2023/07/10
Standard Site Carbon Cycle Protocols	Biosphere	2023/07/10
BIOMETRY - GRAMINOID, TREE AND SHRUB HEIGHT (Five Methods)	Biosphere	2023/07/06
GREEN UP-GREEN DOWN - Grass Green-Down	Biosphere	2023/07/06
GREEN UP-GREEN DOWN - Grass Green-Up	Biosphere	2023/07/06
GREEN UP-GREEN DOWN - Tree and Shrub Green-Down	Biosphere	2023/07/06
GREEN UP-GREEN DOWN - Tree and Shrub Green-Up	Biosphere	2023/07/06
BAROMETRIC PRESSURE	Atmosphere	2023/06/30
PRECIPITATION - Snow	Atmosphere	2023/06/30
RELATIVE HUMIDITY	Atmosphere	2023/06/30
SURFACE TEMPERATURE	Atmosphere	2023/06/30
AEROSOLS	Atmosphere	2022/11/08

Module	Sphere	Completed On
AIR TEMPERATURE	Atmosphere	2022/11/08
CLOUDS	Atmosphere	2022/11/07
INTRODUCTION TO ATMOSPHERE	Atmosphere	2022/11/07
PRECIPITATION - Rain	Atmosphere	2022/11/07
INTRODUCTION TO PEDOSPHERE - Getting Ready to Study Soil	Pedosphere (Soil)	2018/02/19
BIOMETRY - GRAMINOID, TREE AND SHRUB HEIGHT - Measuring Tree Height on Level Ground - Simplified Clinometer Technique	n/a	2016/04/29
BIOMETRY - Canopy Cover and Ground Cover	Biosphere	2016/04/29
BIOMETRY - Graminoid Biomass	Biosphere	2016/04/29
BIOMETRY - Tree Circumference	Biosphere	2016/04/29
INTRODUCTION TO GLOBE	n/a	2016/04/29
INTRODUCTION TO BIOSPHERE	Biosphere	2016/04/27
LAND COVER CLASSIFICATION - Land Cover Sample Site Description	Biosphere	2016/04/27

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Originated by at 1/4/2024 2:04 PM

MISSISSIPPI DEPARTMENT OF EDUCATION

Educator Information

Name: Christopher Sherman

License Number: 237656

Highest Degree Level: A
Effective Date: 12/10/2010

Active Licenses

Description	Endorsement	District / Institution	Issued / Renewed On	Effective Date	Expiration Date
* SEL: Educator License	181 - BIOLOGY (7-12) 185 - CHEMISTRY (7-12) 188 - GENERAL SCIENCES (7-12) 189 - PHYSICS (7-12)	N/A	05/17/2022	07/01/2022	06/30/2027

* Renewal Cycle: 07/01/2022 - 06/30/2027. Begin earning renewal credits on 07/01/2022.

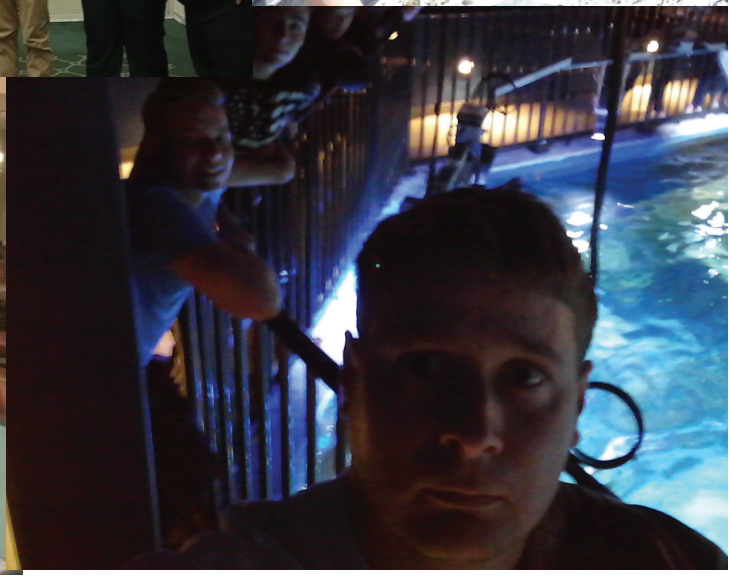
License History

Description	Endorsement (Effective Date)	District / Institution	Status
EC: EMERGENCY CERTIFICATE	189 - PHYSICS (7-12) (05/11/2016)	N/A	Expired
SEL: Educator License	627 - AP CHEMISTRY (11/04/2013)	N/A	Expired
SEL: Educator License	189 - PHYSICS (7-12) (06/05/2017) 181 - BIOLOGY (7-12) (01/05/2011) 185 - CHEMISTRY (7-12) (01/05/2011) 188 - GENERAL SCIENCES (7-12) (01/05/2011)	N/A	Expired
SEL: Educator License	181 - BIOLOGY (7-12) (01/05/2011) 185 - CHEMISTRY (7-12) (01/05/2011) 188 - GENERAL SCIENCES (7-12) (01/05/2011)	N/A	Expired

2016 Globe Team
PRCHS

2017 Globe Team
PRCHS

2018 GLOBE Team
PRCHS



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ASTRO CAMP®

Eligible organizations must be Youth Service Organizations, Schools, Universities, Museums, or Libraries, who serve students grades K-12 and are open to a close collaboration with the NASA ASTRO CAMP® Community Partners (ACCP) Program Education Team.

NASA ACCP Education Specialists will provide:

- ACCP Digital Facilitators Guides
- EPD for Facilitators/Educators
- Activity supply list
- NASA online resources
- Printable materials
- Online support by NASA ACCP Education Team

Community Collaborating Organizations will provide

- Program Lead or Educator
- Support staff
- Facilities
- Supplies/materials
- Management of program
- Program summary data

A program lead, educator, or facilitator must take part in a 1 or 2 day Educational Professional Development (EPD) provided by NASA Education Specialists in order to be designated as an official NASA 2024 ASTRO CAMP® Community Partners Program.

NASA ACCP is an opportunity for all Youth Service Organizations to bring NASA STEM Engagement-Science Mission activities to grades K-12 in their own community. The ACCP virtual/hybrid professional developments are provided free for educators, leaders, and facilitators using the uniquely developed 2024 ACCP Facilitators Guide for support, making NASA STEM lessons, resources, and challenges accessible to all, while relying on proven NASA STEM ASTRO CAMP® Methodology.

NASA ACCP consists of student-centered, standards based STEAM activities that utilize NASA resources to give educators, leaders, and facilitators everything they need for engaging, high-quality STEM learning experiences for all students. You can help students foster career dreams of tomorrow and develop life-changing goals through Next Generation Science, Math, and Technology/Engineering skills by bringing NASA ACCP TO YOUR COMMUNITY PROGRAM SITE!

NASA ACCP includes a multitude of STEAM activities for selection and requests a minimum of 10 NASA ACCP activities to be delivered over a selected time with options for NASA Real World Mission Challenges. The collection of your final program data surveys to be returned to the ACCP Team at the end of each event to build your successful portfolio with NASA ACCP annual reports.

Kelly Martin-Rivers:
kelly.e.martin-rivers@nasa.gov

Maria Lott:
maria.lott@nasa.gov

https://www.nasa.gov/stennis/stem-engagement-at-stennis/nasa-accp

2024

SMD-SciAct Infrastructure

2 MIN READ

NASA’s ASTRO CAMP Community Partners Reach 3rd/4th Grade Students

NASA Science Editorial Team

NOV 01, 2022

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NASA's ASTRO CAMP Community Partners Reach 3rd/4th Grade Students

NASA's ASTRO CAMP Community Partners Reach 3rd/4th Grade Students

On October 20th, NASA's ASTRO CAMP® Community Partners (ACCP) team provided materials and virtually led a hands-on aeronautics activity introducing third and fourth grade students to the forces of flight and the engineering and design process. This was done as part of a recent "Lights On After School" event put together for all six Boys and Girls Clubs of the Gulf Coast, a collaboration with NASA, Million Girls Moonshot, and Afterschool Alliance that included prerecorded Astronaut footage of Jessica Watson and actress Keke Palmer.

NASA's ASTRO CAMP® Community Partners is supported by NASA and is part of NASA’s Science Activation Portfolio. Learn more about how Science Activation connects NASA science experts, real content, and experiences with community leaders to do science in ways that activate minds and promote deeper understanding of our world and beyond: https://science.nasa.gov/learners

https://www.bgcgulfcoast.org/loa ↗

Student participants of Boys and Girls Clubs of the Gulf Coast virtually join NASA's ASTRO CAMP® Community Partners team to build and launch X-Planes on Oct. 20. Image Credit: BGCGulfCoast

3 MIN READ

NASA ASTRO CAMP® Sets New Record While Providing STEM Opportunities

NASA Stennis Communications

NOV 03, 2023

RELEASE S23-061

Stennis Space Center

Another year equals another record as NASA's ASTRO CAMP® initiative reached across the nation and beyond to help a broad spectrum of students learn about NASA and STEM (science, technology, engineering, and mathematics).

A NASA ASTRO CAMP® participant engages with a NASA STEM (science, technology, engineering, and mathematics) activity at the Arizona Science Center in Phoenix, Arizona.
Arizona Science Center

The NASA ASTRO CAMP® Community Partners (ACCP) program surpassed previous milestone marks during fiscal year 2023 by partnering with 331

community sites, including 31 outside the United States, to inspire youth, families, and educators. Participants included students from various population segments, focusing on students from underrepresented groups, accessibility for differently-abled students, and reaching under-resourced urban and rural settings.

“We honor the schools and organizations that have created programs to inspire and encourage young people who may be interested in a future career in STEM,” said Kelly Martin-Rivers, principal investigator for NASA’s ACCP. “Many STEM programs are not recognized for their success, dedication, and mentorship for underrepresented students. ACCP partner sites provide a minimum of 30 hours of NASA STEM activities, and we are proud to honor these programs for bringing quality STEM programs and open access to students everywhere.”

In addition to reaching communities across the country during the most-recent fiscal year, the NASA ACCP program partnered with international sites in Qatar, Ecuador, Mexico, India, Ukraine, and Spain. Overall, more than 115,000 students took part in the program, a more than 300% increase from the 35,000-plus who participated the previous year.

A NASA ASTRO CAMP® participant shows his handmade satellite at the Arizona Science Center in Phoenix, Arizona.
Arizona Science Center

A NASA ASTRO CAMP® participant looks at a model of NASA's powerful SLS (Space Launch System) rocket at an event in Sugarland, Texas.
STEM Pioneers

An additional 74,454 students took part in special STEM activities, also an increase from the previous year's total of almost 44,000. ACCP trained 1,160 facilitators during the fiscal year as well.

As part of the NASA Science Mission Directorate Science Activation program, ACCP continues making strides to bridge disparities and break barriers in STEM. A breakdown of participants from the most-recent year includes 30,828 African American students, 24,285 Hispanic students, 6,928 Asian students, and 1,300 Native American students. Half (51%) of all participants were elementary students, with the remainder split among middle school (28%) and high school (21%) students. A bit more than half (53%) of participants were male.

ACCP activities offer real-world opportunities for students to enhance scientific understanding and contribute to NASA science missions, while also inspiring lifelong learning. The ACCP theme was "2023 NASA Science… Discovering Our Future Together!" The program featured materials and activities related to NASA science missions, astrophysics, heliophysics, Earth science, and planetary science.

The unique methodology teaches students to work collaboratively to complete missions and provides trained community educators to implement

the themed NASA modules, developed by the ACCP team, seated at NASA's Stennis Space Center near Bay St. Louis, Mississippi.

ASTRO CAMP began at NASA Stennis as a single one-week camp in the 1990s. Since then, it has developed into several adaptable models for schools, museums, universities, libraries, and youth service organizations, enabling a worldwide expansion.

For more information about becoming a NASA ASTRO CAMP Collaborative Community Partner, contact: Kelly Martin-Rivers at kelly.e.martin-rivers@nasa.gov or 228-688-1500; or Maria Lott at maria.l.lott@nasa.gov or 228-688-1776.

For more on the ASTRO CAMP Collaborative Community Partner Program, visit: https://www.nasa.gov/stennis/stem-engagement-at-stennis/nasa-accp/.

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LAST UPDATED	Nov 03, 2023
EDITOR	NASA Stennis Communications
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LOCATION	Stennis Space Center

Related Terms

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NASA ASTRO CAMP® Community Partners Hits the Road Before the Holidays

NASA Science Editorial Team

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NASA ASTRO CAMP® Community Partners Hits the Road Before the Holidays

NASA ASTRO CAMP® Community Partners Hits the Road Before the Holidays

The NASA ASTRO CAMP® Community Partners (ACCP) team hit the road the week before Thanksgiving 2022 to reach youth with NASA Science Activation activities through several collaborative partnerships.

The Bogalusa YMCA in Louisiana, better known as "the Y", partners with ACCP to bring authentic NASA STEM/Science Activation activities directly to their students. On November 18th, ACCP made an in-person appearance to surprise and inspire students at the Y during their weekly Science, Technology, Engineering, & Mathematics (STEM) Night event. Youth participants had no idea they were getting a visit from NASA, thanks to George Corkern, a trained NASA partner, who had collaborated with ACCP in secret to give the students a surprise experience they would be sure to go home talking about. This event kicked off with a STEM activity called On-Target, which challenges students to figure out how to deliver supplies to the representative surface on Mars. This engineering design challenge allowed 20 students to apply out-of-the-box thinking with hands-on activities. Marbles rolled across the floor as participants learned to work as a team, consider ideas, test their designs, and make changes to improve their On-Target delivery devices with support from ACCP education specialists.

The week did not end there. On November 19th, during a Science Explo event, ACCP's planetarium gave an all-immersive showing of the Dawn of Orion video for 233 guests at Tangipahoa Parish Library-Hammond Branch. Children, parents, family, and community leaders watched the Orion Spacecraft pass directly over their heads via video projection inside the black, igloo-shaped planetarium. NASA's real Orion Spacecraft had just launched earlier that week and was en route to the moon while these

spectators in Hammond, LA watched NASA ACCP's rendition of that same historic flight.

At the end the week, on November 22nd and 23rd, ACCP helped young people learn about coding and ultraviolet light with more than 250 visitors of STEM Quest Innovation Days at the Children's Museum of St. Tammany. During this activity, children from pre-Kindergarten through early grade school ages coded their initials into binary bracelets and created ultraviolet detection bracelets with ACCP prior to the Thanksgiving holiday.

NASA's ASTRO CAMP® Community Partners program is supported by NASA and is part of NASA's Science Activation Portfolio. The ACCP team collaborates with community programs to bring NASA Science Activation activities to communities in fun and engaging ways, inspiring youth (with a focus on reaching underserved and under-represented groups) by sharing NASA Science. Learn more about how Science Activation connects NASA science experts, real content, and experiences with community leaders to do science in ways that activate minds and promote deeper understanding of our world and beyond: https://science.nasa.gov/learners

Bogalusa YMCA participants work on mission patches as George Corkern, the trained NASA partner, explains that each individual brings their own special skills to the team on Nov. 11in Louisiana. The brochure lists NASA and the Planetarium as major attractions in the Hammond Science EXPLO event. Image credit: Facebook/Bogalusa YMCA

Details

LAST UPDATED Jul 23, 2023

EDITOR