




**AMS 2017 - Teacher Workshop**  
 Saturday, January 21, 2017 - Seattle, WA

**AGENDA -12/7/2016**

TIME	ACTIVITIES	DESCRIPTION
7:15 - 8:00 am	Get Workshop Badge & Light Breakfast	
8:00 - 8:05 am	Opening Remarks & Logistics <i>Danny Mattox, University of Oklahoma</i>	
8:05 - 8:30 am	Keynote Speakers: <i>Raj Pandya, Program Director, Thriving Earth Exchange</i>	
8:30 - 9:00 am	STEAM, AMS Education Program / DataStreme <i>Vicky Gorman, AMS Board of Education</i>	Vicky will provide an update on the AMS Education Program: K-12 Teacher Professional Development.
9:00 - 9:10 am	<b>BREAK</b>	
9:10 - 9:40 am	"Weather Data Deluge - Teaching Visualization for STEM Learning" Mark Hyer, WeatherBug	According to the June 2016 edition of Money magazine, the most valuable career skills are related to statistics, data, analysis, and forecasting. Using weather data and visualization software, Mark will provide examples that will help your students to take the first steps towards building these coding skills.
9:40 - 10:40 am	<b>Classroom Ready Activity &amp; Discussion</b>  Sarah McCrea, NASA LaRC	Sarah has exciting news this year! S'COOL is integrating with GLOBE and creating an updated cloud observation protocol focused on satellite data matching and comparison (bringing the S'COOL component to GLOBE). By the time of the workshop, the new system should be up and running, ready for educators to explore!
10:40 - 11:40 am	<b>SHARE-A-THON</b>	We will host a variety of organizations simultaneously that will share their educational resources and activities.

11:40 - 12:30 pm	<b>LUNCH will be provided!</b>	
12:30 – 2:30 pm	<p style="text-align: center;"><b>Classroom Ready Activity &amp; Discussion</b></p>  <ul style="list-style-type: none"> <li>❖ <b>Climate Change: A Human Health Perspective</b> (Dana Haines, NIEHS)</li> <li>❖ <b>GLOBE Mosquito Larvae Protocol</b> (Rebecca Boger / Elena Sparrow/John Moore, GLOBE)</li> </ul>	Participants will learn potential impacts of climate change on human health and how to develop an activity for students to collect, sort, identify, and count mosquito larvae. A variety of sampling strategies can be used, depending on educational objectives and types of mosquito larval habitats sampled.
2:30 – 3:30 pm	<b>SHARE-A-THON</b>	We will host a variety of organizations simultaneously that will share their educational resources and activities.
3:30 – 4:00 pm	<p style="text-align: center;"><b>Classroom Ready Activity &amp; Discussion</b></p>  <p style="text-align: center;"><b>Build a Weather Spacecraft</b> Denise Henry, Ball Aerospace</p>	In this activity teachers will gain a basic understanding of the technology behind weather science. Following this presentation, Denise will present a “Build-a-Spacecraft Activity” in the share-a-thon. This activity is an effective way to teach kids the ubiquitous elements of all spacecraft and can be tailored for Earth or space science lessons.
4:00 – 4:30 pm	<p style="text-align: center;">“A Meteorologist in Your Classroom Every Day: NOAA Weather Radio” Bruce Jones, Midland Radio Corporation</p> <p style="text-align: center;">Become a CoCoRaHS Observer Frank Niepold (NOAA) &amp; CoCoRaHS Representative</p> <p style="text-align: center;"><b>PLUS</b> Door Prizes and a Gift for each Teacher</p>	<p>Although cell phones have everyone’s attention today, students should be reminded that in any “big event”, the cell system slows, clogs, and crashes. Therefore, we need to stress the importance of utilizing the official voice of the National Weather Service: <i>NOAA Weather Radio</i>. Any system can fail, so it’s important to have multiple sources of official weather information.</p> <p>A CoCoRaHS (Community Collaborative Rain, Hail &amp; Snow Network) representative will demonstrate the use of the CoCoRaHS rain gauge and how students can become official observers!</p>
4:30 – 5:00 pm	Workshop Evaluation and Wrap up	
5:00 pm	<b>Workshop Ends</b>	

## **Share-a-Thon:**

AMS Pre-College Chapters - Learn how to Start a Pre-College AMS Chapter at your School

AMS Education

National Weather Service

NOAA Climate.gov

NASA

Yarker Consulting

WeatherBug

NIEHS

Ball Aerospace

University of Washington

and more ....