

## ACS NCW 2015 Boy Scout's Autumn Festival-Cape Cod Science Café 1015

**Dr. Jack Driscoll and Jennifer Maclachlan**

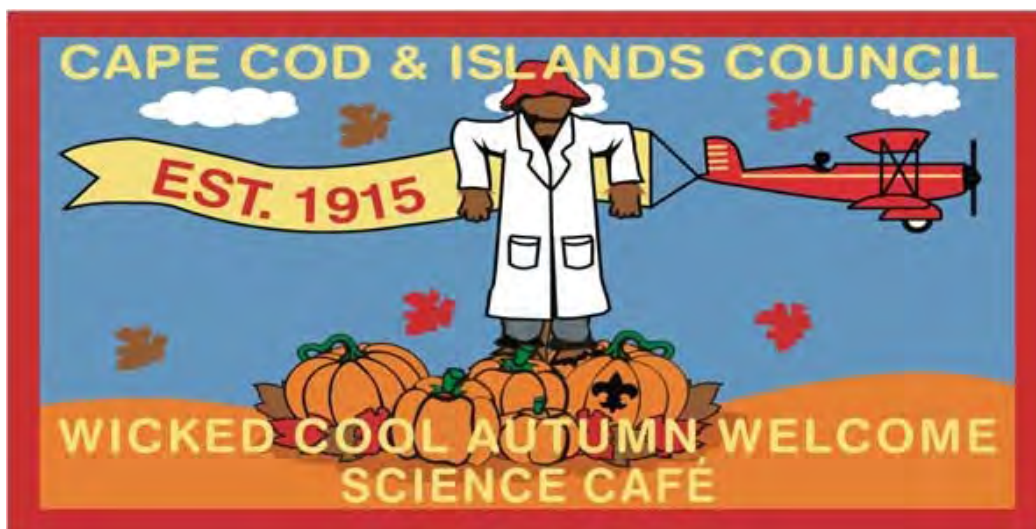
Northeastern Section of the American Chemical Society, Cape Cod Science Cafe and STEM Journey Committee

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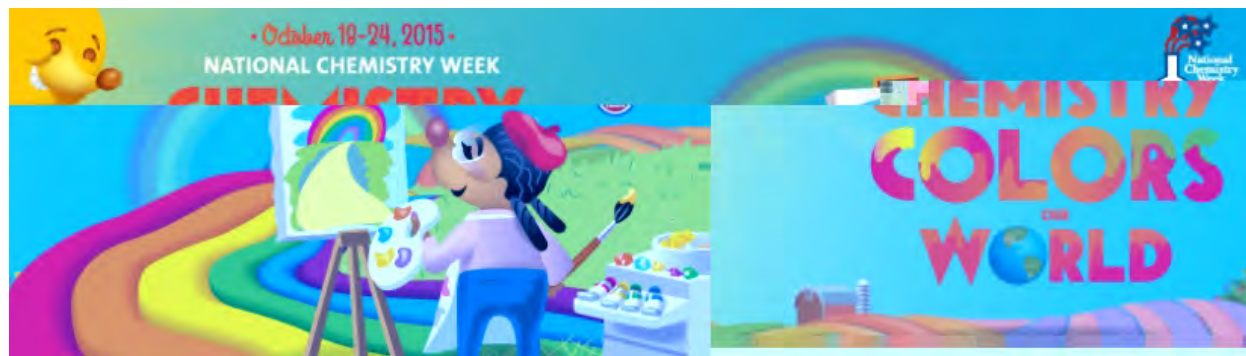
On Oct. 25, 2015 (1-5 PM), a NESACS Cape Cod Science Café was held at Camp Greenough, Yarnouth, MA in conjunction with the Wicked Cool Autumn Festival of the Cape and Islands Council of the Boy Scouts of America (C&ICBSA). There were more than 300 in attendance

The event consists of hay rides carving pumpkins, building your own bat house fishing on Lake Greenough, archery, visit with a blacksmith, creating cider with an antique cider press and experiencing STEM and Scouting.



NESACS has worked with the C&I C BSA to integrate STEM into the Boy Scout's activities. We decided to promote this event as part of the ACS National Chemistry Week (NCW), and opened the event to the public so that the people of Cape Cod can experience the ACS NCW. The theme of the ACS NCW this year is Chemistry Colors our Worlds as shown below

<http://www.acs.org/content/acs/en/education/outreach/ncw.html> . We have selected a number of experiments that produce color to match this year's theme.






**Pumpkin Carving**








**Building Bat Houses**

**NCW Table of Experiments at NCW 2015**

Contact/Comments	Company/Organization	Experiment
<p>Peg LaGendre</p> <p>Children loved to plan in this sandbox. They could convert a mountain into a lake or ocean just by moving sand</p>	<p>Cambridge Science in the Streets, Project Manager</p>	<p>Augmented Reality Sandbox in color (<a href="http://goo.gl/STWaCx">http://goo.gl/STWaCx</a> ) programmed to match color of the line that it is following</p> 

<p>Patrick Gordon Patrick used the Briggs-Raucher Oscillating Color Reaction that changes color back and forth from yellow to deep blue as it continues to be stirred,</p>	<p>NESACS &amp; Cape Cod Community College- Science Prof.</p>	<p>Briggs-Raucher Oscillating Color Reaction and UV visible light and fluorescence (<a href="https://www.youtube.com/watch?v=ehlzNln90-I">https://www.youtube.com/watch?v=ehlzNln90-I</a> )</p> 
<p>Nancy Gifford Used the lipids in regular milk and food coloring to show a continuous mixing of color. They even made a a mixture that looked like Cape Cod. The kids had fun adding the food coloring and trying to make pictures.</p>	<p>Harwich Public Schools Middle School Science Teacher</p>	 <p>Milk with food color (blue, red, yellow, green) added makes wonderful continuous change of colors <a href="https://goo.gl/aORCMo">https://goo.gl/aORCMo</a></p>
<p>Marilyn Cole Rhis was a real hit with my Grand daughter who has been playing with her colored corn starch every day for the past two weeks.</p>		<p>Children made colored silly putty with corn starch</p>

		
<p>Paul Reibach</p>	<p>NESACS &amp; Smithers Pharma Scientist/Boy Scout troop leader</p> 	<p>Adventures in Chromatography (colors) using the Scientific Method  <a href="https://goo.gl/WHIJsJ">https://goo.gl/WHIJsJ</a></p> 
<p>Jennifer &amp; Abby Maclachlan  A gift card encouraged many of the children to enter the poem contest. They loved the chemistry ambassador sashes</p>	<p>NESACS &amp; PID Analyzers, LLC, Manager</p>	<p>UV light demonstrates color change and need for suntan lotion, chemistry ambassadors, chemistry poems by young visitors, Chemistry Ambassadors, Poem Contest  <a href="http://goo.gl/66wvTG">http://goo.gl/66wvTG</a></p> 
<p>Craig</p>	<p>Suffolk University, Electrical</p>	<p>Power generation demonstrating "hands</p>

<p>Christianson Children enjoyed cranking to light LED's, or create a high energy spark. Use of solar cells to power a Viking boat ...</p>	<p>Engineering Prof./ Boy Scout troop leader</p>	<p>on” ways to generate power- wind, solar, hand cranked power lights LED's generates sparks ,</p> 
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We also posted videos on youtube for the above chemical reactions in color. On youtube, search “ACS NCW 2015 + Boy Scouts Wicked Cool Autumn Festival”