

# Meet the STAR Monitoring Staffer: Lea Rubin



STAC Quarterly Meeting  
December 10, 2014



# RIITE







Mick Stadler, founder and CEO of Cerion Energy, right, with RIT trustee Kenneth Reed.

“Cerion’s technology can help the trucking industry meet new EPA policies requiring reduced diesel particulates and emissions.”

<http://www.cerionadvancedmaterials.com/>  
[http://www.rit.edu/news/umag/winter2007/20\\_energy.html](http://www.rit.edu/news/umag/winter2007/20_energy.html)

# Introduction to Hydrogen Technology

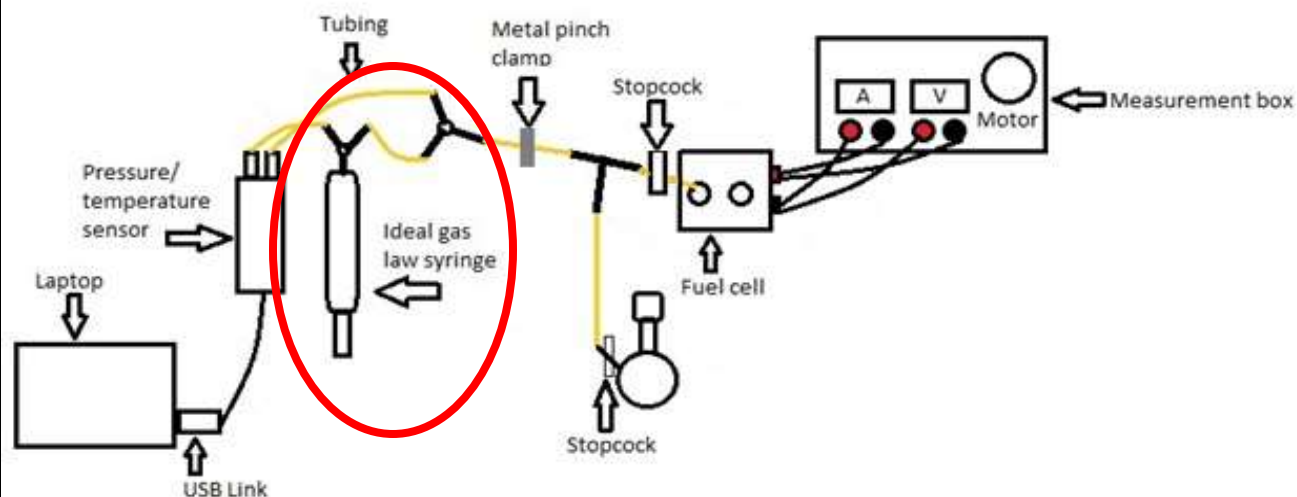
Roman J. Press  
K. S. V. Santhanam  
Massoud J. Miri  
Alla V. Bailey  
Gerald A. Takacs



WILEY

## New Laboratory Course

Khot, A., Rubin, L., Young, J., Allston, T., Takacs, G. Physical Properties of Gaseous Hydrogen Experiment for an Undergraduate Clean Energy: Hydrogen/Fuel Cells Laboratory Course, Journal of Chemical Education. 2014 (submitted)







## RIT Leadership Institute & Community Service Center



Jewish & Arab  
Youth Conflict  
Resolution

2005-2006

The School  
for  
Sustainable  
Development

2009





# Manna Food Center



# Aquaponics



# Composting



# CHESAPEAKE BAY FOUNDATION

*Saving a National Treasure*



Riparian Buffer Plantings

Oyster Restoration

Native Tree Nursery

Aquaponics

Grant Awarded: Biodiesel  
Processor

CRC Staffer

New

# STAR

Information  
Management & GIS  
Support

Integrated  
Monitoring Networks  
Workgroup

Data Integrity  
Workgroup

Explain Ecosystem  
Condition and  
Change Teams

Status and Trends  
Team

Climate Change  
Workgroup

Modeling Workgroup

# Building and Sustaining Integrated Networks (BASIN)

## Science and Monitoring will be the foundation of the new Watershed Agreement



The Chesapeake Bay Watershed Agreement is focused on restoring and conserving the Nation's largest estuary and its watershed. There are goals for sustaining fish and wildlife, restoring habitats and water quality, reducing the effects of toxic contaminants, protecting healthy watersheds and lands, and making them all more resilient to climate change.

## Method of Discovery: The Global Seminar Series

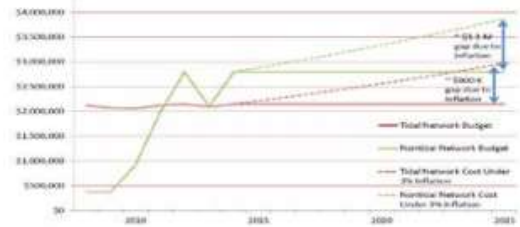
The Scientific, Technical Assessment, and Reporting Team invited monitoring programs from around the globe to share their knowledge and experiences with monitoring. As a means to gain insights from monitoring programs old and new, scaling diverse depths, populations, and size, representatives from monitoring programs were asked a series of significant questions. The questions addressed monitoring objectives and network design, operational and funding models, plus innovations, success, and challenges they've faced. Insights gained from the series of monitoring programs are being assessed for their potential and applicability in the Chesapeake.

## Intelligent Monitoring:

Global examples of citizen science, innovation, and partnerships to inform Chesapeake restoration

# Innovative Monitoring Approaches Workshop

... pressures, and expanding partnerships. Unpredictable... growing concern given the multiple demands on tax dollars. Inflation... the cost of monitoring over a decade. The CBP wants to expand partnerships but understands the challenges of aligning resources and gathering comparable information.



Authors  
William C. Dennison, Scott Phillips, Mark Bennett, Peter Tango, Lea Rubin

Online Availability  
This publication is also available electronically at: [www.chesapeakebay.net/basin](http://www.chesapeakebay.net/basin)

Science Communication, Design, & Layout  
Lea Rubin, Chesapeake Research Consortium at the Chesapeake Bay Program

Front Cover Photo © Chesapeake Bay Program



Climate Change Workgroup  
Kick-off Meeting

Tomorrow, Dec. 10<sup>th</sup>, 1-3PM

# Professional Development

# The Potential Influence of Climate Change on Submerged Aquatic Vegetation (SAV) Trends in the Chesapeake Bay

Lea Rubin, *Chesapeake Research Consortium*

Ana L. Hernández Cordero, *University of MD Center for Environmental Science*

Peter Tango, *US Geological Survey*

Coastal Estuarine Research Federation  
San Diego, California  
November 7, 2013



Building and Sustaining  
Integrated Monitoring  
Networks in the Chesapeake  
Bay and Basin  
**BASIN**

Lea J. Rubin<sup>1</sup>, Peter Tango<sup>2</sup>, William C. Dennison<sup>3</sup>, Mark Bennett<sup>4</sup>, Scott Phillips<sup>5</sup>

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CEER, New Orleans, July 30, 2014

Coastal and Estuarine Research  
Federation 2013

Chesapeake Watershed Forum 2011,  
2012, 2014

Joint Aquatic Sciences Meeting 2014

Conference on Ecological and Ecosystem  
Restoration 2014

Maryland Water Monitoring Council  
Conference 2014

Atlantic Estuarine Research Society 2014

# Future Aspirations



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# Photo Credits

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Chesapeake Bay Trust

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seoresults4u.com

askmen.com

# Contact Information

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A close-up photograph of a hand with the index finger pointing upwards. The hand is in sharp focus, while the background is blurred, showing other people's hands also raised in a crowd. The lighting is bright and natural.

**Questions ?**

**Advice ?**