### Co-Creating Community Science for Local Impact

E

Natasha Udu-gama

14 November 2018

She/her/hers @ThrivingEarth



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HRIVING EARTH

Communities & Scientists Working Together

AGU 100 Advancing Earth and Space Science

## Loading Dock Science



Community science welcomes and values new skills, perspectives, and people

Community science collaborates with communities who have been historically underserved by science and contributes to their capacity to use science

REACT

MAYOR

IF

IT'S SO

AN

Community science engages with other ways of knowing and expands the practices of science



Chelsea, Massachusetts

ng Climate Vulnerability As

more

Fugene, Oregon

Setting Ambitious Greenhouse Gas Target

more

Hermosa Beach, California

more

Renewable Energy Options

THE PARTY NAMES

Brookline, Massachusetts

more

mmunity Resilience to Extreme He

Ethiopia, Hom of Africa Ing Water Availability and Use

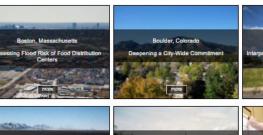
more

Hayward, California

Gauging the Impact of Sea Level Rise on Wellands

more

Centre and Network



Colorado

more

more

Colorado Encouraging Air Quality Data Collection and Education Optimizing Local Thresholds for Flash Flood Prediction more

> 314 Global ening Up the World's Real-Time Air Qu Data

more

more Granite City, Illinois Improving Local Air Quality

Brandywine, Maryland

ting Local Air Quality Data to Supp Rollution Monitoring

more

Denver, Colorado

sing Unhealthy Air in Homes

n

more

more

100-100 Kennedale Texas Kentucky Las Vegas, Nevada Evaluating Water Quality and Flood Risk Using Local Data to Improve Water Management ssing Drought Risk and Vuln

more

#### **Communities and scientists working together**

Colebrook, New Hampshire

more

AL PROPERTY.

Evanston, Illinois

more

Jackson, Wyoming

Protecting a Crucial Stream

more

1984

ing an E Plan

11

ing Groundwater Dioxane to Mitig Marl Pond Degradation



Scope **begins** with community priorities

Share is open source

Match is a **vetted** volunteer

AGU 100 ADVANCING EARTH AND SPACE SCIENCE

Solve aims for **impact** 

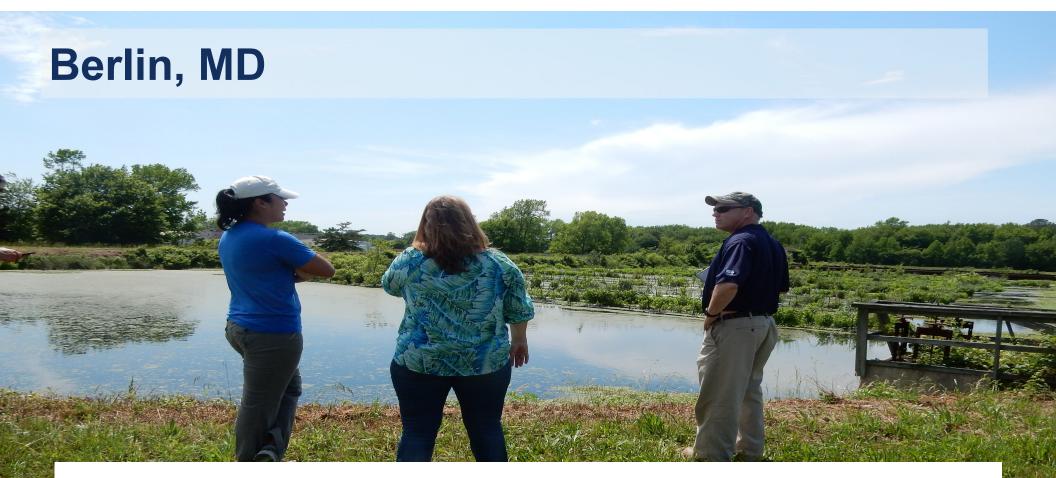


SCOPE

SALAN PART

MAICH

SOLVE



**Impact:** Town able to provide justification to not spend the recommended \$7-8m to remediate the ponds.

#### Scope:

### Define a project that uses Earth and space science to advance community priorities

What strengths does the community have? What are the community's challenges and priorities? How do they connect to Earth and space science? How could a scientist contribute?



Leaders at the Core of Better Communities



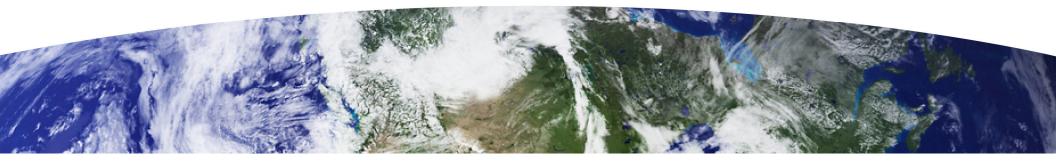
#### Match:

# Recruit a pro-bono scientist to co-lead project with community leader(s)

What kind of scientist is needed for this project? What skills should they have?



Dr. Ellen Silbergeld Johns Hopkins University







#### **Doug Parks voted** Park cleanup price tag prohibitive president, Jacobs

SKIN CANCER SCREENING Call For an September 22, 2017 9am-3pm

By Josh Davis



and council to give us some direc-He said the main building had not

Ny Josh Davis Asscate Editor (Aug. 31, 2017) The cost to return he lagoons at Berlin Falla park to Sch Timel Ander Schward, and Schward a **VP of OPA Board** By Josh Davis

By Josh Davis Associate Editor (Aug. 31, 2017) Doug Parks was elected president of the Ocean Pines Association Board of Directors last Friday during the first official assem-bly of the new board. Cheryl Jacobs was elected ive president

"The ground is valuable for poten tial future activities, even if you de

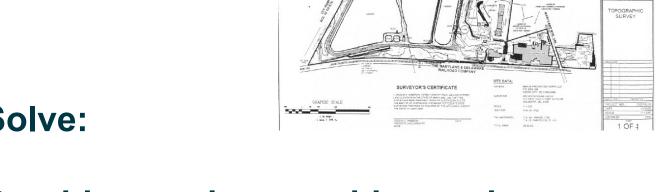


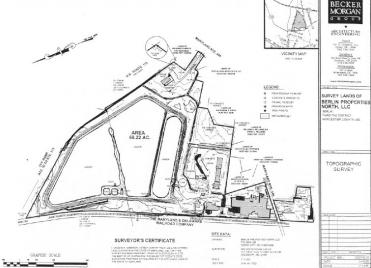


#### Provide ongoing coaching and connections to make an impact



ion executive secre-"I thank my board See WILLIAMS Page 6 See OPA Page 5







#### Share:

### **Celebrate successes and exchange methods**





### Improving Science's Use and Practice through Community Science Partnerships

For scientists:

- Working with people, on shared priorities, in the places they live work and play.
- Offering our science with humility and honoring what others bring.

#### **Community Science Values**

- community context & local knowledge
- trust & partnership
- Collaborative planning and action
- People, process, results
- Community impact







### **Benefits of Community Science**

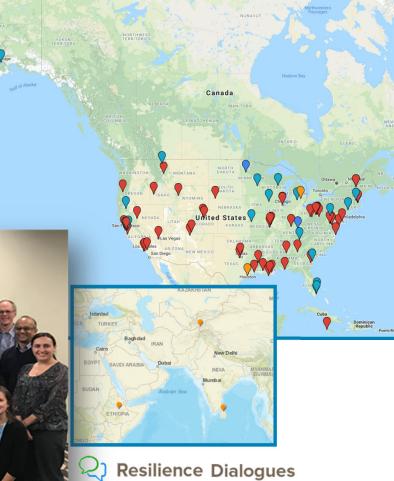


- Inspires innovative research
- Engages diverse communities
- Develops new skills
- Advances science learning
- Increases support for science
- Cares for the Earth
- Pays it forward



### Over 89 Projects; 30 completed Impacting over 12 million people







Join us at



Thriving Earth Exchange Project Launch Workshop

Wed. 12 Dec. 10am – 3pm

Celebrating Community Science with Thriving Earth Exchange

Tues., 11 Dec. 6:30 – 9:00 p.m.

Community Science 101: Practical Tips and Real-World Strategies for Engaging with Communities Tues. 11 Dec. 10am – 12pm Thurs.13 Dec. 10am – 12pm

Advancing Equity Through Community Science

Thurs. 13 Dec. 2 – 4pm

**Community Science Clinics:** 

- Mon. 10 Dec. 9-11am
- Tues., 11 Dec. 2-4pm.
- Fri. 14 Dec. 9-11am

For locations and to RSVP go to: https://thrivingearthexchange.org/fall-meeting-2018/



## Thank You

www.thrivingearthexchange.org @Thriving Earth <u>Nudu-gama@agu.org</u>



#### ADVANCING EARTH AND SPACE SCIENCE