

Managing Water: New Tools for Sustainable Development

AAAS Envisioning Tomorrow's Earth, Seattle WA 2020

Resources

Sera L. Young: "A Simple Indicator of Global Household Water Experiences"

- Household Water Insecurity Experiences project: hwise.org, hwise-rcn.org
- Personal: serayoung.org
- Twitter: [@profserayoung](https://twitter.com/profserayoung)
- Contact: sera.young@northwestern.edu
- Publications:
 - [Protocol for scale development](#)
 - [Validation and final scale](#)
 - [One-pager policy brief](#)
 - [Primer on scale development](#)
 - [HWISE field implementation manual](#)
 - [Household water insecurity and infant feeding](#)
 - [Household water insecurity and food insecurity](#)

Julius B. Lucks: "Rapid and Low-Cost Synthetic Biology Technologies for Monitoring Water Quality in the Field"

- The Lucks Laboratory at Northwestern University: luckslab.org
- Twitter: [@LucksLab](https://twitter.com/LucksLab)
- Contact: jblucks@northwestern.edu
- Videos:
 - ["Searching through biology to build our toolbox"](#) – Luyi Cheng ([@luyi_cheng](https://twitter.com/luyi_cheng), PhD Candidate, Lucks Lab)
- Publications (all ACS Synthetic Biology):
 - ["Point-of-use detection of environmental fluoride via a cell-free riboswitch-based biosensor."](#)
 - ["Design of a transcriptional biosensor for the portable, on-demand detection of cyanuric acid."](#)
 - ["PLANT-Dx: A molecular diagnostic for point of use detection of plant pathogens."](#)
- Pre-prints (BioRxiv):
 - ["Rapid, low-cost detection of water contaminants using regulated in vitro transcription"](#)
 - ["Design and optimization of a cell-free atrazine biosensor"](#)

Claire Chase: "Policy Framework to Promote Action Towards Water Security"

- Contact: cchase@worldbank.org
- Twitter: [@clairelchase](https://twitter.com/clairelchase)
- Key publications:
 - [Achieving water-related SDGs](#)
 - [Water and nutrition framework](#)