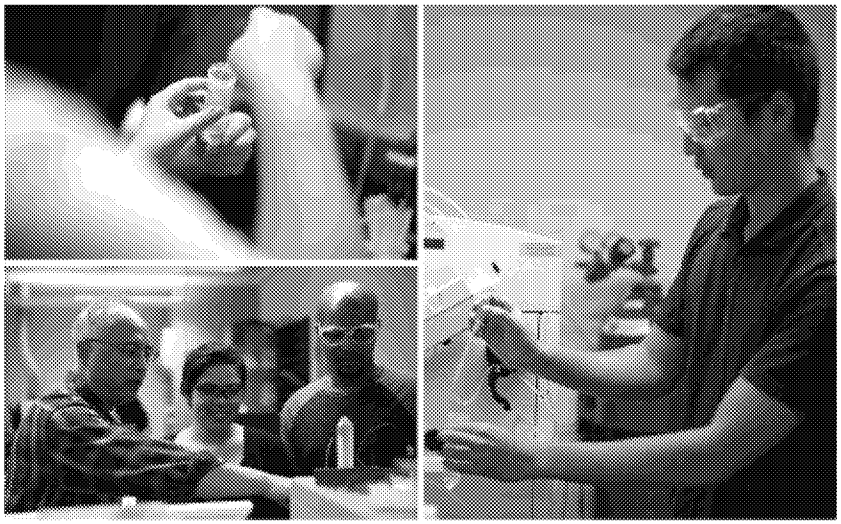
Master of Science in

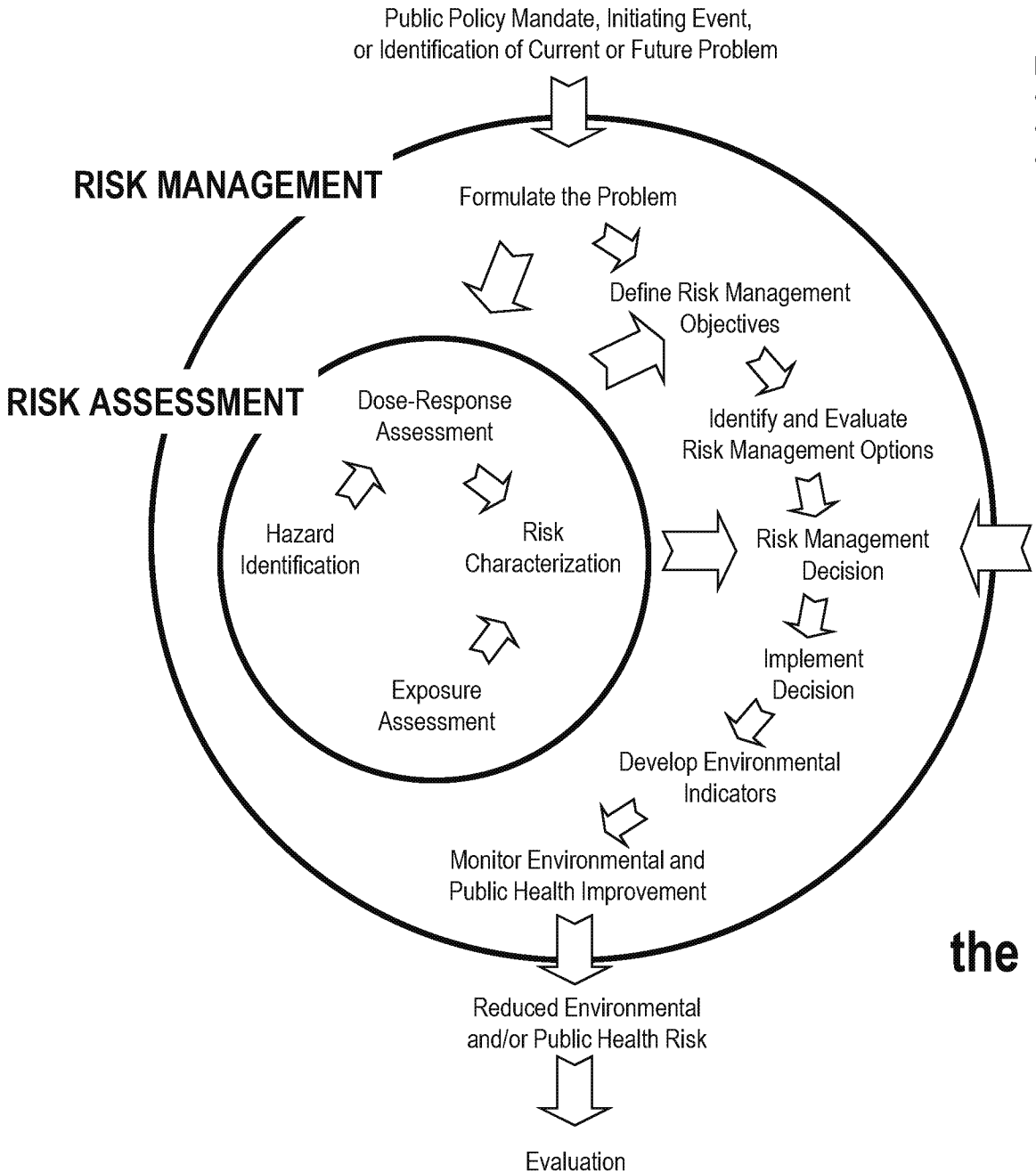
Environmental Metrology and Policy



GEORGETOWN UNIVERSITY

NIST
National Institute of Standards and Technology
U.S. Department of Commerce

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Risk Management Options

- Prescriptive standards
- Performance-based standards
- Non-regulatory approaches
  - Action levels
  - Health advisories
  - Labelling
  - Consumer and other information
  - Voluntary consensus standards
  - Industry recommended practices
  - Third-party certification

- Statutory and Legal Considerations
- Policy Considerations
- Enforcement Considerations
- Political Considerations
- Social Factors
- Economic Factors
- Public Health Considerations
- Environmental Considerations

If you were the EPA Administrator

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Student Internship and Capstone Project

- Through a program-funded summer internship followed by guided independent research, students will experience the unique real-world practices of evidence-based environmental policymaking.
- Students will be matched with mentors from EPA and/or NIST on a current policy issue and begin a 10-week summer internship NLT the 1st Monday of June.
- At the end of the internship, students will submit a written proposal that summarizes the research results of their internship and provides a research plan for guided independent research (Capstone Project) in the 2nd year of the EMAP program.
- The results of the student's Capstone Project will be shared in both an oral presentation and final report/paper.

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PFAS Screening of NIST Environmental Reference Materials

Goal: To screen existing NIST environmental reference materials (e.g. sludge, drinking water, house dust, sediments) for per- and polyfluoroalkyl substances (PFAS) in order to produce high resolution mass spectra for the identification of common PFAS.

Instrumentation: LC, LC-MS, LC-UV, and LC-HRMS

Skills Needed:

- Previous chemistry lab experience which includes sample extraction and sample analysis.
- Organic chemistry.
- Beginner level R programming.

EPA Connection: PFAS Action Plan https://www.epa.gov/pfas.

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If you are interested in a free, one-year EMAP student intern…

- Submit a one paragraph description of the project you would propose the intern to do.
  - Please include any special skills you expect the student intern to already have.
  - Please include any connection(s) to an ongoing NIST effort.
- Send this paragraph to me (teichman.kevin@epa.gov) by 12 April 2019.
- EMAP faculty from Georgetown, NIST, and EPA will review all of the EPA , NIST, and EPA/NIST proposed projects and our students' interests.
- We will then provide you a list of interested candidates for you to meet to see if there is a "match" by 19 April 2019.
- More information on the EMAP program can be found at https://emap.Georgetown.edu#

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