

National Center for Environmental Research





NCER Vision Statement

NCER engages the scientific community to advance research for sustainable solutions to human health and environmental challenges

- Public nonprofit institutions/organizations
- Private nonprofit institutions/organizations
- –State and local governments
- -Federally Recognized Indian Tribal Governments
- –U.S. territories or possessions

* Located in the U.S.



NCER Mantra

Mantra

Researching a sustainable tomorrow today

U.S. Environmental Protection Agency



NCER - What We Do



- Fund high-quality research by the nation's leading scientists and engineers to improve EPA's scientific basis for decisions on national environmental issues
 - Science to Achieve Results (STAR) Grants
 - Small Business Innovation Research (SBIR)
 - People, Prosperity and the Planet (P3)
 - Fellowships



Grant Competitions

- Create and implement competitions for proposals in research topics derived from the ORD Strategic Plan and from research plans for specific topics developed by ORD and Agency priorities
 - -The STAR Grants Program is the primary way that EPA competitively funds university cooperative research.
 - In FY14, NCER supports 328 active and newly awarded STAR grants, totaling approximately \$320 million.



Supporting National Programs and Agency Priorities ACE

CSS

SSWR

Collaborating with Agency partners to support extramural research in support of National Research Programs



CSS Overarching Priorities

- CSS overarching priorities are to enable EPA to:
 - Address impact of existing chemicals, materials/products across the lifecycle.
 - Anticipate impacts of new chemicals,
 materials/products across the lifecycle.
 - Enable consideration and evaluation of complex interactions of chemical biological systems to support Agency decisions.



2016 - 2019 CSS Topics

- -Chemical evaluation
 - Methods for chemical prioritization
- -Complex systems Science
 - Systems Based approach to understand exposure, effects and adverse outcomes
- -Lifecycle analytics
 - LCA and sustainable chemical design and use
- -Solution-Based Translation and Knowledge **Delivery**



Recent STAR Grants: Chemical Evaluation

- Susceptibility and Variability in Human Response to Chemical Exposure – 1 award
 - Texas A&M: "Toxicogenetics of tetrachloroethylene metabolism and toxicity; Ivan Rusyn
- 2. New Methods in 21st Century Exposure Science 5 awards
 - University of California San Francisco: A Non-targeted Method for Measuring Multiple Chemical Exposures;
 Tracey Woodruff
 - Virginia Polytechnic Institute and State University: Rapid Methods to Estimate Exposure to SVOCs in Indoor Environments; John C. Little
 - University of Michigan: 3-dimensional Micro-gas Chromatography Device for Rapid and Sensitive Indoor Chemical Exposure Analysis; Xudong Fan
 - Duke University, Boston University: Residential Exposure of Young Children to SVOCs; Heather Stapleton
 - University of California Davis: Tracking Semivolatile Organic Compounds Indoors; Deborah Bennett



Questions?

For more information:

NCER Director: Jim Johnson, johnson.jim@epa.gov, 703-347-8200

NCER Deputy Director: Mary Ellen Radzikowski, radzikowski.maryellen.@epa.gov, 703-347-0242

Science Advisor: Darrell Winner, winner.darrell@epa.gov, 703-347-0210

Applied Science Division:

Bryan Bloomer, bloomer.bryan@epa.gov, 703-347-8040

Technology & Engineering Division:

Acting Division Director, Darrell Winner, winner.darrell@epa.gov, 703-347-0210

Health Research & Fellowship Division:

Sylvana Li, <u>li.sylvana@epa.gov</u>, 703-347-8048

Peer Review Division and Research Support Division:

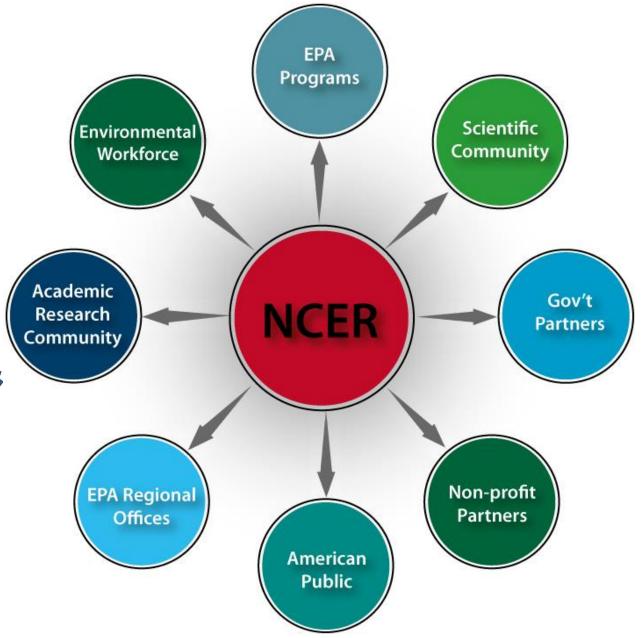
James Gentry, gentry.james@epa.gov, 703-347-8093

Communications:

Kelly Widener, widener. Kelly@epa.gov, 703-347-0168



Engaging
through
Interagency
Agreements &
Partnerships





STAR Grants Process



Each phase of the grants process provides opportunity for engagement and collaboration from NPD teams and subject matter experts from other applicable EPA offices.



NCER Programs

- People, Prosperity, and the Planet (P3)
- Fellowships
 - -Greater Research Opportunity (GRO) Fellowship
 - STAR Fellowship
 - -Fellowship Partnerships
 - American Association for the Advancement of Science (AAAS)
 - Association of Schools and Programs of Public Health (ASPPH)
 - EPA Marshall Scholarship Program