# Research Translation in Action:

# Building Relationships

# between

# SRP and NCEH/ATSDR Scientists

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# Perspective from the jointly managed

## Agency for Toxic Substances and Disease Registry

(Superfund hazardous waste sites)

http://www.atsdr.cdc.gov/

&

## National Center for Environmental Health

(exposures from all sources)

http://www.cdc.gov/nceh/

# *SRP Purpose*

Fund multi-disciplinary research which

Environmental Managers & Risk Assessors
(such as ATSDR Scientists)

Can USE to make decisions

about Superfund & other Hazardous Waste Sites.

To Facilitate Research Translation,

NIEHS Encourages SRP grantees to form Partnerships with

# NCEH/ATSDR

ATSDR State Cooperative Agreement Partners

Region 4 EPA

SO

We have Prompt Access to SRP Research

SRP Grantees have Feedback on our RESEARCH Needs

# Building Relationships between NCEH/ATSDR Scientists & SRP Grantees

WE can't work with YOU

IF

WE don't know YOU….

(OR know your expertise)

# A Research Translation Strategy that Works

## Seminar & Networking Opportunity at NCEH/ATSDR

NCEH/ATSDR Scientists

Get to Know

SRP grantee scientists

So we learn what Tools & Expertise SRP has to HELP US

# SRP Grantee Visits NCEH/ATSDR for a Day

## Seminar

## Networking Lunch with Staff

## Office Hours with Staff

# Seminar Audience

NCEH/ATSDR

Region 4 EPA

Emory Medical Toxicology Program trainees

CDC (including NIOSH)

Online (LiveMeeting):

ATSDR State Cooperative Agreement Partners

ATSDR Regional Offices

Low pressure format for

# NCEH/ATSDR Scientists

from diverse

Environmental Health Disciplines

to Explore Mutual Interests

# with SRP Scientists

# One on One Interactions May Catalyze Faster use of Basic Research Insights in Applied Environmental Public Health Practice

# Many desired outcomes are not easily quantified.

- NCEH/ATSDR learns about new developments in basic science
- DHAC/ATSDR has used information gained from the seminars & individual meetings in their Public Health Assessments
- SRP grantees learn about NCEH/ATSDR programs, research, and research needs.
- Scientific networking connections made for future use
- Collaborations & cooperation are considered

# The Zenith of Success

Collaborations are Easily Counted Outcomes

*But*

Should not be the Only Metric
for Evaluating
this Research Translation Activity

# New Collaborations Developed: I

Jim Swenberg, University of North Carolina-Chapel Hill

&

Protein Biomarker Lab/NCEH

**NCEH chemists** analyzed acrylamide and glycidamide hemoglobin adducts as biomarkers of exposure for a case control study on brain tumors.

**Jim Swenberg's lab** measured butadiene hemoglobin adducts in the same study. The data are currently being analyzed.

# New Collaborations Developed : II

Clem Furlong, University of Washington

&

Emergency Response & Air Toxicants Branch/NCEH

## Development of Novel Blood Biomarkers

to aid in diagnosing human exposure to

## Cholinesterase Inhibitors

[bioterrorism agents, organophosphate insecticides, organophosphate ester additives to lubricants and hydraulic fluids]

# Potential Collaborations Incubating Now

Grant proposal ideas being kicked around.

NCEH scientists were contacted by an epidemiologist from a non-SRP institution.

"If we hadn't met this SRP grantee when he visited, we wouldn't have thought of including him when brainstorming about study design."

Challenges

# Lack Funding

to follow through on all

## Ideas for Potential Collaborations

between SRP grantees & NCEH/ATSDR

NCEH/ATSDR scientists ask:

Will SRP

Fund some collaborations?

Provide some seed money to start pilot projects?

# Thank YOU!!!

SRP & SRP grantees

for funding

&

participating in this

Research Translation Activity!

# 2007- 2010 SRP Participants

## University of North Carolina-Chapel Hill

### Frederic K. Pfaender

Bioavailability as a Factor in Pollutant Exposure

### Leena A. Nylander-French

Pharmacokinetics of the Interaction between Inhaled & Dermal Absorption of Naphthalene, an Environmental PAH

### James A. Swenberg

Biomarkers of Exposure and Effect: Implications for Risk Assessment

## Duke University & University of Colorado-Boulder

### Karl G. Linden

From PAHs to Organophosphates:
Photolytic Fate in Engineered & Natural Systems

## University of California-Berkeley

### James R. Hunt

Dense Brines as Sources of Groundwater Contamination by Perchlorate & Chromate

## Columbia University

### Tom K. Hei

The How and Why of Asbestos Carcinogenesis

## University of Washington

### Clement Furlong

Biomarkers of Exposure & Paraoxonases as Biomarkers of Susceptibility for Environmentally-Induced Diseases

## University of California-Davis

### Alan R. Buckpitt

Species Differences in Naphthalene Toxicity: Implications for Humans

## University of Iowa

### Keri Hornbuckle

Industrial Chemicals in Urban Environments:
Airborne PCBs & their Sources

## University of Arizona

### Raina Maier

Phytostabilization of Mine Tailings in Arid Environments:
Plant Establishment and Tailings Characterization

## Dartmouth College

### Celia Y Chen

Ecological Factors Controlling Metal Bioaccumulation &
Trophic Transfer in Aquatic Food Webs

Michigan State University

James Tiedje

# Using High Throughput DNA Sequencing to Better Characterize PCB, PAH, & Dioxin Biodegradation Capacities in Environmental Matrices

# NCEH/ATSDR

## Looks Forward To Meeting

# More SRP Scientists

## in

## 2011 !

For more information please contact Agency for Toxic Substances and Disease Registry

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Telephone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348
E-mail: cdcinfo@cdc.gov Web: www.atsdr.cdc.gov