



Welcome to the CLU-IN Internet Seminar

## Superfund Research Program Funding Opportunities

Sponsored by: National Institute of Environmental Health Sciences, Superfund Research Program

*Presenters:*

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Visit the Clean Up Information Network online at [www.cluin.org](http://www.cluin.org)

# **Superfund Research Program Funding Opportunity Web Seminar:**

**R41-44 Small Business Grants (SBIR/STTR) and  
P42 Multi-Project Centers**

**Presenters:**

**William A. Suk, SRP Director  
Heather Henry, SRP Program Administrator  
Leroy Worth, NIEHS Scientific Review Officer  
Lisa Edwards, NIEHS Grants Management Specialist**



**January 17, 2012**



# Agenda

- 2:00 Webinar Instructions
- 2:10 Introduction to Superfund Research Program and SARA Mandates
- 2:15 Small Business (SBIR/STTR, R41-R44) Funding Opportunities
- 2:30 Multi-Project Centers (P42) Funding Opportunities
  - SRP Program Staff (New for 2011 RFA)
  - Scientific Review Process
  - Grants Management (Budgets, Applications, Forms)
- 3:15 Question / Answer

# SRP Mandates under SARA

University-based basic research program established in 1986 under Superfund Amendments Reauthorization Act (SARA)

Development of:

Health Effects

- Advanced techniques for the detection, assessment, and evaluation of the human health effects of hazardous substances

Assessing Risks

- Methods to assess the risks to human health presented by hazardous substances

Detection

- Methods and technologies to detect hazardous substances in the environment

Remediation

- Basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances

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# SRP Strategic Plan (2010)

- Relevance
  - Interaction with stakeholders
  - Problem-based, solution-oriented research
  - Critical research areas
- Impact
- Innovation



## SRP Stakeholders

### Sister Superfund Programs:

- US Environmental Protection Agency (EPA)
- Agency for Toxic Substances and Disease Registry (ATSDR)

Others: federal agencies, state, local, and tribal entities responsible for sites; individuals and communities living near hazardous waste sites

<http://tools.niehs.nih.gov/srp/about/Strategic%20Plan.pdf>

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## SRP: Hazardous Substances Detection and Remediation Program

### SMALL BUSINESS INNOVATIVE RESEARCH (R43-44)

SBIR: Stimulate technological innovation in the private sector



### SMALL BUSINESS TECHNOLOGY TRANSFER RESEARCH (R41-42)

STTR: Stimulate innovation through private sector partnerships with non-profit research institutions



+



# SBIR / STTR

Helpful  
Tips

- Two Topic Areas:

- Detection Technologies
- Remediation Technologies

**Emphasis on sustainable technologies**

**Priority on technologies applicable to Superfund / RCRA Remediation / Monitoring needs.**

**Topics of Interest (January 2011)**

<http://www.niehs.nih.gov/research/supported/programs/sbir/topics/hwaerp/index.cfm>

- Two Phases

- Phase I: technical/scientific merit and feasibility
- Phase II: continue the research or R&D, commercialization plan

## Three Receipt Dates

April 5, August 5

December 5

	SBIR	STTR
Phase I	R43 \$150K, ≤ 6 mos	R41 \$100K, ≤ 1 yr
Phase II	R44 \$1M, ≤ 2 yrs	R42 \$750K, ≤ 2 yrs

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# SBIR / STTR



- Read the Program Announcements

SBIR Announcement: <http://grants.nih.gov/grants/guide/pa-files/PA-11-096.html>

STTR Announcement: <http://grants.nih.gov/grants/guide/pa-files/PA-11-097.html>

Carefully Address all Review Criteria (Section V of the Program Announcements)

- Registration/Application:

- Must be registered (allow > 4 weeks):

- Grants.gov: [http://www.grants.gov/applicants/get\\_registered.jsp](http://www.grants.gov/applicants/get_registered.jsp)
- eRA Commons: <http://era.nih.gov/ElectronicReceipt/preparing.htm>

*Are you a Small  
Business?*  
<http://sba.gov/size>

- Include a cover letter with application:

- Intent to respond to the NIEHS Hazardous Substances Detection and Remediation Program announcement.
- You may specify your preferred Review Study Section:  
<http://public.csr.nih.gov/StudySections/SmallBusinessTechnologyTransfer/Pages/default.aspx>

- Be Aware of New Notices from NIH:

- NIH SBIR/STTR Notices: <http://grants1.nih.gov/grants/funding/sbir.htm>

# Current SRP SBIR / STTR Grantees

http://tools.niehs.nih.gov/srp/programs/index269.cfm

Currently Funded (Superfund Research Program)

**NIEHS**  
National Institute of Environmental Health Sciences - National Institutes of Health

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**Research**

- Funded by NIEHS Grants
- Superfund Research Program
- Who We Fund
- Small Business Innovation Research / Small Business Technology Transfer Research Grants
- Currently Funded**
- Advanced Microbiolabs, LLC (2010-2011, Phase II)
- AquaMost, LLC (2011-2013, Phase II)
- Blue Planet Strategies, LLC (April - September 2011, Phase I)
- Edenspace Systems Corporation (April - September 2011, Phase I)
- Edenspace Systems
- 2011, Phase I)
- Lynntech, Inc. (2011-2012)
- Seacoast Science, Inc. (2011-2013, Phase II)
- Previously Funded

**Currently Funded**

Superfund Research Program

Small Business Innovation Research (R43/R44) (SBIR) and Small Business Technology Transfer Research (STTR) (R41/R42) grants are awarded to foster the commercialization of technologies, products and devices developed by the SRP and others. The SRP SBIR grants are made under the NIH Omnibus Solicitation. For the 2009 solicitations, please refer to the [NIH Small Business Research Funding Opportunities](#).

**Currently Funded SBIR/STTR Programs**

<p><b>Advanced Microbiolabs, LLC</b> Safe and Cost Effective Water Remediation, Enabled by an Online Perchlorate Analyzer Program Director: <a href="#">Philippe Dattéva</a> Funding Period: September 2008 - July 2012 Phase II</p>	<p><b>AquaMost, LLC</b> Continued Development of Photoelectrocatalytic Oxidation for Treating Gasoline Contamination Program Director: <a href="#">Terence P. Barry</a> Funding Period: September 2011 to August 2013 Phase II</p>
<p><b>Blue Planet Strategies, LLC</b> Value Added Product Generation from Acid Rock Drainage Program Director: <a href="#">Patrick L. James</a> Funding Period: July 2011 to December 2011 Phase I</p>	<p><b>Edenspace Systems Corporation</b> Arsenic Phytosensors Program Director: <a href="#">Mark P. Ellers</a> Funding Period: September 2009 - August 2011 Phase II</p>
<p><b>Lynntech, Inc.</b> Field Deployable Vapor Intrusion Monitor Program Director: <a href="#">Bilal Valdig</a> Funding Period: September 2011 to February 2012</p>	<p><b>Seacoast Science, Inc.</b> Low-Cost Electronic Nose for Groundwater Contaminants Program Director: <a href="#">Sanjay V. Patel</a> Funding Period: May 2011 to May 2013 Phase II</p>

<http://tools.niehs.nih.gov/srp/programs/index269.cfm>

## Who to Contact?

### NIEHS Contact for SRP SBIR/STTR:

Heather Henry, [henryh@niehs.nih.gov](mailto:henryh@niehs.nih.gov), (919) 541-5330

### Other NIEHS SBIR/STTR Programs:

<http://www.niehs.nih.gov/funding/grants/mechanisms/sbir/>

#### **Daniel Shaughnessy, Ph.D.**

##### **Program Administrator**

Tel (919) 541-2506

Fax (919) 316-4606

[shaughn1@niehs.nih.gov](mailto:shaughn1@niehs.nih.gov)

- Predictive Test Systems for Safety Evaluation Program
- Exposure Biology Program
- Educational & Training Resources Program

#### **Theodore W. Outwater, M.A.**

##### **Education Specialist**

Tel (919) 541-2972

Fax (919) 541-0462

[outwater@niehs.nih.gov](mailto:outwater@niehs.nih.gov)

- Worker Education and Training Small Business Opportunities (by solicitation)

## P42 Multi-Project Centers

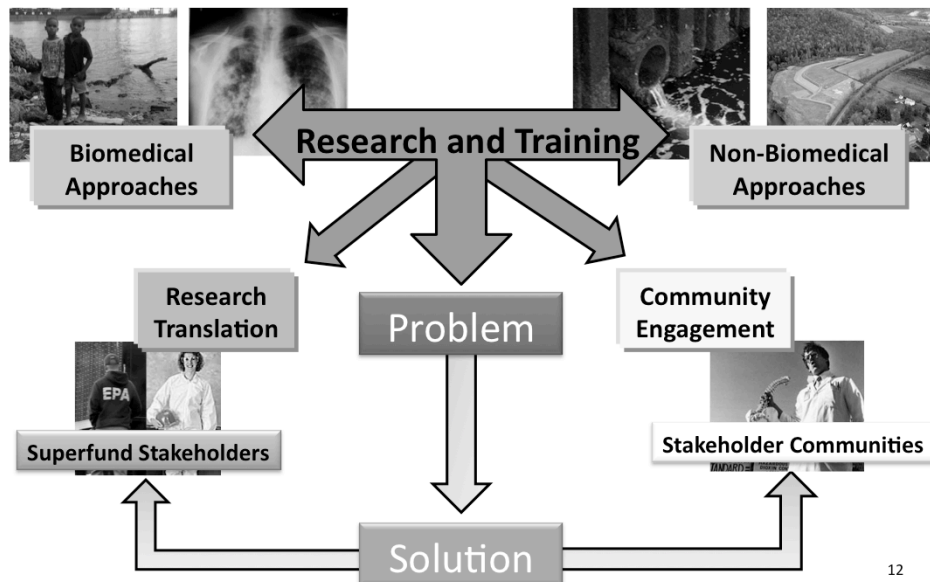
### **RFA-ES-12-003 SUPERFUND HAZARDOUS SUBSTANCE RESEARCH AND TRAINING PROGRAM (P42)**

Improve public health by supporting integrative, inter-disciplinary research.

Provide sound science, data, information, and knowledge to inform the risk assessment and remediation management processes for hazardous waste sites.

Bring expertise of multiple biomedical and non-biomedical disciplines to address scientific uncertainties facing the National Superfund Program.

## P42 Multi-Project Centers



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# P42 Multi-Project Centers

## Scope of Research

**Broad Scope –  
Ultimately should be a  
clear link to Superfund.**

**Suggested Research Topics:  
High priority areas for EPA/  
ATSDR colleagues**

**Programmatic Balance  
(See Current Grantees:  
[http://tools.niehs.nih.gov/  
srp/programs/index267.cfm](http://tools.niehs.nih.gov/srp/programs/index267.cfm))**

### SRP Mandates

- Advanced techniques for the detection, assessment, and evaluation of the effect of hazardous substances on **human health**
- Methods to assess the **risks** to human health presented by hazardous substances
- Methods and technologies to **detect** hazardous substances in the environment
- Basic biological, chemical, and physical methods to **reduce the amount and toxicity** of hazardous substances

### Strategic Plan

**Relevance:** to Superfund

**Impact:** to Stakeholders

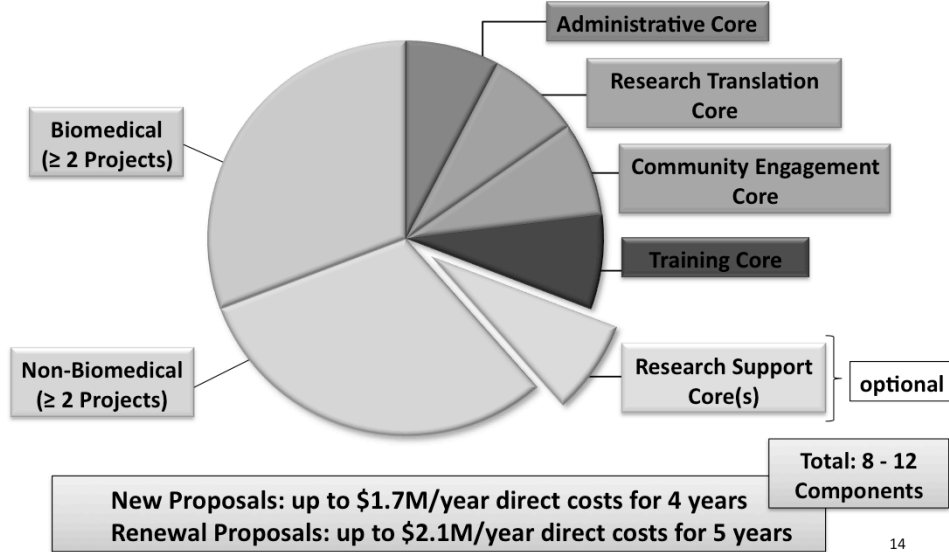
**Innovation:** Trans-disciplinary/Paradigm-shifting

**Not Required: Superfund Site; CERCLA Substance**

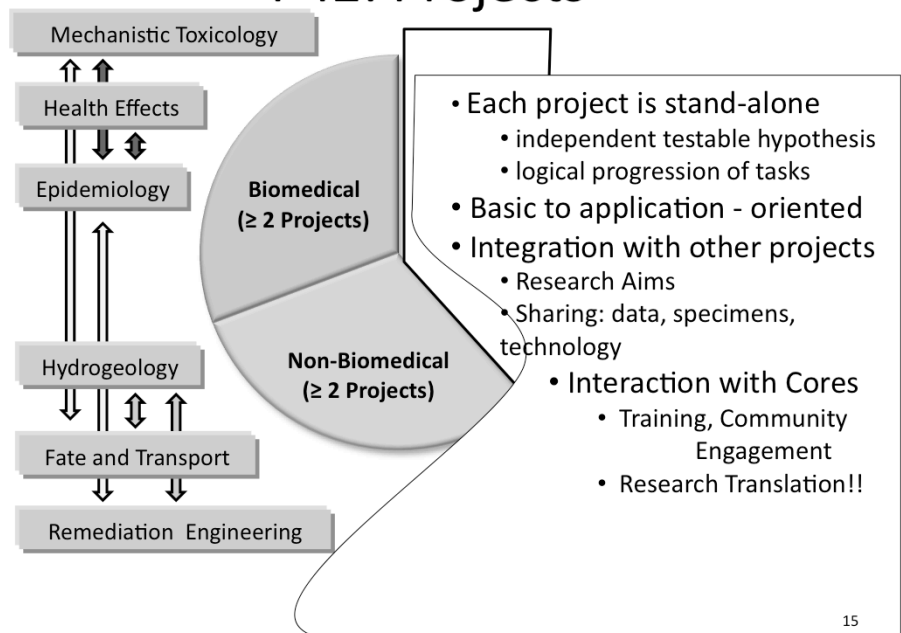
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# P42 Multi-Project Centers

All Components Interacting, Addressing Problem



## P42: Projects





## P42: Projects

### **FOCUS!!!!**

Centers should be VERY judicious in assembling research projects. Center should, with projects, keep a clear focus and not try to do too much!!

Include projects with most solid connection to the Center's problem-solving theme.

Lean Times: Not too big! Come in under budget, well under 12-component limit.

Especially True for New Center Proposals!

### **Interactions:**

Cross-reference interactions between projects and cores. Should be consistent throughout.

### **Abstract / Titles – Avoid Jargon**

- P42 Reviewers have broad expertise
- Write abstracts/titles for a general audience
- Write Specific Aims for technical experts
- [http://grants.nih.gov/grants/plain\\_language.htm](http://grants.nih.gov/grants/plain_language.htm)

Helpful  
Tips

## P42: Projects

### Resource Sharing Plans

NEW: for investigators to explore opportunities for sharing research products and broad opportunities for research translation during project development.

**1 paragraph PLAN for each:**

#### Research Data Sharing Plan:

- Publication-based data-sharing opportunities; databases
  - Explain if sharing not appropriate.
- Must follow all NIH required data-sharing.

#### Investigator-Initiated Research

**Translation Plan:** Identify potential interactions between researcher and end-user (not researcher to researcher) drawing from SRP's 4 research translation components. (Consistency with RTC).

See "Application Guidelines" for NIH Data Sharing examples and Translation suggestions.

NOT ES-12-003: Clarification of Resource Sharing Plans for RFA ES-12-003...

## P42: Administrative Core (Required)

### Administrative Core (AC) Functions

- Planning and coordination
- Promote cross-discipline interaction
- Ensure research translation
- Oversee fiscal and quality management

### External Advisory Committee (EAC)

- Provides Guidance to Director
  - Scientific Merit
  - Relevance, Integration
  - Research Translation, Community Engagement, Training activities

### Anticipated EAC Members\*

Academics (*biomedical AND non-biomedical*), Stakeholders, EPA/ATSDR, Industry, Community

Helpful  
Tips

### AC Breaks Silos

- Between Disciplines
- Basic to Applied
- Lab to End-user

### AC Promotes Careers

Trainees, Early Stage Investigators,  
**Succession Planning??**

*\*New Applicants: include expertise of potential EAC members, not names*

Not to exceed \$150,000  
Direct Costs

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# Research Translation Core (Required)

Helpful  
Tips

## Research Translation Core Function:

Communicating and facilitating the use of research findings emanating from the program in the manner most appropriate for their application and the advancement of research objectives.

### Include Plan for Four Components

1. **Communication**
2. **Government Partnerships**
3. **Technology Transfer**
4. **Information Dissemination**

Note: SRP Research Translation – much broader scope than NIH’s Clinical Translation (bench to bedside).

Information from Center to Center as well as Center outward (to all end-users)

Plan for Reporting News to SRP:  
<http://tools.niehs.nih.gov/srp/resources/rtc.cfm>

Not to exceed  
\$150,000 Direct Costs

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## Research Translation Core (RTC)

1. Communicating within SRP
  - a. Project-Specific: Within Center
  - b. Center-Specific: Center Out
  - c. Between Center/SRP
  - d. Between Centers

Expertise: staff with experience in diverse science topics.

RTC – work with investigators on research translation plan for each project (clusters of projects).

### 2. Partnerships with Government Agencies

EPA/ATSDR a priority, but not a requirement.

#### Where to start?

- SRP's Additional Resources Webpage\*
- Find your EPA Region's Superfund Technical Liaison / ATSDR staff
- Superfund Site Remedial Project Manager

### 4. Information Dissemination to Other End-Users

**End-Users:** formal/informal education groups, hazardous waste practitioners, lay public, other academic researchers

**Examples:** Educational materials, Web sites, webinars, "outreach," etc.

\* <http://www.niehs.nih.gov/research/supported/srp/funding/rfa/index.cfm>



# Community Engagement Core (Required)

## Community Engagement Core Function:

To enhance knowledge exchange and to support community needs with regard to the science emanating from the Center

## Target communities

SRP defines target communities as those impacted by sites contaminated with hazardous substances.

- **Members of the affected community**
- **May also include:** local government, tribal councils, community service groups, non-governmental organizations

Helpful  
Tips

HIGHLIGHT **"Bidirectionality"** between community and Center

*A Community Engagement Component Statement* must be included in application. (See Application Guidelines)

Where to start?

- SRP Additional Resources Webpage\*
- Community Engagement Information\*

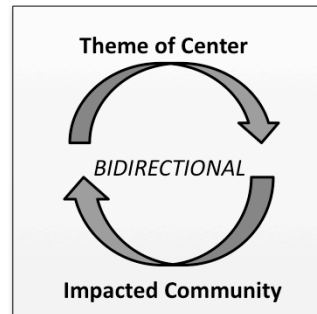
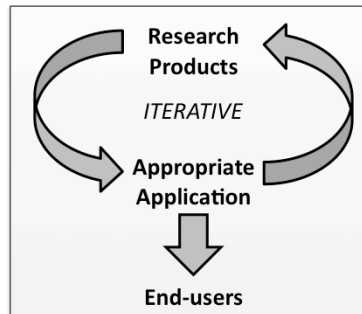
Not to exceed  
\$100,000 Direct Costs

\* <http://www.niehs.nih.gov/research/supported/srp/funding/rfa/index.cfm>

## Research Translation

## Community Engagement

Shared Challenge: Finding the most Appropriate End-User / Community Group for Center Research and Activities



- Initiated by the Center (RTC/ Investigator)
- Based on research “product”
- Opportunistic and Rapid Response
- Critical role reporting successes

- Partnership-driven
- Finite/Defined Activities
  - Provide access to expertise or conduct community-based projects

# Training Core (Required)

**Training Core Function:**  
Graduate and Post-doctoral level  
cross-disciplinary training

- Promote interactions between biomedical and non-biomedical trainees
- Professional development
- Communicating research effectively
- Involvement in Research Translation, Community Engagement, etc.
- Achieves program integration

Helpful  
Tips

Inquiring Reviewers want to know:

- Recruitment?
- Past trainee successes

Cost Limitations:

- New Applicants:  
\$100,000 Direct Costs
- Renewal Applicants:  
\$125,000 Direct Costs

## P42: Research Support Core (Optional)

- Research Support Core

- Provides centralized services
- Shared by at least 2 projects

Helpful  
Tips

- Pros and Cons of RSC

- Pros:
  - Excellent Interactions/Integration
  - Opportunities for Training
  - Assurance of Quality
- Cons:
  - May not be critical (if facilities already available)
  - 12 component limit

If Research Support Core is not included, project should adequately detail research support activities (e.g. QA/QC)

## New to this RFA (P42 Centers)

- Total Projects and Cores limited to 12 Components
- Training Cores required
- Research Support Cores optional

### Resource Sharing Plan for Projects

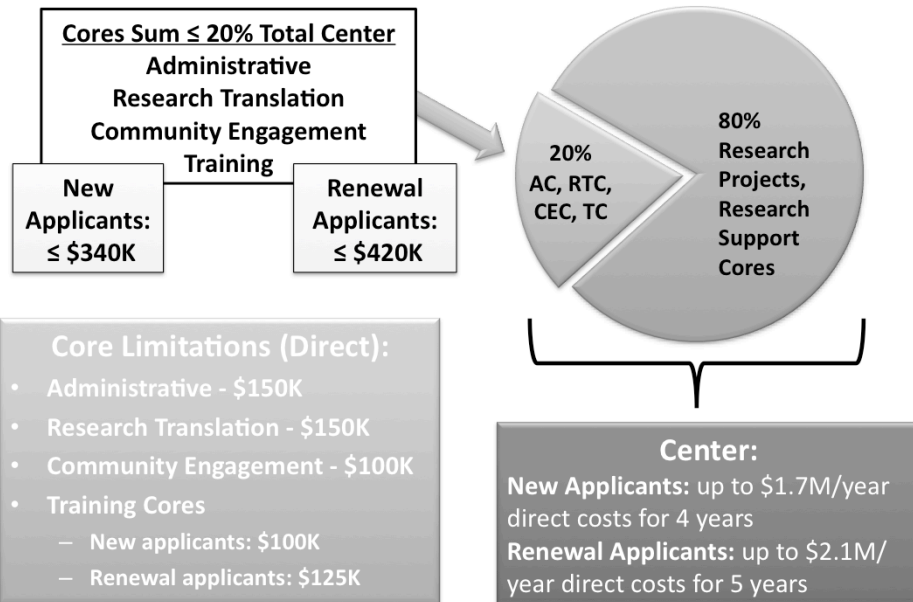
Please see: NOT-ES-12-003:

<http://grants.nih.gov/grants/guide/notice-files/NOT-ES-12-003.html>

### Review Criteria Changes

- Modifications to overall center description of Significance, Investigator, Innovation, Approach and Environment
- Cores: each core has specific review criteria

## New Cost Limitations (Direct)

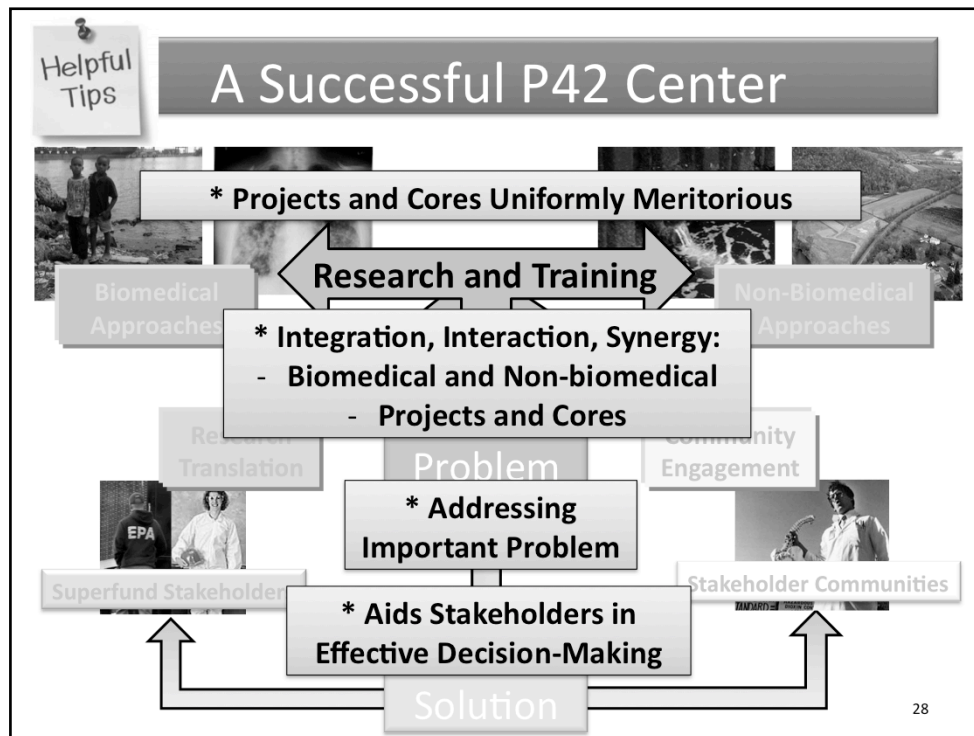


## Other Recent Changes

- Research Translation Core
  - Translation plan for each project
- Research Strategy (12 page limit)
- Review Scoring System
- One Resubmission
- Community Engagement
  - Core is Required
  - Community Engagement Projects (CEPs)
    - explicitly mentioned (had always been welcome)
    - e.g. community-based participatory research (biomedical and non-biomedical)
  - New: “*Community Engagement Component Statement*” section for CEC and CEPs.

### Unchanged Characteristics

- Not a site-specific program
- Basic to application-oriented research
- Innovative approaches to research





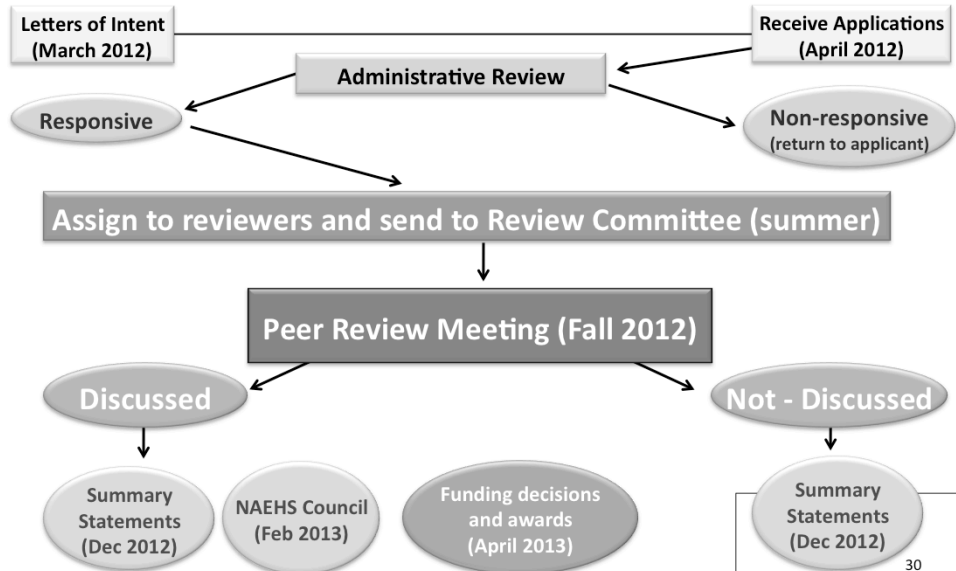
Review

**NIEHS SCIENTIFIC REVIEW**

**LEROY WORTH, PHD (2012 P42 REVIEW )**

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## P42 Application and Review Process



## P42 Application and Review Process

- Letters of Intent (not required)
  - Assists in review planning
  - Descriptive title of proposed research
    - Overall Center
    - Each Project / Core !!!
  - Name, address, and telephone number of the PD(s)/PI(s)
  - Names of other key personnel
  - Participating institutions
  - Number and title of this funding opportunity
- Submission of LOI:
  - Email to Dr. Leroy Worth, [worth@niehs.nih.gov](mailto:worth@niehs.nih.gov)
  - **Requested by March 16, 2011 (Not Required)**

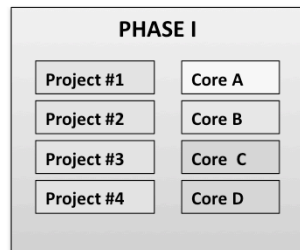
## Reviewers' Areas of Expertise, Including....

BIOMEDICAL	NON-BIOMEDICAL
<ul style="list-style-type: none"><li>• Toxicology (all types)</li><li>• Epidemiology</li><li>• Pathobiology</li><li>• Biostatistics/Bioinformatics</li><li>• Molecular Toxicology Design</li><li>• Structural/Comparative Biology</li><li>• Exposure Assessment</li><li>• Molecular Biology</li><li>• Genomics/Epigenetics</li></ul>	<ul style="list-style-type: none"><li>• Chemistry</li><li>• Geology/Hydrogeology</li><li>• Ecology/Ecotoxicology</li><li>• Molecular Biophysics</li><li>• Microbiology</li><li>• Engineering, Materials Science</li><li>• Remediation (Bio-, Physical, Chem-)</li></ul>
<b>TRANSLATION &amp; COMMUNITY</b> <ul style="list-style-type: none"><li>• Community-based Research</li><li>• Communication, Technology Transfer</li></ul>	

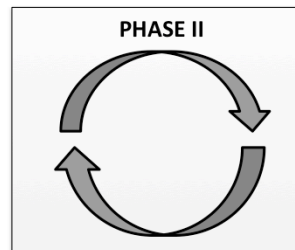
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## P42 Peer Review Process

- Two Phase Peer Review
  - Phase I: Review of Projects, Cores (in order listed in application)
  - Phase II: Review of Overall Center
- Review Criteria:  
[http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-12-003.html#\\_Section\\_V\\_Application](http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-12-003.html#_Section_V_Application)

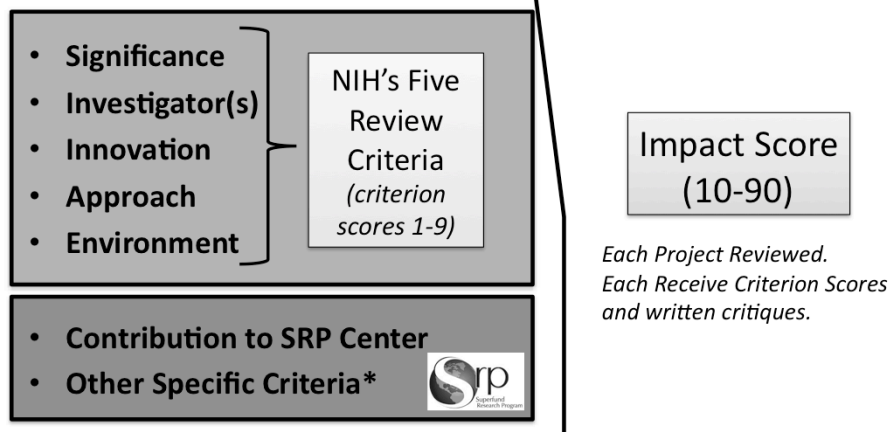


Scientific Merit of Projects/Cores



Impact of Overall Center

## P42: Project Impact Score



\*Additional criteria for community engagement research projects

Note: Human Subjects, Animal Care, and Biohazards may be considered in the score.  
Budget Concerns and Resource Sharing Plans are not considered in score.

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## P42: Core Impact Score

- **Contribution to SRP Center**
- **Other Criteria Specific to Each Core**
  - Administrative
  - Research Translation Core
  - Community Engagement
  - Training
  - Research Support Cores**(see RFA for specific criteria)**



**Impact Score  
(10-90)**

*Each Core Reviewed  
Separately.  
Each Receive written critique.*

Note: Human Subjects, Animal Care, and Biohazards may be considered in the score.  
Budget Concerns and Resource Sharing Plans are not considered in score.

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## Overall Center Impact Score

### Addressing a critical problem?

**Merit of Projects and Cores?** Will provide:  
data, information, knowledge to stakeholders;  
rigorous scientific basis for decision making?

**Integration:** around problem-based, solution-oriented theme.

**Interactions:** between biomedical and non-biomedical, between projects and cores.

**Synergy:** whole greater than sum of parts.

**Appropriate strategy and “fit” for P42?**

**PI Leadership? Innovation? Environment?**

**Final Score**  
**(Range: 10-90)**



# P42 Multi-Project Centers

## Emphasize Integration

- Highlight Interactions in Application:
  - Center Introduction
  - Relation to Overall Center
- Cross-Reference Interactions
  - Within Project/Core Sections
  - Be consistent!

## Highlight

- Multi/interdisciplinary, synergy, innovative...
- Explain how “it” fits together as a center
- Exclude weak projects

## Plain Language Abstracts

P42 Reviewers – broad expertise...

- Abstracts written for a general audience.
- Specific Aims written for technical experts.

## Reviewers' Perspective: Recommendations

- Seek appropriate advice
- Organize according to guidelines
- Write application with review in mind
- Address all review criteria
- Be complete but concise
- Discuss accomplishments
- Include potential pitfalls and alternative approaches
- Don't assume reviewers will "know what you mean"
- Presentation / "Grantsmanship"

## Notices

- NOT-OD-11-035: NIH Policy on Late Submission of Grant Applications
- NOT-OD-10-115: Enhancing Peer Review: New NIH Policy on Post-Submission Application Materials
- NOT-OD-12-003: Publication of the Revised NIH Grants Policy Statement (Rev. 10/1/2011): Policy Changes, Clarifications and Document Enhancements
- NOT-OD-11-080: Reminder: Compliance with NIH Application Format and Content Instructions
- NOT-OD-11-021: "Reminder: Policies Affecting Submission of NIH Grant Applications for Due Dates on or after January 25, 2011," all corrections must be complete by the due date for an application to be considered on-time.
- NOT-OD-10-077: Policy Reminder Concerning Appendix Materials for All NIH/AHRQ/NIOSH Grant Applications

NIH NOTICES:

[http://grants.nih.gov/grants/guide/search\\_results.htm?year=active&scope=not](http://grants.nih.gov/grants/guide/search_results.htm?year=active&scope=not)

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## Components of a Successful Application

# Components of a Successful Application

- Good Idea
- Good Science
- Good Application

"A well prepared application will not make a bad scientific idea good; however, a poorly prepared application can disguise a good scientific idea."

*William Raub, Ph.D. Former Acting Director, NIH*

Budget

**NIEHS GRANTS MANAGEMENT**

**LISA EDWARDS, MBA**

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# Budget Preparation

## Form Pages, Approvals, Other Support, Notices

- Forms (<http://grants.nih.gov/grants/forms.htm>)
  - P42 – PHS 398, paper
  - SBIR/STTR – SF 424, electronic
- Approvals
  - IACUC Approval (Vertebrate Animals)
  - IRB Approval (Human Subjects)
  - Begin process at time of application, but final approval will be requested for Just In Time\*
- Other Support
  - “0%”, “Varies”, “As Needed”, etc., are not acceptable
  - Total percentage cannot equal more than 100%

### New Notices

- Revised Grants Policy Statement: [NOT-OD-12-003](#)
- Salary caps: [NOT-OD-11-073](#)

Just in Time: Request for information prior to award.

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## Budget Preparation

- Parent Grant Direct Costs
  - Consideration of *equipment* in the out-years will be based upon justification and availability of funds
- Subcontracts
  - must follow same guidelines as parent; budget pages required and should follow associated project or core
  - Subcontract direct costs are included in the parent grant Subtotal Direct Costs, which may be subject to budget caps
  - F&A of subcontract is included in Total direct Costs of parent grant , but will not count against budget cap
- Budget Justifications (Be detailed and specific)
  - Are all costs itemized?
  - Are all additions and changes in future years fully justified and identified clearly; specifically changes in personnel effort?

# Budget Preparation

Applies Only to P42 Budget

## Non-Modular

### Provide detailed categorical budgets

- Each Project
- Each Core
- Each 3<sup>rd</sup> Party Participant

**ALL Budgets should be together in Part 1 of the application**

**ALL Budget Pages should be labeled**

## Escalation

Allowed 2% escalation of *recurring* direct costs per out-year

### Must be justified:

- Is the amount of escalation requested supported by institutional policies?
- Is the amount clearly stated?

## Travel to Annual Meeting

### **Administrative Core Budget:**

PI, Business Manager, 4 students

### **Community Engagement Core Budget:**

Core Leader

### **Research Translational Core Budget:**

Core Leader

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Composite Budget

Composite Budget      Program Director/Principal Investigator (Last, First, Middle): Messier, Mark									
DETAILED BUDGET FOR INITIAL BUDGET PERIOD DIRECT COSTS ONLY						FROM 04/01/2010	THROUGH 03/31/2011		
PERSONNEL (Applicant organization only)		Months Devoted to Project			DOLLAR AMOUNT REQUESTED (one entry)				
NAME	ROLE ON PROJECT	Cal. Mths	Acad. Mths	Summer Mths	INST BASE SALARY	SALARY REQUESTED	FRINGE BENEFITS	TOTAL	
Project 1 — PL Messier						113,909	36,272	150,241	
Project 2 — PL Kasparatis						104,157	35,677	139,834	
Project 3 — PL Granato						65,521	25,987	111,508	
Project 4 — PL Rheaume						101,818	23,918	125,736	
Project 5 — PL Gietzky						115,253	19,047	134,300	
Admin Core A — CL Avery						67,354	23,725	91,079	
Res Support Core B — CL Staal						99,991	30,951	130,942	
Res Transl Core C — CL Graves						65,134	23,239	88,373	
Outreach Core D — CL Howe						47,835	16,466	64,301	
Training Core E — CL Drury						54,773	9,188	63,961	
<b>SUBTOTALS</b>						<b>655,805</b>	<b>244,470</b>	<b>1,100,275</b>	
CONSULTANT COSTS									
Core A — \$4,000									
EQUIPMENT (lump sum)									
Core B — \$7,000									
SUPPLIES (itemize by category)									
Project 1 — \$36,000      Project 4 — \$29,000      Core A — \$ 3,807      Core D — \$ 4,110									
Project 2 — \$35,476      Project 5 — \$17,000      Core B — \$48,000      Core E — \$ 1,692									
Project 3 — \$35,662      Core C — \$ 2,777									
TRAVEL									
Project 1 — \$3,000; Project 2 — \$3,600; Project 3 — \$2,500; Project 4 — \$5,000; Project 5 — \$3,100									
Core A — \$7,000; Core C — \$6,846; Core D — \$5,000; Core E — \$8,000									
PATIENT CARE COSTS									
INPATIENT									
OUTPATIENT									
ALTERATIONS AND RENOVATIONS (itemize by category)									
OTHER EXPENSES (itemize by category)									
Project 1 — \$18,240      Project 4 — \$ 261      Core D — \$ 4,200									
Project 2 — \$7,000      Project 5 — \$1,153      Core E — \$10,240									
Project 3 — \$4,000      Core A — \$ 1,500									
CONSORTIUM/CONTRACTUAL COSTS									
DIRECT COSTS									
SUBTOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Item 7a, Face Page)									
\$ 1,535,443									
CONSORTIUM/CONTRACTUAL COSTS									
FACILITIES AND ADMINISTRATIVE COSTS									
TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD									
\$ 1,567,443									

**Note:**  
Use PHS 6/09 Forms

PHS 198 (Rev. 11/07) Page

Form Page 4

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Composite Budget:  
All Years

BUDGET CATEGORY TOTALS		INITIAL BUDGET PERIOD (from Form Page 4)	ADDITIONAL YEARS OF SUPPORT REQUESTED			
			2nd	3rd	4th	5th
PERSONNEL: Salary and fringe benefits. Applicant organization only.		1,100,275	1,133,283	1,167,282	1,202,300	1,238,369
CONSULTANT COSTS		4,000	4,120	4,244	4,371	4,502
EQUIPMENT		7,000	0	0	0	0
SUPPLIES		213,529	219,835	226,553	233,329	240,329
TRAVEL		44,045	45,366	46,727	48,129	49,573
PATIENT CARE COSTS	INPATIENT					
	OUTPATIENT					
ALTERATIONS AND RENOVATIONS						
OTHER EXPENSES		46,594	47,882	49,432	50,815	52,442
CONSORTIUM CONTRACTUAL COSTS	DIRECT	120,000	104,045	109,162	112,905	116,686
SUBTOTAL DIRECT COSTS (Sum = item 6a, face page)		1,535,443	1,554,741	1,603,379	1,651,949	1,701,901
CONSORTIUM CONTRACTUAL COSTS	F&A	52,000	54,103	56,764	58,711	60,677
TOTAL DIRECT COSTS		1,587,443	1,608,844	1,660,143	1,710,660	1,762,578
TOTAL DIRECT COSTS FOR ENTIRE PROPOSED PROJECT PERIOD						\$ 8,329,668

JUSTIFICATION: Follow the budget justification instructions exactly. Use continuation pages as needed.

Note:  
Use PHS 6/09 Forms

Individual Project Budget

Project # \_\_\_\_\_ Program Director/Principal Investigator (Last, First, Middle): Messier, Mark

DETAILED BUDGET FOR INITIAL BUDGET PERIOD							FROM	THROUGH
DIRECT COSTS ONLY							04/01/2010	03/31/2011
PERSONNEL (APPOINTMENT ORGANIZATION ONLY)		Months Devoted to Project			DOLLAR AMOUNT REQUESTED (initial only)			
NAME	ROLE ON PROJECT	CS Months	Acad. Units	Summer Months	NET BASE SALARY	SALARY REQUESTED	FRINGE BENEFITS	TOTAL
Mark Messier	Principal Investigator	1.8			126,272	18,941	5,166	24,107
Mike Richter	Co-PI	0.6			186,600	9,330	2,357	11,687
Claude Lemieux	Co-PI	0.6			163,964	8,198	2,119	10,317
Jim Thorpe	Post Doc	12			32,000	32,000	10,594	42,594
Jackie Joyner-Kersey	Graduate Assistant	12			20,000	20,000	2,810	22,810
Michael Phelps	Lab Tech	8			25,000	12,500	6,580	19,080
Tonya Harding	Lab Tech	8			26,000	13,000	6,666	19,666
<b>SUBTOTALS</b>						<b>113,969</b>	<b>36,272</b>	<b>150,241</b>
CONSULTANT COSTS								
EQUIPMENT (Itemize)								
SUPPLIES (Itemize by category)								
Cell culture reagents and supplies								
Molecular biology reagents and testing								
Tissue pathology analysis								
GC/MS chromatography, chemicals and glass ware								
TRAVEL								
FL postdocs and grad students to attend SRP annual meeting								
PATIENT CARE COSTS								
INPATIENT								
OUTPATIENT								
ALTERATIONS AND RENOVATIONS (Itemize by category)								
OTHER EXPENSES (Itemize by category)								
Animal housing								
Publication costs								
Tuition								
						18,240		
CONSORTIUM/CONTRACTUAL COSTS						DIRECT COSTS		
SUBTOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Item 7a, Face Page)						\$ 207,481		
CONSORTIUM/CONTRACTUAL COSTS						FACILITIES AND ADMINISTRATIVE COSTS		
TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD						\$ 207,481		

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Note:  
Use PHS 6/09 Forms

## P42 Multi-Project Centers

- **Announcement:**
  - RFA-ES-12-003: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-12-003.html>
  - NOT-ES-12-003: <http://grants.nih.gov/grants/guide/notice-files/NOT-ES-12-003.html>
- **Applications Details**
  - One application per institution
  - Letters of Intent: March 11, 2012
  - Due Date: April 10, 2012
  - Scientific Review: October, 2012
  - Awards Start Date: April, 2013
- **Staff Consultation Highly Recommended** (In person or teleconference)

# P42 Resources

- RFA Webpage
  - Application Guidelines – How to put together the application, what to include, etc.
  - Research Topics – Numerous areas of general interest as well as specific needs identified by stakeholders.
  - Additional Resources – Links to EPA, ATSDR, and other helpful websites.
  - Community Engagement Information – Links to information to aid in community engagement activities.



The screenshot shows the NIEHS website with a sidebar menu on the left containing links like 'Funded by NIEHS Grants', 'SRP Funding Opportunities', 'Funding Opportunities Webinar', 'Multiproject Center Grants (P42)', 'Additional Resources', 'Community Engagement Information', 'Individual Research Grants (R01)', 'Scientific', and 'Research Groups'. The main content area is titled 'RFA Webpage:' and contains the URL <http://www.niehs.nih.gov/research/supported/srp/funding/rfa/index.cfm>. Below this, there is a section for the 'Superfund Research Program' with text about the 2011 RFA and a list of links including 'RFA-ES-12-003', 'NOT-ES-12-003', 'Superfund Research Topics', and 'Application Guidelines'.

**Also see "Current P42 Grantees:"**  
<http://tools.niehs.nih.gov/srp/programs/index267.cfm>

## P42 Multi-Project Centers

### NIEHS Contacts:

#### Program:

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EPA's CLU-In.org  
Justin Crane, MDB, Inc.



# Questions and Answers

- Via Phone:
  - \*6 to un-mute / mute phone
  - State your name, organization
  - Ask your question
- Via Internet:
  - Click on “?” icon
  - Type question in writing space
  - Press enter

Questions not covered during seminar will be answered off-line ASAP and posted on Web Seminar Webpages:

- On SRP Website:  
<http://www.niehs.nih.gov/research/supported/srp/funding/webinars.cfm> and
- On Clu-In Website (Under “Additional Resources”):  
<http://www.clu-in.org/conf/tio/srpfunding/>

**Audio Archive** will be available in approximately 4 weeks and are accessible from the above websites.



# Resources & Feedback

- To view a complete list of resources for this seminar, please visit the **Additional Resources**
- Please complete the **Feedback Form** to help ensure events like this are offered in the future

The screenshot shows a web form titled "U.S. EPA Technical Support Project Engineering Forum Green Remediation: Opening the Door to Field Use Session C (Green Remediation Tools and Examples) Seminar Feedback Form". The form includes a sidebar with navigation links: "Go to Seminar", "Links", "Feedback", "Home", and "CLU-IN Studio". The main content area contains a message from the EPA Technology Innovation Program, followed by a request for feedback. The form fields include: "First Name:" (with "Jen" entered), "Last Name:" (with "Bent" entered), "Daytime Phone Number:" (with "703-603-8024" entered), and "Email Address:" (with "jenbent@epa.gov" entered). There is a checkbox labeled "Please send a copy of my feedback confirmation as a record of my participation to this address" which is currently unchecked. The date of the seminar is listed as "December 15, 2009" and the delivery media is "Delivery Media".

Need confirmation of your participation today?

Fill out the feedback form and check box for confirmation email.