



Welcome to the CLU-IN Internet Seminar

Superfund Research Program Funding Opportunities

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

December 15, 2010, 2:00 PM - 3:30 PM, EST (19:00-20:30 GMT)

Presenters:

*William A. Suk, Director, Superfund Research Program at the National Institute of Environmental Health Sciences (NIEHS)
(suk@niehs.nih.gov)*

Heather Henry, Program Administrator for the Superfund Research Program at the National Institute of Environmental Health Sciences (NIEHS) (henryh@niehs.nih.gov)

Beth Anderson, Program Analyst, Superfund Research Program at the National Institute of Environmental Health Sciences (NIEHS) (tainer@niehs.nih.gov)

*Lisa Edwards, Grants Management Specialist, National Institute of Environmental Health Sciences (NIEHS)
(archer3@niehs.nih.gov)*

*Janice Allen, Scientific Review Officer, National Institute of Environmental Health Sciences (NIEHS)
(allen9@niehs.nih.gov)*

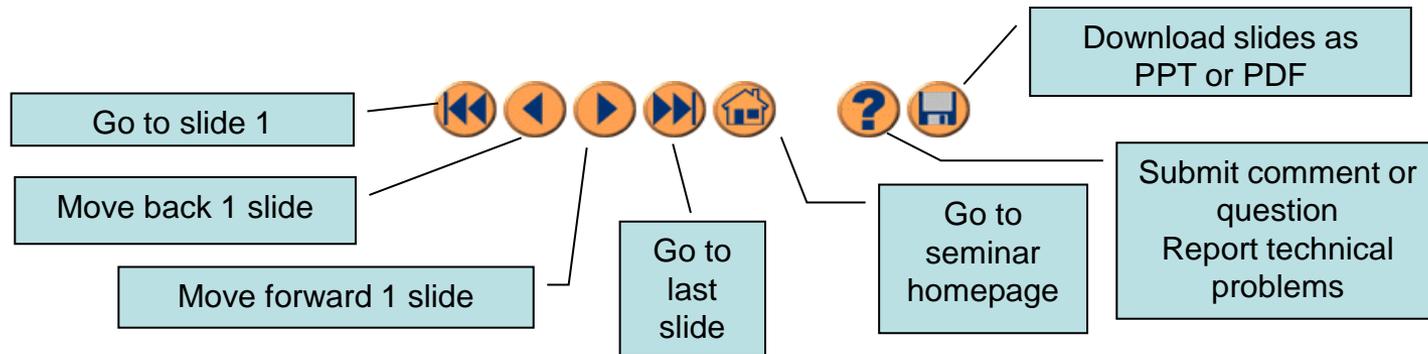
Moderator:

Justin Crane, MDB, Inc. (cranej2@niehs.nih.gov)

Visit the Clean Up Information Network online at www.cluin.org

Housekeeping

- Please mute your phone lines, Do NOT put this call on hold
- Q&A
- Turn off any pop-up blockers
- Move through slides using # links on left or buttons



- This event is being recorded
- Archives accessed for free <http://clu.in.org/live/archive/>

Superfund Research Program Funding Opportunity Web Seminar:

R41-44 SBIR/STTR

R01 Individual Research Projects

P42 Multi-Project Centers

Presenters:

William A. Suk, SRP Director

Heather Henry, SRP Program Administrator

Beth Anderson, SRP Program Analyst

Lisa Edwards, NIEHS Grants Management Specialist

Janice Allen, NIEHS Scientific Review Officer

Moderator:

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December 15, 2010



Agenda

- Will Cover...
 - Superfund Research Program Mandates
 - 2010 Strategic Plan
- Funding Opportunities
 - Small Business (SBIR/STTR, R41-R44)
 - Individual Research Projects (R01)
 - Multi-Project Centers (P42)
- Grants Management (Budgets)
- Scientific Review Process
- Question / Answer

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

SRP Funding Mechanisms

Small Business Innovative Research, SBIR (R43-44)

Small Business Technology Transfer Research, STTR (R41-42)

Foster the commercialization of technologies, products, and devices relevant to hazardous substance clean-up and monitoring.

Ongoing Funding Opportunity

Eligible Applicants: United States small business concerns (SBCs)

Individual Research Project (R01)

Designed to address specific issues to complement the multi-project research program; tackle issues of emerging concern for Superfund. Current solicitation addresses bioavailability assays.

Request for Applications (Periodic)

Multi-Project Centers (P42)

Designed for integration across disciplines: Biomedical and Non-Biomedical Research; Community Engagement, Research Translation, and Training. Basic and application-oriented.

Request for Applications (Annual)

Eligible Applicants: United States accredited institutions of higher education

R41-R44

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

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

SBIR / STTR

- Two Mechanisms

- SBIR: stimulate technological innovation in the private sector
- STTR: stimulate innovation through private sector partnerships with non-profit research institutions

Are you a Small Business?

<http://sba.gov/size>

- Two Phases

- Phase I: technical/scientific merit and feasibility
- Phase II: continue the research or R&D, commercialization plan
- Fast Track: combines Phase I & II in one application

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

Note: This table has been corrected since web seminar. Changes in red.

SBIR / STTR

- Topics of Interest (Released January 2011)
 - Detection Technologies
 - Remediation Technologies
 - Emphasis on “green/sustainable” technologies
- Announcements
 - SBIR Announcement: <http://grants.nih.gov/grants/guide/pa-files/PA-10-050.html>
 - STTR Announcement: <http://grants.nih.gov/grants/guide/pa-files/PA-10-051.html>
- Application Details:
 - Receipt Dates: April 5, August 5 and December 5
 - Processed through NIH Center Scientific Review (standing study sections)
 - Must be registered (allow > 4 weeks):
 - Grants.gov: http://www.grants.gov/applicants/get_registered.jsp
 - eRA Commons: <http://era.nih.gov/ElectronicReceipt/preparing.htm>

SBIR / STTR

NIEHS Contacts:

Program:

Heather Henry, henryh@niehs.nih.gov, (919) 541-5330

Grants Management:

James Williams, williamsjr@niehs.nih.gov, (919) 541-1403

R01

INDIVIDUAL RESEARCH PROJECT

RFA-ES-11-005

**INNOVATIVE BIOAVAILABILITY ASSAYS TO
ASSESS THE EFFECTIVENESS OF
CONTAMINATED SEDIMENT REMEDIATION
(R01)**

R01 Bioavailability Assays

- Purpose
 - Development of innovative assays of bioavailability
 - Application for determining the effectiveness of sediment remediation
 - Indication of risk reduction in humans
- Goals
 - Develop and introduce new tools to assess whether remediation efforts are protective of human health;
 - Increase use of bioavailability in risk assessment through providing scientifically-valid, practical, and cost-effective tools.

Innovative Bioavailability Assays
to Assess the Effectiveness of
Contaminated Sediment
Remediation (R01)

R01 Bioavailability Assays

- Measures of Bioavailability
 - Types: chemical, biological, geochemical, geophysical, etc
 - Innovation in: extraction techniques, mineral analyses, elemental speciation, stable isotope analysis, molecular techniques, etc.
- Innovative Technologies, Devices, Platforms:
 - high throughput approaches
 - -omics
 - in vitro testing
 - lab-on-chip
 - advanced imaging/spectroscopy
 - in situ passive samplers
 - biomimetic techniques

Multidisciplinary Approach:

- Bioassay Development
- Remediation Processes
- Bioavailability Mechanisms
- Assessment of Risks

R01 Bioavailability Assays

- Announcement:
 - RFA-ES-11-005: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-11-005.html>
- Applications Details
 - Letters of Intent: January 18, 2011
 - Due Date: February 17, 2011
 - Direct Cost/Duration Limits: \$200K per year / up to 3 years*
- Scientific Review
 - Special Emphasis Panel: expertise according to applications submitted
 - Peer Review Dates: June, 2011
 - Review Criteria: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-11-005.html#_Section_V_Application
 - Awards Start Date: September, 2011 (earliest)

* Budget must include travel for PI and student to SRP Annual Meeting

R01 Bioavailability Assays

NIEHS Contacts:

Program:

Heather Henry, henryh@niehs.nih.gov, (919) 541-5330

Grants Management:

~~Barbara Gittleman, gittlemanbj@niehs.nih.gov, (919) 541-0585*~~

Lisa Edwards, archer@niehs.nih.gov, (919) 541-0751

Michelle Victalino, victalinom@niehs.nih.gov, (919) 316-4666

Scientific Review:

Sally Eckert-Tilotta, eckertt1@niehs.nih.gov, (919) 541-1446

~~* Staff assignment changes were made after RFA publication.
Ms. Gittleman is now the official Grants Management contact.~~

Note: This slide has been corrected since web seminar. Changes in red.

P42

MULTI-PROJECT CENTERS

RFA-ES-10-010

SUPERFUND HAZARDOUS SUBSTANCE

RESEARCH AND TRAINING PROGRAM (P42)

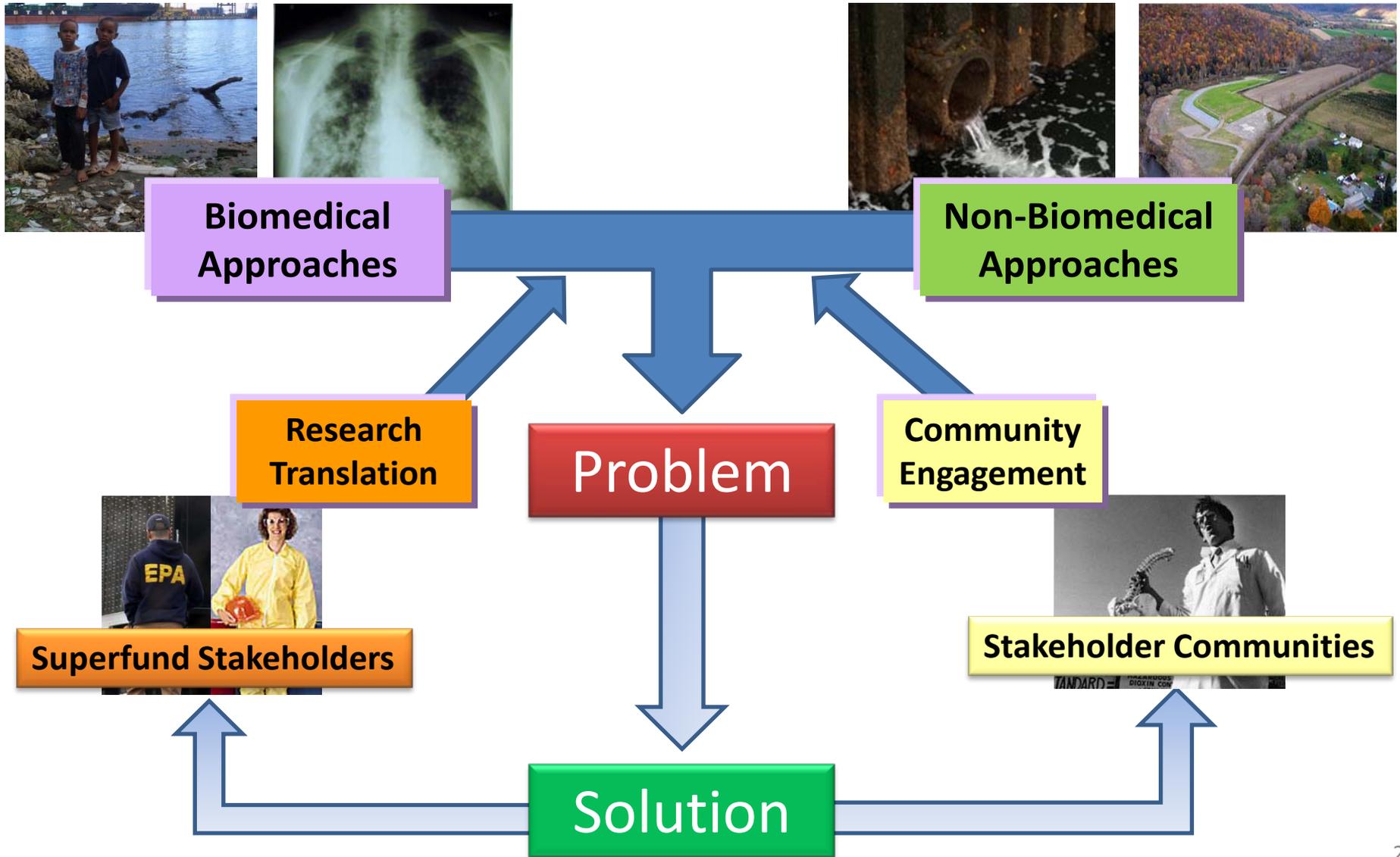
P42 Multi-Project Centers

- Goal:
 - Improve public health by supporting integrative, multidisciplinary 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

- Concept:
 - Center is developed around mechanistic research to solve a particular problem (or set of problems) related to health effects, risk, detection and/or remediation of hazardous substances
 - Biomedical Research
 - Non-Biomedical Research
 - Research Translation
 - Community Engagement
 - Training

P42 Multi-Project Centers



P42 Multi-Project Centers

Scope of Research

- SRP Mandates
- Relevance to Superfund
- Stakeholders
 - investigators should seek input during proposal development
 - Identify critical issues in need of fundamental science
- Innovation
 - Trans-disciplinary
 - Forward-looking

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

SRP Stakeholders

Sister Superfund Programs at US EPA and ATSDR as well as others federal agencies, state, local, and tribal entities responsible for sites; individuals and communities living near hazardous waste sites.

See “Suggested Research Topics:”

<http://tools.niehs.nih.gov/srp/1/Funding/Suggested%20Research%20Topics%20ES-10-010%2011-4-10.pdf>

P42 Multi-Project Centers

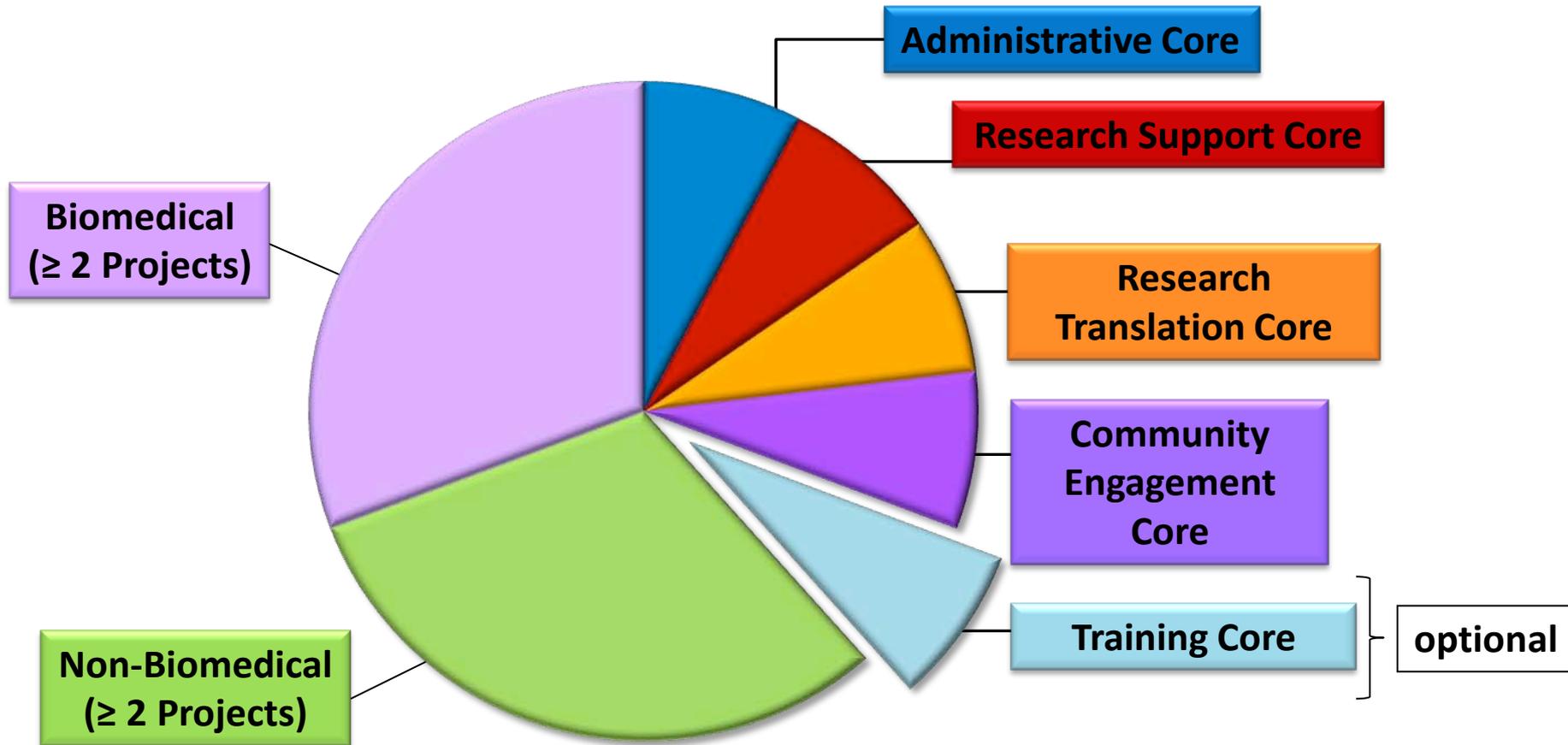
Scope of Research

- Hazardous Substances
 - Drivers of Risk at Hazardous Waste Sites
 - hazardous substances found at Superfund sites;
 - hazardous breakdown products formed in environmental media;
 - hazardous metabolites formed in humans or in experimental animal models
 - Emerging Concern to Superfund
 - Demonstrate how results gained from the studies are relevant to Superfund or lead to better decision making for risk assessors and remediation managers at Superfund sites
 - e.g. high production volume agents with demonstrated potential for human health and environmental impact; or chemicals with structural similarity to the CERCLA Priority List of hazardous substances; and

CERCLA Priority List: <http://www.atsdr.cdc.gov/cercla>

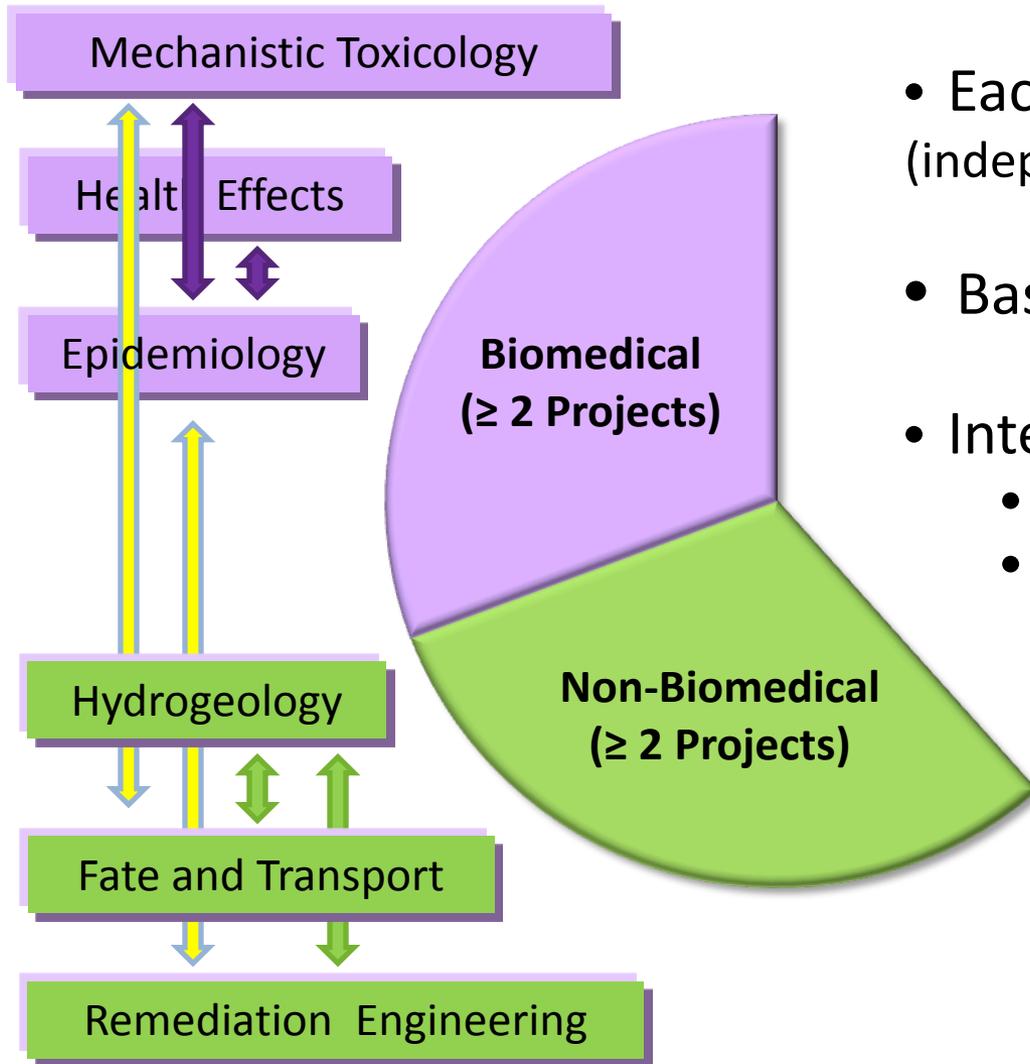
P42 Multi-Project Centers

All Components Interacting, Addressing Problem



New Proposals: up to \$1.8M direct costs for 4 years
Renewal Proposals: up to 3% above final year for 5 years

P42: Projects

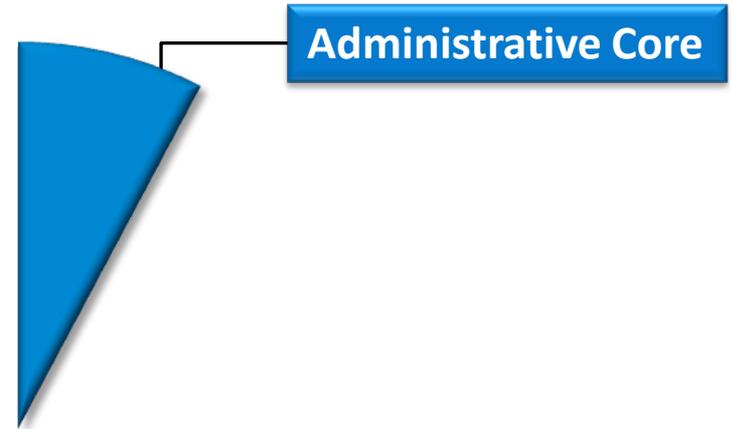


- Each project is stand-alone (independent testable hypothesis)
- Basic to application - oriented
- Integration with other projects
 - Research Aims
 - Sharing:
 - data
 - specimens
- Interaction with Cores
 - Research Translation!!
 - Community Engagement

Note: Applicants may propose community engagement research projects.

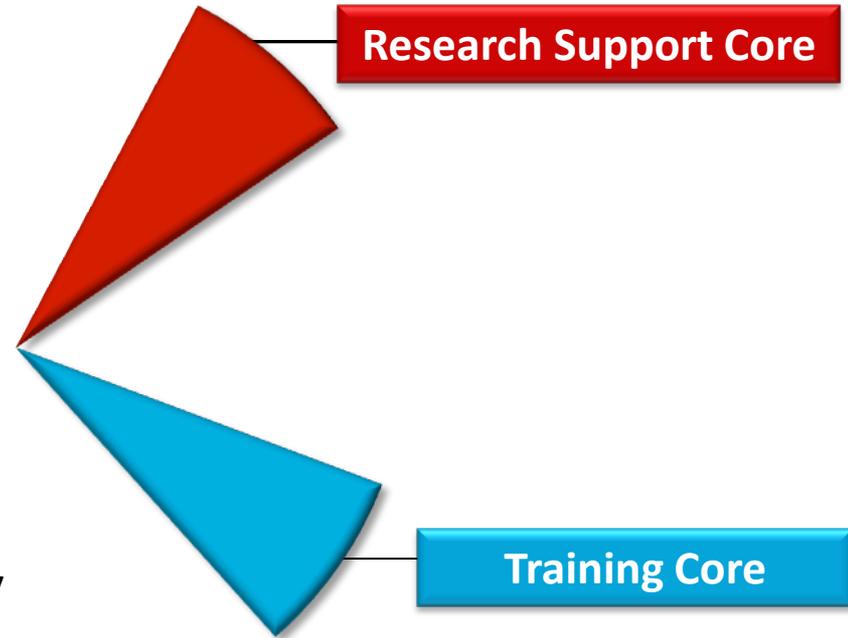
P42 Cores: Administrative

- Administrative Core
 - Planning and coordination
 - Promote cross-discipline interaction
 - Oversee fiscal management
 - Quality management
- External Advisory Committee
 - Provides Guidance to Director
 - Merit of the research
 - Relevance and importance of the center components
 - Integration of research across disciplines
 - Effectiveness of research translation
 - Appropriateness of community engagement and training activities
 - Anticipated Members
 - Academics, Stakeholders (EPA/ATSDR, Industry, Community)



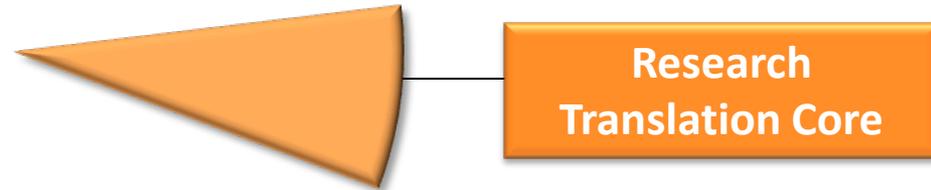
P42 Cores: Research Support, Training

- Research Support Core
 - Provides centralized services
 - Requirement: ≥ 1 core
 - Shared by at least 2 projects
 - E.g.: Analytical, statistical, etc.
- Training Core (optional)
 - Graduate level
 - Cross-disciplinary
 - Communicating research effectively
 - Involvement in Research Translation, Community Engagement, etc
 - Achieves program integration



P42 Cores: Research Translation (RTC)

- Purpose: 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.
- *Required!!!*



Plan for Four Components (required)

1. Communicating within SRP
 - Translation plan for EACH Project
2. Partnerships with Government Agencies
 - EPA/ATSDR a priority, but not a requirement
3. Technology Transfer
4. Information Dissemination to Other End-Users



P42 Cores: Research Translation (RTC)

1. **Communicating within SRP**
 - Translation plan for EACH Project
2. **Partnerships with Government Agencies**
 - EPA/ATSDR a priority, but not a requirement
3. **Technology Transfer**
4. **Information Dissemination to Other End-Users**

Possible End-Users

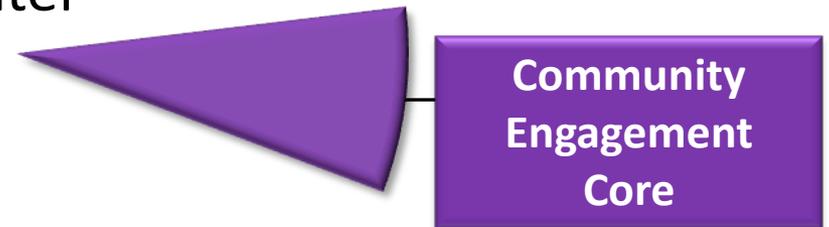
- formal/informal educational groups,
- hazardous waste practitioners,
- the lay public,
- other academic researchers, etc.

Examples:

- Educational materials,
- Web sites, webinars
- Monitoring and screening

P42 Cores: Community Engagement (CEC)

- Purpose: enhance the exchange of knowledge and to support the needs of the community with regard to the science emanating from the Center
- Required



Target communities

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

CEC activities should involve members of the affected community and may also include: local government, tribal councils, community service groups, non-governmental organizations

P42 Cores: Community Engagement (CEC)

CEC in Practice

Appropriate objectives:

- capacity building
- developing tools/resources
- facilitating bidirectional exchange, etc.

Examples of CEC activities:

- Partnering with tribes to determine exposures pathways relevant to their traditional and cultural practices
- Assisting a community in accessing pertinent information
- Providing scientific expertise in response to a community's questions
- Conducting coursework and community-based service projects

Note: A *Community Engagement Component Statement* must be included in application.

(See: <http://tools.niehs.nih.gov/srp/1/Funding/Application%20Guidelines%20ES-10-010%2011-3-10%20final.pdf>)

P42 Cores: RTC vs CEC



Research
Translation Core



Community
Engagement Core

Attributes

- Initiated by the RTC
- Based on research “product”
- Opportunistic and Rapid Response

Attributes

- Bidirectional: Partnership-driven
- Finite/Defined Activities

P42 Multi-Project Centers

Emphasis on Multidisciplinary and Interdisciplinary Nature of Center

- Review Criteria (From RFA):
 - Interdisciplinary:
 - projects integrated around a central theme
 - plans for development of interdisciplinary collaboration among **all** components of the Center
 - Coordination:
 - Between all projects and cores?
 - Translation of research findings to appropriate audiences?
 - Synergy:
 - Is the whole greater than the sum of the parts?
 - Interaction:
 - Health and Non-Health

Application Tip:

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

P42 Multi-Project Centers

- New to this RFA
 - 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.
 - New Applicants – up to 4 years
- Recent Changes
 - Research Translation Core
 - Translation plan for each project
 - Research Strategy (12 page limit)
 - Review Scoring System
 - One Resubmission

Unchanged Characteristics

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

P42 Multi-Project Centers

- Announcement:
 - RFA-ES-10-010: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-010.html>
- Applications Details
 - One application per institution
 - Letters of Intent: March 16, 2011
 - Due Date: April 15, 2011
 - Scientific Review: October, 2011
 - Criteria: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-010.html#_Section_V_Application
 - Awards Start Date: April, 2012
- Application Guidelines:
 - <http://tools.niehs.nih.gov/srp/1/Funding/Application%20Guidelines%20ES-10-010%202011-3-10%20final.pdf>
- Staff Consultation Highly Recommended (In person or teleconference)

P42 Multi-Project Centers

Topics of Interest

- Mandates
 - Health Effects Research: Advanced techniques for the detection, assessment, and evaluation of the effect of hazardous substances on human health
 - Risk Assessment Research: Methods to assess the risks to human health presented by hazardous substances
 - Detection Research: Methods and technologies to detect hazardous substances in the environment
 - Remediation Research: Basic biological, chemical, and physical methods to reduce the amount and toxicity of hazardous substances
- Stakeholders
 - investigators should seek input from stakeholders during proposal development, identifying critical issues for which fundamental science is needed

See “Suggested Research Topics:”

<http://tools.niehs.nih.gov/srp/1/Funding/Suggested%20Research%20Topics%20ES-10-010%2011-4-10.pdf>

P42 Multi-Project Centers

Hazardous Substances

- Drivers of Risk at Hazardous Waste Sites
 - hazardous substances found at Superfund sites;
 - hazardous breakdown products formed in environmental media;
 - hazardous metabolites formed in humans or in experimental animal models
- Emerging Concern to Superfund
 - Demonstrate how results gained from the studies are relevant to Superfund or lead to better decision making for risk assessors and remediation managers at Superfund sites
 - e.g. high production volume agents with demonstrated potential for human health and environmental impact; or chemicals with structural similarity to the CERCLA Priority List of hazardous substances; and

CERCLA Priority List: <http://www.atsdr.cdc.gov/cercla>

P42 Multi-Project Centers

- Other Resources:

- RFA Webpage: <http://www.niehs.nih.gov/research/supported/srp/funding/rfa.cfm>

- Application Guidelines
- Research Topics

- SRP Website:

- Other Centers
- Outreach and Translation Cores: <http://tools.niehs.nih.gov/srp/outreach/outreach2.cfm>

The screenshot shows a web browser window displaying the NIEHS website. The address bar shows the URL <http://www.niehs.nih.gov/research/supported/srp/funding/rfa.cfm>. The browser's address bar also shows a search for "RFA-ES-10-010". The website header includes the NIEHS logo and the text "National Institute of Environmental Health Sciences – National Institutes of Health". A search bar is visible with the text "Search NIEHS" and a "GO" button. The main navigation menu includes links for HOME, HEALTH & EDUCATION, RESEARCH, FUNDING OPPORTUNITIES, CAREERS & TRAINING, NEWS & EVENTS, and ABOUT NIEHS. The main content area is titled "Multiproject Program Grants (P42)" and "Superfund Research Program". The text describes the 2010 RFA, stating that NIEHS proposed the continuation of the Superfund Hazardous Substance Research and Training Program (SRP) to address the broad, complex health and environmental issues that arise from the multimedia nature of hazardous waste sites. It mentions that grants made under the SRP are for coordinated, multi-project, multi-disciplinary programs. The objective remains to establish and maintain a unique Program that links and integrates biomedical research with related engineering, hydrogeologic, and ecologic components. The 2010 RFA was released on October 29, 2010. The application deadline for the 2010 Request for Applications (RFA) for the Multiproject Program (P42) grants is April 15, 2011. A list of resources is provided, including the RFA-ES-10-010: Superfund Hazardous Substance Research and Training Program (P42) - [html version](#) (184 KB), [Application Guidelines](#) (184 KB), and [Suggested Research Topics](#) (52 KB).

P42 Multi-Project Centers

NIEHS Contacts:

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Grants Management:

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Michelle Victalino, victalinom@niehs.nih.gov, (919) 316-4666

Scientific Review:

Janice Allen, allen9@niehs.nih.gov, (919) 541-7556

Budget

NIEHS GRANTS MANAGEMENT

LISA EDWARDS, MA

Budget Preparation

Form Pages, Approvals, Other Support, Notices

- Forms (<http://grants.nih.gov/grants/forms.htm>)
 - P42 – PHS 398, paper
 - R01, 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-11-003](#)
- Salary caps: [NOT-OD-10-041](#)

Just in Time: Request for information prior to award.

Budget Preparation

- Parent Grant Direct Costs
 - Does NOT include third party F&A
 - Consideration of *equipment* in the out-years will be based upon justification and availability of funds
- Subcontracts
 - must follow same guidelines as above ; budget pages required
 - Subcontract direct costs are included in the parent grant Total Direct Costs, which may be subject to budget caps
 - F&A of subcontract is included in Indirect Costs of parent grant
- Budget Justifications
 - Be detailed and specific
 - Are all costs itemized?
 - Are all additions and changes in future years fully justified?
 - Are all time and effort percentages >0?

Budget Preparation

Applies Only to P42 Budget

Non-Modular

Provide detailed categorical budgets

- Each Project
- Each Core
- Each 3rd Party Participant

ALL Budgets should be together in Part 1 of the application

ALL Budget Pages should be labeled

Escalation

Allowed 3% 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

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			INST.BASE SALARY	DOLLAR AMOUNT REQUESTED (omit cents)		
NAME	ROLE ON PROJECT	Cal. Mnths	Acad. Mnths	Summer Mnths		SALARY REQUESTED	FRINGE BENEFITS	TOTAL
Project 1 — PL Messier						113,969	36,272	150,241
Project 2 — PL Kasparaitis						104,157	35,677	139,834
Project 3 — PL Granato						85,521	25,987	111,508
Project 4 — PL Rheaume						101,818	23,918	125,736
Project 5 — PL Gretzky						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
SUBTOTALS →						855,805	244,470	1,100,275
CONSULTANT COSTS								
Core A -- \$4,000								4,000
EQUIPMENT (Itemize)								
Core B -- \$7,000								7,000
SUPPLIES (Itemize by category)								
Project 1 -- \$36,000		Project 4 -- \$29,003		Core A -- \$ 3,807		Core D -- \$ 4,110		
Project 2 -- \$35,478		Project 5 -- \$17,000		Core B -- \$48,000		Core E -- \$ 1,692		
Project 3 -- \$35,662		Core C -- \$ 2,777						213,529
TRAVEL								
Project 1 -- \$3,000; Project 2 -- \$3,500; Project 3 -- \$2,500; Project 4 -- \$5,000; Project 5 -- \$3,100								
Core A -- \$7,000; Core C -- \$6,945; Core D -- \$5,000; Core E -- \$8,000								44,045
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						46,594
CONSORTIUM/CONTRACTUAL COSTS						DIRECT COSTS		120,000
SUBTOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Item 7a, Face Page)								\$ 1,535,443
CONSORTIUM/CONTRACTUAL COSTS						FACILITIES AND ADMINISTRATIVE COSTS		52,000
TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD								\$ 1,587,443

Composite Budget

Note:
Use PHS 6/09 Forms

Composite Budget:
All Years

Composite Budget Program Director/Principal Investigator (Last, First, Middle): Messier, Mark

BUDGET FOR ENTIRE PROPOSED PROJECT PERIOD
DIRECT COSTS ONLY

BUDGET CATEGORY TOTALS		INITIAL BUDGET PERIOD (from Form Page 4)	ADDITIONAL YEARS OF SUPPORT REQUESTED			
			2nd	3rd	4th	5th
PERSONNEL: <i>Salary and fringe benefits. Applicant organization only.</i>		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	219,935	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	47,992	49,432	50,915	52,442
CONSORTIUM/ CONTRACTUAL COSTS	DIRECT	120,000	104,045	109,162	112,905	116,686
SUBTOTAL DIRECT COSTS <i>(Sum = Item 8a, Face Page)</i>		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

**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			INST. BASE SALARY	DOLLAR AMOUNT REQUESTED (omit cents)		
NAME	ROLE ON PROJECT	Cal. Mnths	Acad. Mnths	Summer Mnths		SALARY REQUESTED	FRINGE BENEFITS	TOTAL
Mark Messier	Principal Investigator	1.8			126,272	18,941	5,166	24,107
Mike Richter	Co-PL	0.6			186,600	9,330	2,357	11,687
Claude Lemieux	Co-PL	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-Kersee	Graduate Assistant	12			20,000	20,000	2,810	22,810
Michael Phelps	Lab Tech	6			25,000	12,500	6,560	19,060
Tonya Harding	Lab Tech	6			26,000	13,000	6,666	19,666
SUBTOTALS →						113,969	36,272	150,241
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								36,000
TRAVEL								
PL, postdocs and grad students to attend SRP annual meeting								3,000
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			

Individual Project Budget

Note:
Use PHS 6/09 Forms

Review

NIEHS SCIENTIFIC REVIEW

JANICE ALLEN, PHD (2011 P42 REVIEW)

SALLY ECKERT-TILOTTA, PHD (2011 RO1 REVIEW)

SBIR/STTR, R01 Review Process

- SBIR/STTR
 - No letter of intent, but applicants encouraged to contact Program staff
 - NIH assigns application to standing study section
 - Ad hoc reviewers are added as needed for specific expertise
 - Review Criteria SBIR: <http://grants.nih.gov/grants/guide/pa-files/PA-10-050.html#SectionV>
 - Review Criteria STTR: <http://grants.nih.gov/grants/guide/pa-files/PA-10-051.html#SectionV>
- R01
 - Applications are reviewed by a special emphasis panel convened by NIEHS
 - All reviewers selected based on the expertise required to review the applications
 - Review Criteria: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-11-005.html#_Section_V_Application

SBIR/STTR, R01 Review Process

- **Scored Review Criteria***
 - Significance
 - Investigator(s)
 - Innovation
 - Approach
 - Environment
- **Additional Review Criteria**
 - Protections for Human Subjects
 - Incl. Women, Minorities and Children
 - Vertebrate Animals
 - Biohazards
- **Overall Impact Score**
- **Additional Review Considerations**
 - Resource Sharing Plans
 - Budget and Period of Support

Criterion Scores

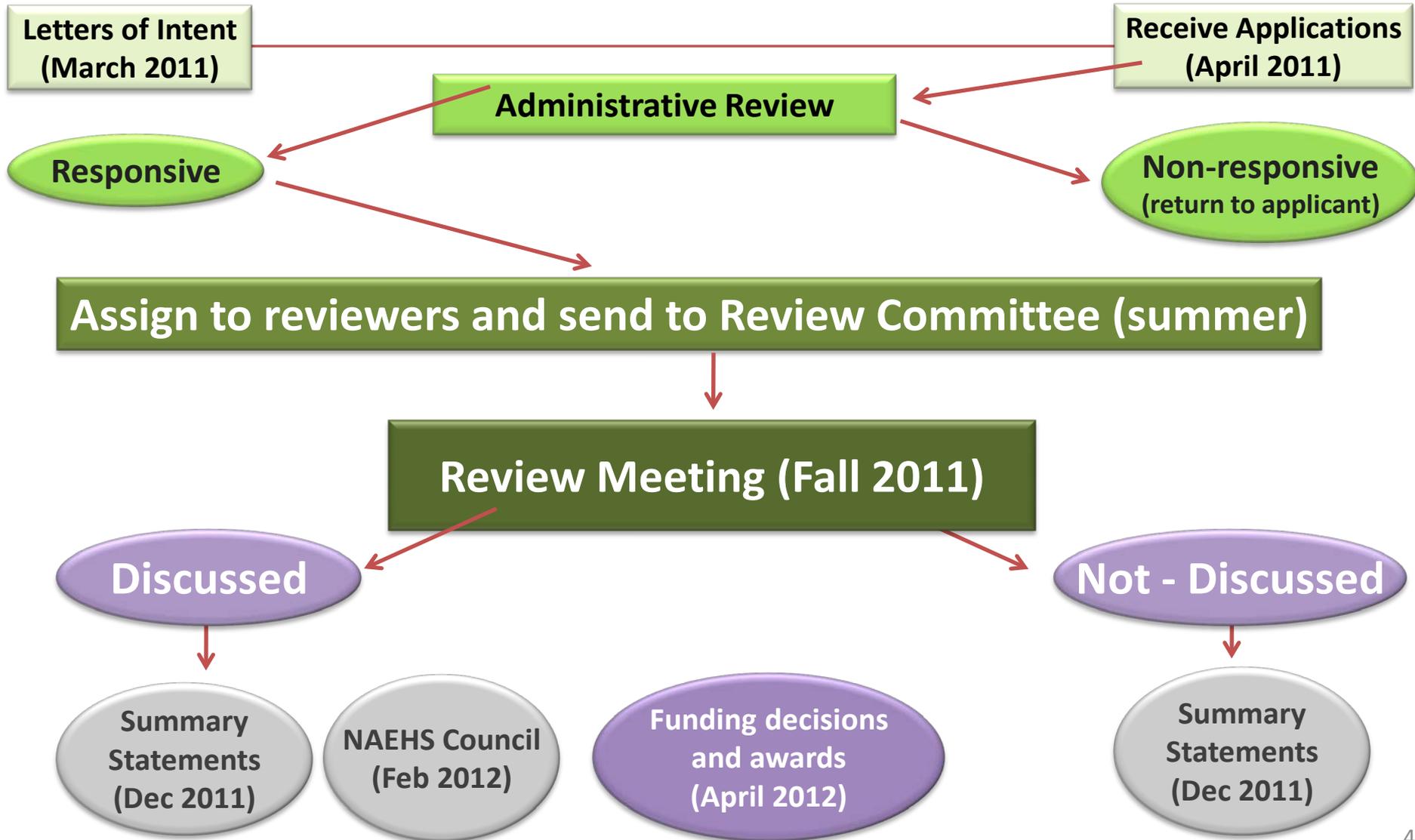
* Each assigned reviewer provides scores (1-9) for each criterion. The Overall Impact Score is NOT an average of these Criterion Scores.

Summary Statement

Scored: will include impact score (10-90), summary of discussion, and each reviewer's review criteria scores with bulleted descriptions.

Not Discussed: will include each reviewer's review criteria scores with bulleted descriptions

P42 Application and Review Process



P42 Application and Review Process

- Letters of Intent
 - 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:
 - Email to Dr. Allen: Allen9@niehs.nih.gov
 - Requested by March 16, 2011 (Not Required)

Reviewers' Areas of Expertise, Including....

- Toxicology (all types)
- Epidemiology
- Biostatistics
- Bioinformatics
- Exposure Assessment
- Molecular Biology
- Fate & Area Transport
- Genomics
- Molecular Toxicology Design
- Structural/Integrative Biology
- Pathobiology
- Chemistry
- Hydrogeology
- Ecology
- Molecular Biophysics
- Translational Research
- Microbiology
- Engineering
- Remediation (Bio-, Physical, Chem-, Phyto-)
- Community Engagement / Communication

P42 Review Process

- Two Levels
 - I: Review of Projects, Cores
 - II: Review of Overall Center
- Review Criteria
 - NIH's Five Core Criteria: Significance, Investigator, Innovation, Approach, Environment
 - Additional P42-specific criteria per phase
 - Project / Cores:
 - e.g. "contribution to overall center"
 - Other criteria specific to the type of project or core (see RFA)
 - Overall Center:
 - Multidisciplinary and Interdisciplinary Nature of Center
 - Other criteria for renewal applications
 - Review Criteria: http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-010.html#_Section_V_Application

P42: Project / Core Impact Score

- Significance
- Investigator
- Innovation
- Approach
- Environment

NIH's Five
Review
Criteria

- Additional SRP Review
Criteria
 - Contribution to overall
goals of application
 - Other Specific Criteria

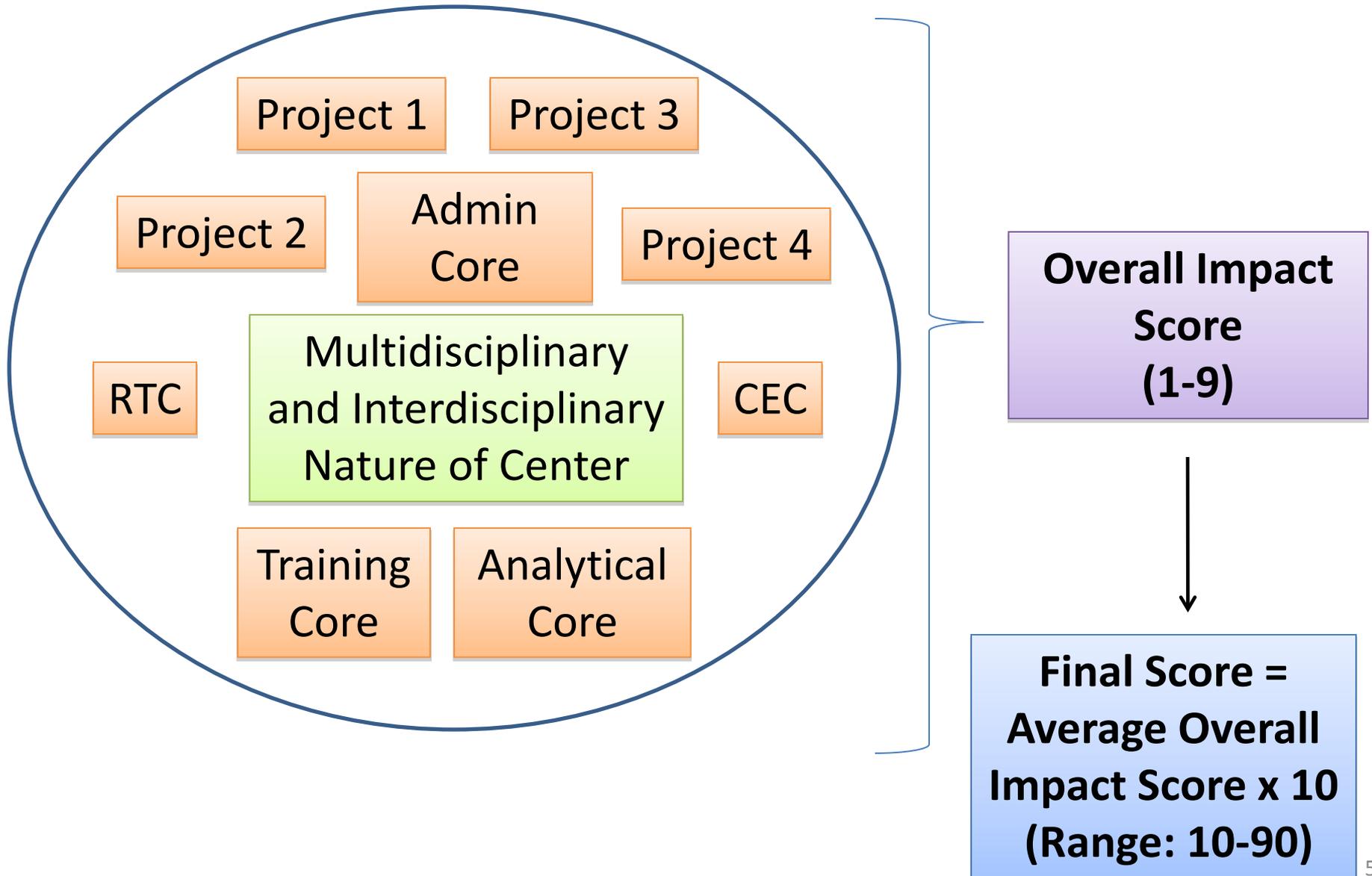


Impact Score
(1-9)

*Each Project / Core Reviewed.
Each Receive Impact Score.*

Note: Human Subjects, Animal Care, and Biohazards may be considered in the scoring. Budget Concerns are not considered in scoring.

P42 Overall Impact Score



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

P42 Specific

- Highlight:
Multi/interdisciplinary,
synergy, innovative...
- Explain how "it" fits
together as a center
- Exclude weak projects

Final Note...

Changes affecting application submissions as of January 25, 2011;

[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-11-007](#): NIH, AHRQ, CDC, FDA & NIOSH to Require Use of Updated Electronic Application Forms in 2011

[NOT-OD-10-140](#): New Time Limit for NIH Resubmission Applications

[NOT-OD-10-135](#): Enhancing Peer Review: Reminder of and Correction to Previous Notice on A2 Resubmission Opportunities for Eligible Applications

[NOT-OD-10-123](#): NIH, AHRQ, and NIOSH to Eliminate Error Correction Window for Due Dates On or After January 25, 2011

[NOT-OD-10-115](#): Enhancing Peer Review: New NIH Policy on Post-Submission Application Materials

[NOT-OD-10-077](#): Policy Reminder Concerning Appendix Materials for All NIH/AHRQ/NIOSH Grant Applications

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

Acknowledgements

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Scientific Review

Janice Allen
Sally Eckert-Tilotta

Michael Adam, EPA/OSWER
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

United States Environmental Protection Agency Technology Innovation Program

U.S. EPA Technical Support Project Engineering Forum
Green Remediation: Opening the Door to Field Use Session C (Green Remediation Tools and Examples)
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