

"Workshop on University- Science Center Partnerships"

SEPA Science Education Partnership Award

L. Tony Beck, Ph.D
Division for Clinical Research Resources
National Center for Research Resources
National Institutes of Health

SEPA PHILOSOPHY

- Encourages and supports the interactions of scientists and clinicians with educators, community organizations and science centers to:
 - increase the participation of young people in clinical and basic research careers
 - improve K-12 and public understanding of, and support for, NIH funded medical research

SEPA MODELS

Formal (~50 projects)

- K-12 students, teachers, parents
- Small numbers, high contact mode
- Community outreach

Informal (~20 projects)

- Science Centers and Museums
- Huge numbers, moderate contact mode
- Public outreach

SEPA PROJECT DIVERSITY

- Scope of activity = Any topic supported by NIH funding

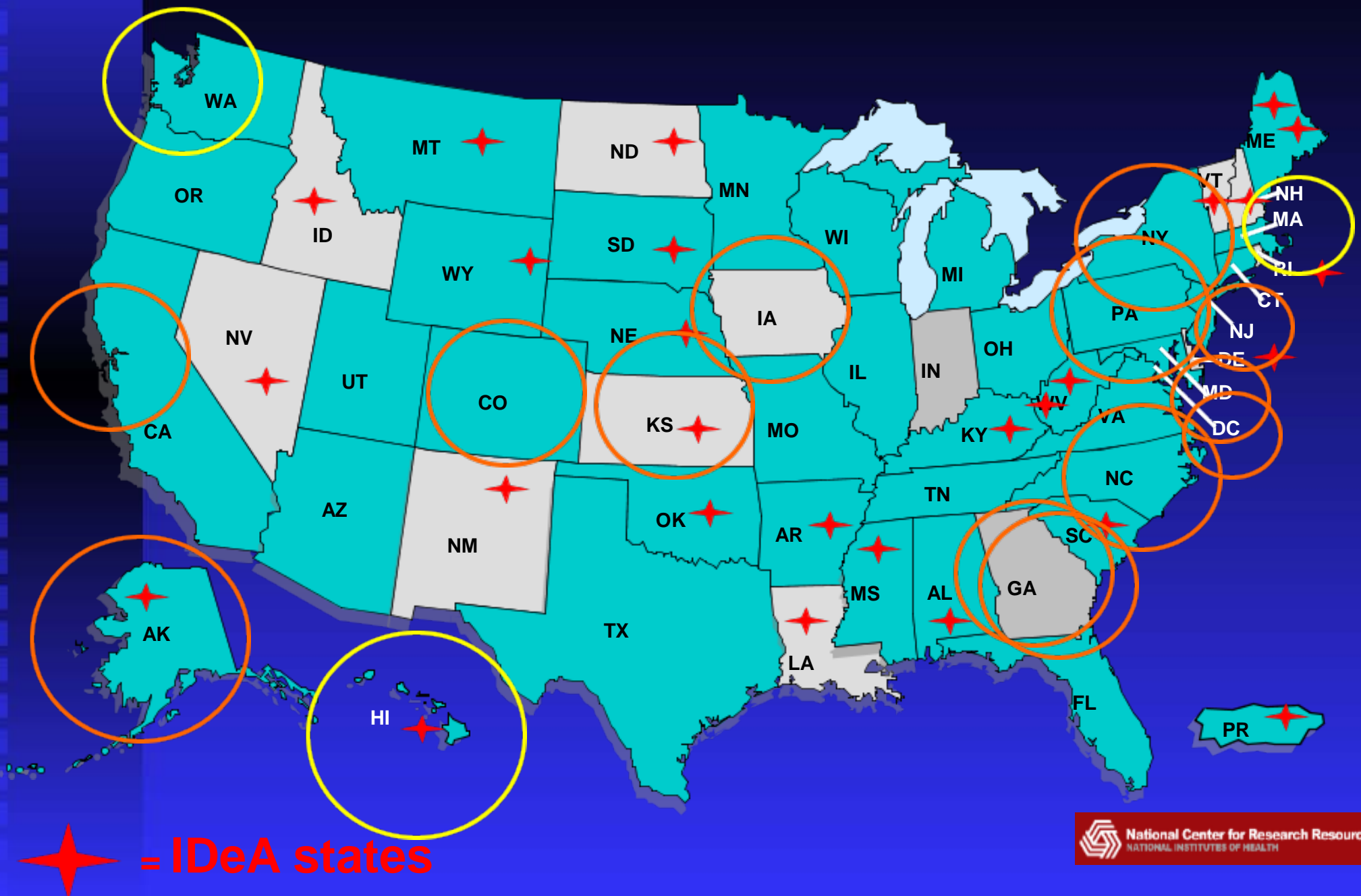
SEPA INSTITUTIONS

- Universities, colleges and community colleges
- Public and private school systems
- Professional organizations
- Scientific societies
- Museums and Science Centers
- Research institutes
- Private foundations
- Non-profit organizations

SEPA FUNDING

- R25 [Educational] funding mechanism
- FY 2008 Budget = \$16,009,000
- \$250K/year + 8% F&A
- **Phase I - 3 years**
 - Development and evaluation of biomedical and/or basic science models
- **Phase II - 2 years**
 - Develop, implement and evaluate effective strategies for dissemination
- **Phase I + II --- 5 years @ ~ \$1.3M**

States with SEPA Awards



SEPA Evaluation

- **1999**
 - Applications **should** have an **Evaluation Plan**
- **2003**
 - Applications **must** have a **detailed Evaluation Plan**
 - The Evaluation Plan should be an **integral component** of the early planning stages and must **continue through the life** of the SEPA project.
 - A **minimum of ten percent (10%) of the direct costs** budget should be devoted to project evaluation.
 - The use of **external evaluators is required** unless a valid justification can be made for an internal evaluation team.
- **2006**
 - At least one component of the evaluation plan must assess the impact of the project **using rigorous methods, such as a randomized controlled trial (RCT) or a well-matched comparison-group study design.**



SEPA 2006

NCRR Science Education Partnership Award
Annual Conference

Salt Lake City, Utah October 19-21



NCRR Science Education Partnership Award
Annual Conference

Washington, DC
May 19 - 21, 2008

[Home](#) [Schedule](#) [Lodging](#) [Travel](#) [Registration](#) [Contact](#)

Welcome to SEPA 2008

All Principal Investigators of current SEPA projects are required to attend or send a representative; others who are involved in the project are welcome and encouraged to attend.



Office of Portfolio Analysis and Strategic Initiatives
National Institutes of Health

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Evaluation Branch (EB)



National Center for Research Resources
NATIONAL INSTITUTES OF HEALTH

SEPA Evaluation and NIH K-12 Stem

Academic Competitiveness Council (ACC)

- National Science and Technology Council (NSTC)
Subcommittee on STEM Education
 - Dr. Duane Alexander, NICHD
 - Dr. Cora Marrett, NSF
 - Dr. Russ Whitehurst, Dept. of Ed.

- SEPA = High Leverage Program
represented NIH K-12 STEM programs

SEPA News

- ▶ [NCRR Reporter Fall 2007](#)
- ▶ [New 2007 SEPA Awards](#)
- ▶ [New SEPA Publications](#)
- ▶ [News in SEPA Community](#)
- ▶ [Annual Program Meeting](#)
- ▶ [SEPA Newsletters](#)

SEPA Funding Opportunities

- ▶ [Current RFA PAR-06-549](#)
Release Date: September 13, 2006

Resources

- ▶ [For Teacher](#)
- ▶ [For Student](#)
- ▶ [For Investigator](#)
- ▶ [For Families](#)



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[Advance Search](#)



[More Information](#)

About The SEPA Program

The Science Education Partnership Award (SEPA) Program funds grants for innovative educational programs. Such projects create partnerships among biomedical and clinical researchers and K-12 teachers and schools, museums and science centers, media experts, and other educational organizations. SEPA is sponsored by the National Center for Research Resources (NCRR), part of the National Institutes of Health (NIH). This website offers:

- K-12 & university level educational resources (such as classroom curricula, equipment, workshops, museum exhibits, and educational films, software, and websites) developed by SEPA grantees for teachers, students, families, and the general public
- Free downloadable classroom curricula directly from this website for teachers
- Information for potential SEPA grant applicants & current Project Investigators
- Descriptions, contact info, and website links for past and current SEPA projects

Headlines



[NCRR Science Education Partnership Award Annual Conference 2008](#)
May 19-21, Washington, DC



[Fourth Annual Mobile Laboratory Coalition Conference](#)

SEPA Events Calendar

May 2008							
<	27	28	29	30	1	2	3
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	
1	2	3	4	5	6	7	

[View Full Calendar](#)

Upcoming Events

[UTHSCSA TEI workshop: What are the Odds?](#)

April 5, 2008 San Antonio, TX

[DNA Day 2008](#)

April 25, 2008 Oklahoma, OK

[SEPA 2008 Conference](#)

May 19-21, 2008, Washington DC / Rockville

[NAHSEP Executive Committee](#)

May 21-22, 2008, Washington DC

[HEADS UP Teacher Summer Science Institute Workshop](#)

Application Deadline: April 30, 2008

SEPA PHILOSOPHY

interactions of scientists and clinicians with educators, community organizations and science centers

Institution – University/Medical Center



K-12 & Science Centers & Museums

University Science Center Partnerships



Health Science Education Partnership
Museum of Science Boston

Carol Lynn Alpert

University Science Center Partnerships



Health Science Education Partnership
Museum of Science Boston

Carol Lynn Alpert

SEPA interactive kiosks

**Maryland Sci
Ctr
Exploratorium**

University Science Center Partnerships



Health Science Education Partnership
Museum of Science Boston

Carol Lynn Alpert

**NSF Nanomedicine
funding**

SEPA interactive kiosks

**Northeastern
University**

**Maryland Sci
Ctr
Exploratorium**

**SEPA interactive kiosks + NSF nanotech
curricula**

University Science Center Partnerships



Bodylink: A Health Sciences Update Center
Grant No: R25RR015602
URL: <http://www.mdsci.org/exhibits/bodylink.html>
Maryland Science Center

Johns Hopkins
University

University Science Center Partnerships



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Johns Hopkins
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Cellular Universe: The Promise of Stem Cells
Maryland Science Center
ROBERTA COOKS

University Science Center Partnerships



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Johns Hopkins
University



Cellular Universe: The Promise of Stem Cells
Maryland Science Center
ROBERTA COOKS

JHU CTSA

What motivates Institutions?

Institution – University/Medical Center



K-12 & Science Centers & Museums

- *good will?*
- *institutional culture?*
- *individual scientist interest?*
- *BOD mandate?*
- *Funding agency mandate?*
- *Funding mechanism mandate?*

What motivates Institutions?

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Clinical and Translational Science Awards

Clinical and Translational Science Awards (CTSA)

- Consortium
 - Transform how clinical and translational research is conducted
 - Encourage the development of new methods and approaches
 - Provide new treatments more efficiently and quickly
- Goals:
 - Improve training and mentoring
 - Share best practices
 - Partnerships with private and public health care organizations
 - Community Engagement

SEPA and the CTSA's

2006 Awardees

- Columbia University Health Sciences
- Duke University
- Mayo Clinic College of Medicine
- Oregon Health & Science University
- Rockefeller University
- University of California, Davis
- University of California, San Francisco
- University of Pennsylvania
- University of Pittsburgh
- University of Rochester
- University of Texas Health Science Center at Houston
- Yale University

SEPA and the CTSA's

2007 Awardees:

- Case Western Reserve University
- Emory University
- Johns Hopkins
- University of Chicago
- University of Iowa
- University of Michigan
- University of Texas Southwestern Medical Center
- University of Washington
- University of Wisconsin
- Vanderbilt University
- Washington University
- Weill Cornell Medical College

University Science Center Partnerships



OHSU SEPA



OHSU Primate
Center



OHSU CTSA

University Science Center Partnerships



OHSU SEPA



OHSU Primate
Center



OHSU CTSA

Body Worlds II

University Science Center Partnerships



Peabody Fellows Program

PEABODY MUSEUM OF NATURAL HISTORY - YALE UNIVERSITY

Curricula Modeled on Biodiversity & Vector-Borne Disease

Grant No: R25RR020818

URL: <http://www.peabody.yale.edu/education/fellows/index.html>

Yale University, Peabody Museum of Natural History



Yale Clinical and Translational Institute

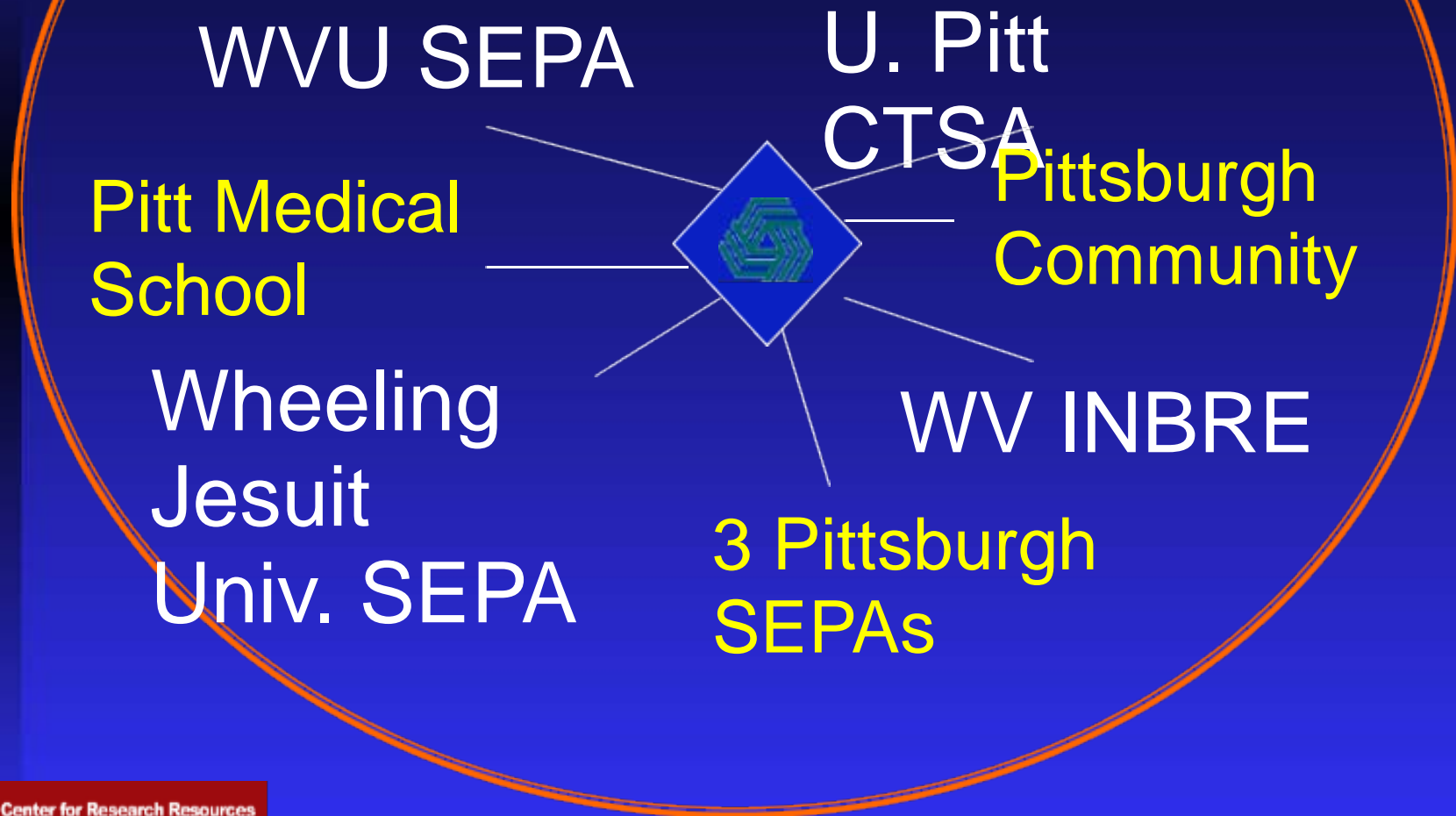
Public Forum on
Lyme Disease

Meet the experts
and
ask questions



Attendees provide blood sample = Clinical Trial data

NCRR model – 1 of 16 potential partnerships



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What motivates Institutions?

FUNDING OPPS

- SEPA FY 2008 Budget = \$16,009,000
- SEPA FY 1998 Budget = \$4,000,000
- Greg Andorfer/ASTC 'educational' efforts and Congress
- Congressman John Porter, IL
- SEPA budget increased 3X from \$4M to \$12M

SEPA FUNDING OPPS

- SEPA PAR-06-549
- R25 [Educational] funding mechanism
- \$250K/year + 8% F&A
- 5 years @ ~ \$1.3M\
- Receipt Date is Sept 14, 2008
- Review Feb/Mar 2009
- Awards June/July 2009

- L. Tony Beck, Ph.D.
Program Officer
Division for Clinical Research Resources
National Center for Research Resources
6701 Democracy Blvd, Room 916
Bethesda, MD 20892-4874 (20817 for courier deliveries)
(301) 435-0805, (301) 480-3661 FAX
- email: beckl@mail.nih.gov
- www.ncrr.nih.gov
- www.ncrrsepa.org