

Inventory of Federal School Environmental Health Activities

Prepared by the

Schools Workgroup

of the

President's Task Force on Environmental Health Risks
and Safety Risks to Children

Inventory of School Environmental Health Activities

President's Task Force on Environmental Health Risks and Safety Risks to Children Schools Workgroup

Introduction

Executive Order 13045 required all federal departments and agencies to make children's health a priority and created the President's Task Force on Environmental Health Risks and Safety Risks to Children. The Task Force has published national strategies for addressing childhood asthma and lead hazards, and has coordinated activities related to childhood injuries, childhood cancer, and development of a database of children's health research. The Task Force also supports developmental activities associated with the National Children's Study. In October 2001, the Task Force created a Schools Workgroup to identify opportunities for federal departments and agencies to better coordinate school environmental health programs and activities.

The Schools Workgroup is developing an interagency strategy for addressing environmental health and safety risks to children in schools. In support of this effort, the Schools Workgroup compiled the Inventory of School Environmental Health Activities ("the Inventory") to identify and catalogue existing federal programs related to children's environmental health in schools.

For purposes of this inventory, "**school environmental health issues**" are those that may result in exposure (and therefore potential reductions in health and/or performance) of students, staff or visitors to environmental contaminants originating either outdoors or indoors, such as chemicals, allergens, pesticides, particles, gases, UV radiation or other contaminants that may be found in and around school environments, including student transportation. Building factors that may affect these exposures such as ventilation, energy efficiency, design decisions, operation and maintenance policies and practices and other related influences are also included. Other factors which are often referred to as "environmental" such as acoustics and daylighting are included, as appropriate, within this context.

The Inventory cannot and does not purport to provide a complete list of all activities that touch on environmental issues in schools, nor does it attempt to capture the much broader set of health and safety issues of importance to the school community.

The Schools Workgroup will periodically update the Inventory as new information on relevant programs becomes available. To contribute program information to the Inventory, please contact Bob Axelrad of the U.S. Environmental Protection Agency by email at: axelrad.bob@epa.gov or by phone at (202) 564-9315.

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Inventory of School Environmental Health Activities¹

U.S. Department of Agriculture	
Cooperative State Research Education and Extension Service Natural Resources and Environment	
<p>Contact: Dr. Joseph Wysocki, National Program Leader, Indoor Environments, CSREES-NRE, 1400 Independence Avenue, SW (MS 2210), Washington, DC 20250-2210, Tel: 202-401-4980, Fax: 202-401-1706, Email: jwysocki@reeusda.gov</p>	<p>Statutory Authority: Morrill Act of 1862 USC Title 7, Chp 13, Sec 301 and 1890 USC Title 7, Chp 13, Sec 321; Hatch Act of 1887, USC Title 7, Chp 14, Sec 361a; Smith-Lever Act of 1914, USC Title 7, Chp 13, Sec 341</p>
<p>Program Title/Description: Cooperative State Research Education and Extension Service - Provides program leadership, including education, administration of Federal assistance and awards programs, to support university and other institutional-based research activities centered on advancing community understanding of <u>agriculture</u>, the <u>environment</u>, human <u>health</u>, and well being. For more information, visit: http://www.reeusda.gov.</p>	
Key Projects/Resources:	Collaborating Organizations:
<p>Healthy Indoor Air for America’s Homes utilizes a Land-Grant University network of over 9,000 state extension agents to provide citizens with knowledge about agriculture, the environment, human health and well being, accomplished by distributing educational resources, including money, publications, and research networks. For more information, visit: http://www.montana.edu/wwwcxair.</p>	<p>Extension agents in 47 states</p>
<p>The MT Extension service produced a resource book that provides program information on agriculture and the environment.</p>	<p>Univ. of MT</p>
<p>Train-the-Trainer workshops are designed to train professionals, such as teachers, extension agents, and state housing and health agents, how to effectively communicate the hazards of poor indoor air quality in homes to consumers, usually parents.</p>	
<p>Healthy Homes. For more information, visit: http://www1.uwex.edu/healthyhome/tool.</p>	<p>U.S. EPA, Dept. of Housing and Urban Development, MT State Univ. Extension, Univ. of WI-Madison Extension</p>

¹For purposes of this inventory, “**school environmental health issues**” are those that may result in exposure (and therefore potential reductions in health and/or performance) of students, staff or visitors to environmental contaminants originating either outdoors or indoors, such as chemicals, allergens, pesticides, particles, gases, UV radiation or other contaminants that may be found in and around school environments, including student transportation. Building factors that may affect these exposures such as ventilation, energy efficiency, design decisions, operation and maintenance policies and practices, and other related influences are also included. Other factors which are often referred to as “environmental” such as acoustics and daylighting are included, as appropriate, within this context.

Food Safety and Inspection Service (FSIS)	
Contact: Susan Conley, Director, Food Safety Education Staff, 1400 Independence Avenue, SW, Room 2932-S, Washington, DC 20250-3700, Tel: 202-720-7943, Fax: 202-720-1843, Email: fsis.outreach@usda.gov	Statutory Authority: Federal Meat Inspection Act, USC Title 21, Chp 12, Sec 601; Poultry Products Inspection Act; USC Title 21, Chp 10, Sec 451; Egg Products Inspection Act, USC Title 21, Chp 15, Sec 1031
Program Title/Description: FSIS Food Safety Education Staff - Provides consumers with information and educational materials to promote <u>safe food handling</u> of meat, poultry and egg products, and reduce food borne illness. For more information, visit: http://www.fsis.usda.gov .	
Key Projects/Resources:	Collaborating Organizations:
The FightBAC campaign promotes four <u>food safety education</u> messages to consumers: "Clean, Separate, Cook and Chill" that have become the basis for many national and international food safety education programs. For more information, visit: http://www.fightbac.org .	Partnership for Food Safety Education (1997), includes industry and consumer groups and Federal agency liaisons
FightBAC "Keep Food Safe from Bacteria" brochures, videos, curricula, games, magnets, bookmarks, posters, mugs, reproducible artwork, multi-lingual materials, and public service announcements, all targeted to teach children about food safety practices.	
The Food Thermometer Education Campaign (the "Thermy" campaign) was launched in May 2002 to support the BAC campaign message of "Cook" by promoting the use of food thermometers to judge when food has been cooked to a safe temperature. Partners and Food Safety Education staff provide multi-lingual educational materials, magnets, brochures, posters, puzzles, coloring pages to schools and at health fairs and related events. For more information, visit: http://www.fsis.usda.gov/thermy .	Campaign partners (manufacturers of food thermometers, retail grocery store chains, local health departments, schools, etc.)
Publications and activities for children. For more information, visit: http://www.fsis.usda.gov/oa/pubs/kidspubs.htm .	
Gateway to government food safety information. For more information, visit: http://www.foodsafety.gov .	
U.S. Department of Education	
Office of Elementary and Secondary Education (OESE)	
Contact: Mary T. Mahony, Program Specialist, School Support and Technology Programs, U.S. Department of Education 400 Maryland Avenue, SW, Washington, DC 20202-6400, Tel: 202-260-1659, Fax: 202-205- 5870, Email: mary.mahony@ed.gov	Statutory Authority: Fiscal Year 2001 Appropriations Act authorized \$1.2 billion for School Renovation, IDEA and Technology Grants, USC Title 20, Chp 70, Sec 6842
Program Title/Description: School Support and Technology Program - Funds state local education agencies (LEAs) that distribute grants on a competitive basis to fund urgent <u>school renovation</u> projects and related <u>technology</u> activities, authorized under Part B of the Individuals with Disabilities Education Act (IDEA), to benefit the <u>health and safety</u> of students and staff. For more information, visit: http://www.ed.gov/offices/OESE/goals/progresp.html .	
Key Projects/Resources:	Collaborating Organizations:
States ensure that <u>high-poverty</u> (30% + child poverty or 10,000 + poor children) and <u>rural</u> LEA's receive funding proportional to their share of Title I funds.	

Office of Elementary and Secondary Education (OESE)

Contact: Catherine Schagh, Director, Impact Aid Program, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202, Tel: 202-260-3858, Fax: 202-205-0088

Statutory Authority: Title VIII of the Elementary and Secondary Education Act (ESEA) of 1965, amended USC Title 20, Sec 7701-7714

Program Title/Description: **Impact Aid Program** - Provides funds to LEAs that have lost part of their local property tax base because of federal activities that cause real property to be exempt from taxation or serve significant numbers of federally connected children. For more information, visit: <http://www.ed.gov/offices/OESE/esea/progsum/title8.html#top>.

Key Projects/Resources:

Section 8007(a) authorizes construction grants for use in school repair, renovation projects or other capital expenditures to be awarded to local school districts and education agencies serving federally funded children, including children living on Native American lands and children of parents in the military.

Section 8007(b) authorizes competitive grants to be awarded to eligible LEAs to fund emergency repairs and modernization of school facilities, prioritizing projects that focus on improving health and safety conditions in school facilities.

Section 8008 authorizes grants to fund the maintenance and improvement of school facilities owned by the U.S. Dept. of Education in use by local school districts serving children living on military bases.

Collaborating Organizations:

U.S. Dept. of Defense

Office of Educational Research and Improvement National Library of Education

Contact: Sheila M. McGarr, Executive Director, National Library of Education, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202, Tel: 202-401-2425, Fax: 202-205-6688, Email: sheila.mcgarra@ed.gov

Statutory Authorities: Strengthening and Improvement of Elementary and Secondary Schools, USC Title 20, Chp 70, Sec 6622

Program Title/Description: **National Clearinghouse for Educational Facilities (NCEF)** - Provides information resources on issues relating to school facilities, including design, construction, maintenance, renovation, rehabilitation, and mechanical operation, as well as technical matters, such as wiring, heating, plumbing, lighting, health and safety features and environmental standards. For more information, call 1-888-552-0624 or 202-289-7800, email: ncef@nibs.org, or visit: <http://www.edfacilities.org>.

Key Projects/Resources:

NCEF provides resource lists on topics relating to school facilities, including classroom acoustics, daylighting, asbestos in schools, indoor air quality, pesticides and Integrated Pest Management (IPM), offers links to related articles, that can be downloaded and printed in HTML, PDF or ordered in hard copy, and provides a forum for posting and viewing school-related conferences, events and other notices.

Collaborating Organizations:

Office of Educational Research and Improvement National Center for Education Statistics (NCES)

Contact: Lee Hoffman, Program Director, Elementary/Secondary Cooperative System and Institutional Studies, National Center for Education Statistics, 1990 K Street, NW, Room 9094, Washington, DC 20006-5651, Tel: 202-502-7356, Fax: 202-502-7475, Email: lee.hoffman@ed.gov

Statutory Authorities: The Hawkins-Stafford Education Improvement Amendments 1988 (PL 100-297)

Program Title/Description: **National Cooperative Education Statistics System (Cooperative System)** - Organized and maintained by the National Forum on Education Statistics to collect and report elementary and secondary education statistics used for policy-making at the federal, state, and local levels to address issues in education data policy. For more information, visit: <http://nces.ed.gov/forum/ncess.asp>.

Key Projects/Resources:	Collaborating Organizations:
<p>The Education Facilities Task Force is producing a handbook titled “Facilities Information Management: A Guide for State and Local Education Agencies,” to define methods to measure the adequacy, accessibility, capacity, <u>safety</u>, and <u>security</u> of K-12 school facilities which will serve as a resource for addressing policy topics. For more information, visit: http://nces.ed.gov/forum/facilities.asp.</p>	
<p>The School Facility Maintenance Task Force is developing the “Planning Guide for Maintaining School Facilities” which will provide “best practice” guidelines to help school staff and community stakeholders (e.g., school business officials, board members, superintendents, principals, maintenance, custodial staff, LEAs, vendors and regulatory agencies) effectively plan and maintain school facilities. Information on the importance of effectively managing school facilities, facilities audits, evaluating maintenance practices, safe learning environments, and managing facilities staff is included. For more information, visit: http://nces.ed.gov/forum/maintenance.asp</p>	<p>The Association of School Business Officials (ASBO®) International</p>
<p>The “Safety in Numbers: Collecting and Using Crime, Violence and Discipline Data to Make a Difference in Schools” report, produced by state and school district administrators, education policy researchers, and U.S. Dept of Education staff, provides information on how to use data to guide the development of policies to improve school safety, promote learning, and focus reform efforts; ensure the research and use of reliable and valid data; and employ best practice guidelines for writing data descriptions and codes to record and track safety and crime incidents reported by school districts and states. To download the document (publication number NCES 2002-312) in PDF, visit: http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002312. The “To Help Promote a Violence-Free School Environment,” brochure (publication number NCES 2002-375) is available at: http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2002375.</p>	<p>U.S. Dept. of Education Safe and Drug-Free Schools Program</p>

U.S. Department of Energy

Office of Weatherization and Intergovernmental Programs

Contact: Margo Appel, Energy Technology Program Specialist, U.S. Department of Energy, 1000 Independence Avenue, NW, Route EE-2K, Washington, DC 20585, Tel: 202 586-9495, Fax: 202-586-1233, Email: margo.appel@ee.doe.gov

Statutory Authorities: Energy Conservation Programs for Schools and Hospitals, USC Title 42, Sec 6371g (PL 94.163 Title III, Sec 398)

Program Title/Description: Energy Smart Schools - Provides technical assistance to help K-12 schools install clean energy technologies and reinvest their savings from energy improvements to improve the quality of the learning environment through daylighting, better temperature control, better air quality and other elements related to buildings and bus fleets; and increase student, teacher, and community awareness of energy and related issues including financial management, air quality, climate change, and new technologies. Program has four primary goals: reduce energy consumption and costs by increasing the use of in K-12 schools.

Rebuild America—Supported by its national partners (businesses and member organizations) to help schools and other building operators create local partnerships for assistance in planning and implementing cost-saving building improvements using energy efficiency and renewable energy technologies. Other DOE programs working with schools, include: Clean Cities that helps schools to purchase school buses that use alternative fuel; the President’s Million Solar Roofs Initiative that encourages more wide-spread use of solar technologies; and ENERGY STAR® that encourages schools to benchmark facilities to evaluate energy efficiency and recognize schools that incorporate energy efficient technologies to improve building performance. For more information on these programs, call DOE’s hotline at 1-800-DOE-3732 or visit: <http://www.energy.gov>.

Key Projects/Resources:	Collaborating Organizations:
<p>The “Energy Design Guidelines for High Performance Schools” guide provides climate-specific information on building <u>energy efficient</u> schools. To order this guide, visit: http://www.eren.doe.gov/energysmartschools/order.html.</p>	

<p>“National Best Practices Manual for Building High Performance Schools” is intended to help architects and engineers design and build schools that are healthy and energy and materials efficient. To order this manual, visit: http://www.eren.doe.gov/energysmartschools/order.html.</p>	
<p>The High Performance Buildings Web site is available at: http://www.eren.doe.gov/buildings/highperformance/.</p>	
<p>The High Performance Buildings Database provides information on <u>green projects</u> operating worldwide involving homes, commercial interiors, large buildings, campuses and neighborhoods that have incorporated environmental building features to improve energy performance. For more information, visit: http://www.eren.doe.gov/buildings/highperformance/projects_list.html.</p>	

U.S. Department of Health and Human Services

Centers for Disease Control and Prevention Agency for Toxic Substances and Disease Registry (ATSDR), Division of Health Studies (DHS) Epidemiology and Surveillance Branch (ESB)

<p>Contact: Zahava Berkowitz, ATSDR, 1600 Clifton Road, NE, Mail stop E-31, Atlanta, GA 30333, Tel: 404-498-0574, Fax: 404-498-0079, Email: zab3@cdc.gov</p>	<p>Statutory Authority: The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), commonly known as “Superfund”</p>
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Program Title/Description: Releases of Hazardous Substances in Schools, Data from Hazardous Substances Emergency Events Surveillance (HSEES) System, 1993-1998 - Produced by ATSDR, the report provides an analysis of information collected by 14 participating state health departments on 393 emergency events in schools resulting from releases and exposure to hazardous substances that were identified by the industrial coding scheme administered by the U.S. Dept. of Commerce (117 were associated with victims – individuals who sustained adverse health effects – and 187 with evacuations). Operator error while handling material/equipment; equipment failure, such as leaking containers and malfunctioning heating and ventilation systems; inappropriate mixing of chemicals in the laboratories, and by janitors using cleaning agents; and, deliberate releases caused most events. Most victims were exposed to noxious gases, resulting in symptoms associated with the respiratory tract. Most frequently released substances: mercury, tearing agents, such as pepper gas and other noxious gases. Less frequently released substances were hydrochloric acid, chlorine, ethylene glycol, and formaldehyde, among others.
For more information, visit: <http://www.atsdr.cdc.gov/HS/HSEES/>.

<p>Key Projects/Resources:</p>	<p>Collaborating Organizations:</p>
<p>Presentations for science teachers and pool administrators on legislation banning <u>mercury thermometers</u> in schools. For information related to mercury in schools, visit: http://www.mercury-k12.org.</p>	<p>State of MN</p>

**Centers for Disease Control and Prevention
Agency for Toxic Substances and Disease Registry (ATSDR), Division of Health Studies, Epidemiology and Surveillance Branch
CDHS Environmental Health Investigations Branch**

Contact: Perri Zeitz Ruckart, MPH, 1600 Clifton Road, MS E-31, Atlanta, GA 30333, Tel: 404-498-0573, Fax: 404-498-0079, Email: afp4@cdc.gov.
Dr. Marilyn Underwood, Chief, Site Assessment Section, CDHS, Environmental Health Investigations Branch, California Department of Health Services, 1515 Clay Street, Suite 1700, Oakland, CA 94612, Tel: 510-622-4415, Fax: 510-622-4505, Email: munderwo@dhs.ca.gov

Statutory Authority: Title IV of the Superfund Amendments and Reauthorization Act of 1986; California Health and Safety Code, Article 4, Sec 100325

Program Title/Description: **Children's Environmental Health Study** - Funded by a grant from the ATSDR to evaluate whether the prevalence of asthma and other respiratory health indices differ between children who attended school near a chromium emitting facility vs. children not exposed to chromium (a control school) and to assess the respiratory health status of children living in the target community. For more information, visit: <http://www.atsdr.cdc.gov/child/ochchildhlth.html>.

Key Projects/Resources:

Teachers sent questionnaires to parents of children in grades 4, 8, 11 and 12: over 2,700 children participated (86% response rate). Feedback was given to parents on whether the answers they provided could indicate their child has asthma, and parents were provided with asthma health education materials and referrals to patient services coordinators who would enroll families in low or no-cost health care services and help them identify appropriate health care providers.

Collaborating Organizations:

Montebello Unified School District, Asthma and Allergy Foundation of America-LA, Communities for a Better Environment-Suva La Causa, Suva Schools PTA, Suva School Site Council

**Centers for Disease Control and Prevention
Agency for Toxic Substances and Disease Registry (ATSDR)
Division of Health Assessment and Consultation (DHAC)**

Contact: Leslie Campbell, ATSDR/DHAC, 1600 Clifton Road, NE, Mailstop E-32, Atlanta, GA 30333, Tel: 404-498-0473, Fax: 404-498-0073, Email: lcampbell@cdc.gov

Statutory Authority: Superfund Amendments and Reauthorization Act of 1986 (PL 99-499)

Program Title/Description: **GIS Analysis of the Proximity of Schools to Hazardous Waste Sites on the NPL** - Uses GIS to examine the question of how many schools in the U.S. are on or in close proximity to hazardous waste sites on the NPL and compares findings to ATSDR Health Assessments and U.S. EPA documents and databases. Data sources include: U.S. Census TIGER files, U.S. EPA polygons for NPL sites, and a geocoded database of school locations from a U.S. Dept. of Education data set. For more information, visit: <http://www.atsdr.cdc.gov/HAC/dhac2.html>.

Key Projects/Resources:

GIS staff obtain updated and validated maps of site boundaries for NPL sites and use these maps to correct and validate the electronic file of site polygons provided by U.S. EPA and then return to U.S. EPA for review and confirmation.

Collaborating Organizations:

ATSDR, DHAC and U.S. EPA

Demographic Analysis of Schools and Communities, maintained by the Dept. of Education, are compared to schools' proximity to NPL sites and socioeconomic data from the Census Bureau.

ATSDR, OAA

**Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion
Division of Adolescent and School Health (DASH)**

Contact: Jenny Osorio, Centers for Disease Control and Prevention, 4770 Buford Highway, NE, MS K29, Atlanta, GA, 30341, Tel: 770-488-3165, Fax: 770-488-6191, Email: josorio@cdc.gov

Statutory Authority: Public Health Service Act, USC Title 42, Sec 301a, 311b, 311c, 317k, 241, 243, 247

Program Title/Description: **Coordinated School Health Programs (CSHPs)** - Provides technical assistance and grants that enable state departments of education and health to: coordinate, support, and evaluate local school health programs currently operating in 20 states (serving 21 million + students); establish a training and development system for local health and education professionals; improve policies and programs; collaborate with organizations committed to improving the health of youth; and develop strategies for reducing risk behaviors among youth. CSHPs incorporate 8 components: health education, health services, health promotion for staff, counseling and psychological services, a healthy school environment, parent and community involvement; nutrition services; and physical education. For more information, visit: <http://www.cdc.gov/nccdphp/dash>.

Key Projects/Resources:

The Comprehensive Health Education Network (CHEN) Listserv helps funded constituents and collaborating organizations to communicate.

Collaborating organizations:

Organizations funded by CDC/DASH

**Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion
Division of Adolescent and School Health (DASH)**

Contact: Dr. Nancy Brener, Centers for Disease Control and Prevention, 4770 Buford Highway, NE, MS K33, Atlanta, GA 30341, Tel: 770-488-6184, Fax: 770-488-6156, Email: nad1@cdc.gov

Statutory Authority: Public Health Service Act, USC Title 42, Sec 301

Program Title/Description: **School Health Policies and Programs Study (SHPPS)** - A national survey conducted in 1994 and 2000 to assess school health policies and programs. Topics covered include: health education, physical education, health services, mental health and social services, school policy and environment, food service, faculty and staff health promotion, and family and community involvement, that exist at the state, district, school, and classroom levels in elementary, middle/junior, and senior high schools. Results from SHPPS 2000 are published in the *Journal of School Health*, Volume 71, Number 7, September 2001. For more information, visit: <http://www.cdc.gov/nccdphp/dash/shpps/>.

**Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion
Division of Adolescent and School Health (DASH)**

Contact: David DeLozier, Centers for Disease Control and Prevention, 4770 Buford Highway, NE, MS K12, Atlanta, GA 30341, Tel: 770-488-6177, Fax: 770-488-5771, Email: ddeLozier@cdc.gov

Statutory Authority: National Food Safety Initiative, USC Title 42, Sec 1769b (PL 89.642); Child Nutrition Act of 1966-training and technical assistance for food safety programs in schools

Program Title/Description: *Food-Safe Schools Program* - A partnership between CDC-DASH and the National Coalition for Food Safe Schools (NCFSS), to develop an action guide and provide resources to help school nurses, food-service, administrators, teachers, students, parents, health departments, and cooperative extension agencies, educate students, staff, and families on food borne illness and food safety practices in schools. For more information, visit: <http://www.cdc.gov/nccdphp/dash/index.htm>.

Key Projects/Resources:

CDC-DASH funds 5 states and 4 national non-government organizations (NGOs) through cooperative agreements to pilot the *Food-Safe Schools* Program. The state of RI is piloting the program in 6 schools. Evaluation results will be used to update and improve the Guide.

Collaborating Organizations:

Grantees include: CA, RI, SD, WI, and WV; the American Nurses Foundation, Child Nutrition Foundation, Nat'l Association of County and City Health Officials, and the Nat'l Environmental Health Association

Visit the School food-safety Web site at: <http://www.foodsafeschools.org>.

**Centers for Disease Control and Prevention
The National Center for Environmental Health (NCEH), Division of Environmental Hazards and Health Effects
Air Pollution and Respiratory Health Branch (APRH)**

Contact: Daniel J. Burrows, M.S., CDC NCEH, 1600 Clifton Road, Mail Stop E-17, Atlanta, GA 30333, Tel: 404-498-1004; Julie Madden, CDC NCEH, 1600 Clifton Rd. NE, MS E-17, Atlanta, GA 30333, Tel: 404-498-1013, Fax: 404-498-1088, Email: jmadden@cdc.gov

Statutory Authority: USC Title 42, Chp 6A, Sec 247b-10; USC Title 42, Chp 6A, Sec 300; USC Title 42, Chp 85, Sec 7403

Program Title/Description: *Air Pollution and Respiratory Health Branch (APRH)* - Coordinates CDC efforts to address issues relating to respiratory illness associated with air pollution and works with state and local public health agencies and foreign ministries of health to provide information and assistance for developing specialized epidemiologic studies, with a focus on reducing human exposure to air pollutants and reducing the number of people hospitalized for asthma. Branch staff also develop training materials, conduct presentations on respiratory health issues to professional and community groups, and promote the dissemination of information about air quality and the health effects of air pollution. For more information, visit: <http://www.cdc.gov/asthma>.

Key Projects/Resources:	Collaborating Organizations:
<p>29 states plus the District of Columbia are funded by the National Asthma Control Program implementation grants provided by CDC to develop surveillance capability for asthma and state asthma plans, establish coalitions/partnerships to support the development and implementation of the plan, and conduct <u>asthma intervention</u> activities, including school <u>environmental health</u> interventions as a coordinated effort to reduce asthma exacerbations by improving <u>indoor air quality</u>. For more information, visit: www.cdc.gov/asthma.</p>	<p>State Health Depts.</p>
<p>Replication and Implementation of Scientifically-Proven Asthma Interventions – PA 01105 – provides funding for seven organizations to implement the American Lung Association’s <i>Open Airways for Schools</i> (OAS) Program in 123 schools. This health education program teaches 8-11 year old children with asthma how to detect the warning signs of <u>asthma</u>, including the environmental factors that can trigger an attack. The program has been shown to significantly increase asthma management skills, reduce symptoms of asthma and improve <u>academic performance</u>. For more information on the OAS program, visit: www.lungusa.org.</p>	<p>American Lung Association</p>
<p>Centers for Disease Control and Prevention National Institute for Occupational Safety and Health (NIOSH) Division of Respiratory Disease Studies</p>	
<p>Contact: Edward Lee Petsonk, Senior Medical Officer, Division of Respiratory Disease Studies, NIOSH Field Studies Branch, 1095 Willowdale Road, MS PB 163, Morgantown, WV 26505, Tel: 304-285-5842, Fax: 304-285-6111, Email: elp2@cdc.gov</p>	<p>Statutory Authority: Occupational Safety and Health Act 1970, USC Title 29, Sec 651</p>
<p>Program Title/Description: Preventing Work-Related Asthma in Schools and Offices - Aims to identify risk factors for work-related <u>asthma</u> and conduct research and cross-sectional studies to evaluate the relation between asthma and exposure to <u>environmental triggers</u>, such as moisture and schools and non-industrial workplace bioaerosols, in schools and offices. Research results will help guide intervention strategies for improving IAQ and respiratory health. For more information, visit: http://www.cdc.gov/niosh/psacops.html.</p>	
Key Projects/Resources:	Collaborating Organizations:
<p>National Occupational Research Agency (NORA) to assess the need and opportunities for occupationally-related research for the prevention of asthma.</p>	<p>Nat’l Asthma Education and Prevention Program (NHLBI), Nat’l Center for Environmental Health, Agency for Toxic Substances and Disease Registry, Dept. of Veterans Affairs, American Thoracic Society, Asthma and Allergy Network /Mothers of Asthmatics, Nat’l Toxicology Program, Harvard School of Public Health, Kaiser Permanente</p>

**Health Resources and Services Administration (HRSA)
Bureau of Primary Health Care**

Contact: Mary L. Tom, Project Manager, Center for School-Based Health, Bureau of Primary Health Care, 4350 East West Highway, 9th Floor, Bethesda, Maryland 20814, Tel: 301-594-0820 or 301-594-4470, Fax: 301-594-2470, Email: mtom@hrsa.gov

Statutory Authority: Public Health Service Act, USC Title 42, Sec 330; USC Title 42, Chp 6A, Sec 254– created health centers

Program Title/Description: **Center for School-Based Health** - Provides policy leadership and technical assistance for program development, training, models, and standards to expand and strengthen 512 school-based health center programs operated and funded by the Bureau of Primary Health Care. For more information, visit: <http://www.bphc.hrsa.gov/center/default.HTM>.

Key Projects/Resources:

The Health and Human Services Academies Program serves as liaison for other HRSA programs, CDC, CMS, other federal agencies, state and local governments, consumer groups and national organizations concerned with health care for at-risk children. The program coordinates the Health Status and Performance Improvement Collaborative and provides leadership and coordination for the Clinical Network. For more information, visit: <http://www.bphc.hrsa.dhhs.gov/Center> and <http://www.bphc.hrsa.dhhs.gov/HSHC/>.

Collaborating Organizations:

**Health Resources and Services Administration (HRSA)
Bureau of Primary Health Care
Healthy Schools, Healthy Communities (HSHC)**

Contact: LaVerne M. Green, Director, HSHC, 4350 East West Highway, 9-10C2 EWT, Bethesda, MD 20814, Tel: 301-594-4444, Email: lgreen@hrsa.gov

Statutory Authority: See above

Program Title/Description: **The Healthy Schools, Healthy Communities Program** - Encourages the development of new, full-time comprehensive school-based primary care programs for at-risk youth and children; identifies issues and develops policy options and guidelines to establish priorities for the Division and Bureau in managing community and school based health centers. For more information, visit: <http://www.bphc.hrsa.gov/HSHC/Default.htm>.

Key Projects/Resources:

HSHC funds 76 organizations to establish new school-based health centers, including: community health centers, local health departments, hospitals, private nonprofit health providers, and university medical centers.

Collaborating Organizations:

Center for Medicare and Medicaid Services, Dept. of Education, CDC– Maternal and Child Health Bureau, Substance Abuse and Mental Health Services Administration, Nat’l Assembly on School-Based Health Care, Center for Health and Health Care in Schools, Nat’l Association of Community Health Centers, Inc.

**Health Resources and Services Administration (HRSA)
Maternal and Child Health Bureau
Office of Adolescent Health**

Contact: Trina Menden Anglin, Maternal and Child Health Bureau, Health Resources and Services Administration, Parklawn Building, Room 18A-39, 5600 Fishers Lane, Rockville, MD 20857, Tel: 301-443-4291, Fax: 301-443-1296, Email: tanglin@HRSA.GOV

Statutory Authority: Social Security Act, Title V, USC Title 42, Sec 701

Program Title/Description: **National Coordinating Committee on School Health (NCCSH)** - Convenes about 75 non-governmental organizations that promote programs and policies at national, state and local levels to: provide national leadership for the promotion of quality coordinated school health programs; convey a clear vision of the role of school health programs in improving the health, safety, mental health, nutrition and educational achievement of children; and facilitate communication and collaboration among national organizations invested in children. For more information, visit: <http://www.healthystudents.org>.

Key Projects/Resources:

Coordinates the annual meeting, Web site, and development of informative materials relevant to school health programs and policies.

Collaborating Organizations:

Depts. of Education and Agriculture

**Health Resources and Services Administration (HRSA)
Maternal and Child Health Bureau, Division of Child, Adolescent and Family Health
Injury and Emergency Medical Services Branch**

Contact: Stephanie Bryn, Maternal and Child Health Bureau, HRSA, Parklawn Building, Room 18A-38, 5600 Fishers Lane, Rockville, MD 20857, Tel: 301-443-6091, Fax: 301-443-1296, Email: sbryn@HRSA.GOV

Statutory Authority: Social Security Act, Title V, USC Title 42, Sec 701

Program Title/Description: **Health, Mental Health and Safety in Schools (HMSS) Guidelines** - Produced by a Central Steering Committee comprised of more than 20 health, mental health, education and safety membership associations, and professionals, the report is a collection of previously published and existing guidelines relating to school health and safety that will help to inform and guide school administrators and other school staff when making decisions on programs and policies that influence the health and safety of students and school personnel while on or off of school grounds or involved in school-sponsored activities.

Key Projects/Resources:

Topics covered include healthy school environment (physical plant safety, program planning, physical environment, safety, and communications with parents and families), health education, physical education, nutrition, health services, mental health, health promotion for staff, and family/community involvement. For more information, visit: <http://ftp.hrsa.gov/mchb/factsheets/dcafh.pdf>.

Collaborating Organizations:

American Academy of Pediatrics and Nat'l Association of School Nurses; 20 NGOs and associations

**National Institutes of Health
The National Heart Lung and Blood Institute (NHLBI)**

Contact: Diana K. Schmidt, Coordinator, National Asthma Education and Prevention Program (NAEPP), 31 Center Drive, MSC 2480, Bethesda, MD 20892-2480, Tel: 301-496-1051, Fax: 302-402-1051, Email: ds336v@nih.gov

Statutory Authority: Coordination of Federal Asthma Activities, USC Title 42, Chp 6A, Sec 285b-7b

Program Title/Description: National Asthma Education and Prevention Program (NAEPP) - Developed materials to promote appropriate management of asthma in school settings, including control of environmental factors that make asthma worse. NAEPP has a guide on managing asthma in schools for school personnel, a slide show, and sample policy statements on making school environments “asthma-friendly” developed in conjunction with the American Association of School Board Administrators and the American Association of School Health. Information is distributed through partner networks, targeted mailings, and an electronic notification system designed to reach school-asthma stakeholders. For more information, visit: http://www.nhlbi.nih.gov/about/naepp/naep_pd.htm.

Key Projects/Resources:

NAEPP is addressing asthma morbidity in high-risk communities through contract awards to 7 local asthma coalitions– NAEPP provides technical assistance, an information exchange network, and advice on organizing and sustaining community asthma interventions. For more information, visit the NHLBI Healthy People 2010 Gateway Web site at: <http://hin.nhlbi.nih.gov> (click on ‘Respiratory’, then on ‘Asthma Coalition Network’).

Collaborating Organizations:

AR Asthma Coalition, Asthma Alliance of Indianapolis, Central CA Asthma Consortium, Chicago Asthma Consortium, Columbia Univ. Asthma Coalition, Morehouse Safety Net Asthma Coalition, and Tacoma-Pierce County Clean Air for Kids

**National Institutes of Health
The National Heart Lung and Blood Institute (NHLBI)**

Contact: Virginia Taggart, Division of Lung Diseases, 6701 Rockledge Drive, MSC 7952, Bethesda, MD 20892-7952, Tel: 301-435-0202, Fax: 301-480-3557, Email: taggartv@nhlbi.nih.gov

Statutory Authority: Children’s Asthma Treatment Grant Program, USC Title 42, Chp 6A, Sec 280; National Research and Demonstration Centers, USC Title 42, Chp 6A, Sec 285b

Program Title/Description: Demonstration and Education Research Projects - NHLBI-supported research programs on program models for improving asthma management in the school setting. One project included assessments of allergen levels in elementary schools in 3 cities representing different regions of the country; this information will help identify appropriate targets for future intervention. University grantees include: Univ. of MI, Univ. of AL, Univ. of TX Health Science Center.

**National Institutes of Health
The National Institute of Environmental Health Sciences (NIEHS)
Division of Extramural Research and Training (DERT)**

Contact: Gwen Collman, NIEHS, DERT, 111 Alexander Drive, Mail Drop EC-21, Research Triangle Park, NC 27709, Tel: 919-541-4980, Fax: 919-316-4606, Email: collman@niehs.nih.gov

Statutory Authority: USC Title 42, Chp 6A, Sec 2851; NIEHS provisioned under subpart 12

Program Title/Description: Michigan Center for the Environment and Children's Health--Grant Number:5P01ES009589 - Funded by the NIEHS Centers for Children's Environmental Health and Disease Prevention Program and based at the Univ. of MI, the Center works with local community-based and health care organizations to conduct research on common behaviors that reduce exposure to environmental hazards, daily and seasonal fluctuations in indoor and outdoor ambient air quality and the effects on pulmonary function, and the effects of allergen-induced asthma to identify effective clinical mechanisms for managing pediatric asthma. Results will guide the development of risk assessments and guidelines for a comprehensive neighborhood and household intervention and prevention program for pediatric asthma sufferers' families in Detroit's minority communities. For more information, visit: <http://www.niehs.nih.gov/translat/children/ctr-mtrx.htm>.

**National Institutes of Health (NIH)
National Institute of Environmental Health Sciences (NIEHS), Division of Extramural Research and Training (DERT)
Children's Environmental Health Initiative**

Contact: Dr. Allen Dearry, Chief, DERT, Chemical Exposure and Molecular Biology Branch, PO Box 12233, East Campus 3459, Research Triangle Park, NC 27709, Tel: 919-541-4943, Fax: 919-316-4606, Email: dearry@niehs.nih.gov

Statutory Authority: See above

Program Title/Description: Children's Environmental Health Initiative - A joint effort of the NIEHS and U.S. EPA and operates under the NIEHS Centers for Children's Environmental Health and Disease Prevention Program Statutory Authority to coordinate public outreach, including program and community involvement and information exchange between researchers and local citizens on children's health issues by working with non-profit institutions. For more information, visit: <http://www.niehs.nih.gov/external/resinits/ri-28.htm>.

Key Projects/Resources:

8 program centers address issues including: children's respiratory diseases; impact of pesticides on growth and development; children's susceptibilities to pesticides; causes of airway disease in rural children; childhood asthma; environmental pollutants, allergens and asthma in inner city children; potential risks to inner-city children from pesticides, lead and PCBs; and environmental risks to African-American and Hispanic infants and children.

Collaborating Organizations:

U.S. EPA, Univ. of Southern CA, Univ. of CA-Berkeley, Univ. of WA, Univ. of IA, Univ. of MI, Johns Hopkins Univ., Mount Sinai Medical Center, Columbia Univ.

**National Institutes of Health
National Institute of Nursing Research (NINR)
Division of Extramural Activities**

Contact: Dr. Claudette Varricchio, Chief, Office of Extramural Programs, Building 45, Room 3AN-12, 45 Center Drive, Bethesda, MD 20892-6300, Tel: 301-402-6423, Fax: 301-486-8260, Email: varriccc@mail.nih.gov

Statutory Authority: Public Health Service Act, USC Title 42, Sec 301

Program Title/Description: Children’s Asthma Studies in Schools - Entails studies of children with asthma attending elementary school in inner-cities and in rural communities to evaluate common asthma symptoms, exposure to environmental triggers, such as environmental tobacco smoke, and environmental, socioeconomic, psychological and familial factors that predispose children in rural communities to asthma. Research also involves the participation of school nurses who advise parents and children with asthma on “environmental allergens in the home and school environments.” NINR provides funding for university-level research projects. For more information, visit: <http://www.nih.gov/ninr/research/diversity/mission.html>.

Key Projects/Resources:

Extramural research for inner-city and rural issues in childhood asthma.

Collaborating Organizations:

HRSA, Agency for Health Care Research and Quality, CDC, Nat’l Advisory Council for Nursing Research

**Indian Health Service
Division of Environmental Health Services
Institutional Environmental Health–Schools**

Contact: Merritt Lake, Principal Institutional Environmental Health Officer, Twinbrook Metro Plaza Building, 12300 Twinbrook Parkway, Suite 600A, Rockville, MD 20852, Tel: 301-443-1054, Email: mlake@hqe.ihs.gov

Statutory Authority: Tribal Programs, (PL 93.638, under Title III), Health Environmental Protection provision

Program Title/Description: Institutional Environmental Health-Schools - Aims to enhance the health and quality of life for American Indians and Alaskan natives by implementing sound public health policies and practices to eliminate or reduce occurrences of environmentally related disease and injury. For more information, visit: <http://www2.ihs.gov/IEH/school.asp>.

U.S. Department of Labor

Occupational Safety and Health Administration (OSHA)

Contact: Elise Handelman, Directorate of Technical Support, Department of Labor, OSHA, 200 Constitution Avenue, NW, Room N-4618, Washington, DC 20210, Tel: 202-693-2120, Fax: 202-693-2502, Email: elise.handelman@osha.gov

Statutory Authority: The Occupational Safety and Health Act of 1970 (PL 91-596) and amended in 1990 (PL 101-552)

Program Title/Description: OSHA - Coordinates activities that focus on ensuring the health and safety of teachers, environmental service workers, food service workers, social workers, and other employees working in school facilities and has several resources available to help schools identify and reduce or eliminate exposure to occupational environmental hazards for the health benefit of students, volunteers and others not directly regulated by the Agency. For more information, visit: <http://www.osha.gov>.

Key Projects/Resources:	Collaborating organizations:
<p>Youthrules! The Dept. of Labor has a Web site designed for young workers, educators, parents and employers that describes the rights and responsibilities of young workers, including what jobs and hours they are legally allowed to work. Information is available in English and Spanish. For more information, visit: http://www.youthrules.dol.gov.</p>	
<p>OSHA has developed several user-friendly links to information on technical topics relating to hazards in schools, including: lead http://www.osha.gov/SLTC/lead/index.html; asbestos http://www.osha.gov/SLTC/asbestos/index.html; fire safety http://www.osha.gov/SLTC/firesafety/index.html; indoor air quality http://www.osha.gov/SLTC/indoorairquality/index.html; and first aid http://www.osha.gov/SLTC/medicalfirstaid/index.html. Many of these pages include links to other agencies and resources.</p>	<p>Each Technical Links page has an assigned editor and editorial board composed of experts in the particular subject field</p>
<p>OSHA publications relating to <u>hazards</u> found in schools are available for order. For a complete list of resources, visit: http://www.osha.gov/OshDoc/Additional.html.</p>	<p>Many publications are developed in collaboration with CDC/NIOSH</p>
<p>OSHA provides a wide variety of training materials developed for specific hazards or industries, many of which are available at http://www.osha.gov/SLTC/multimedia.html. OSHA also conducts classes on specific hazards through the OSHA Training Institute, available to the public for a nominal fee.</p>	

U.S. Consumer Product Safety Commission (CPSC)

Office of Hazard Identification and Reduction

Contact: Jacqueline Elder, Acting Assistant Executive Director, Office of Hazard Identification and Reduction, U.S. Consumer Product Safety Commission, 4330 East West Highway, Bethesda, MD 20814, Tel: 301-504-0990, Fax: 301-504-0124 or 301-504-0025

Statutory Authorities: Consumer Product Safety Act (CPSA), USC Title 15, Sec 2051-2084; Federal Hazardous Substances Act (FHSA), USC Title 15, Sec 1261-1277; Poison Prevention Packaging Act (PPPA), USC Title 15, Sec 1471-1476

Program Title/Description: **National Health and Safety Performance Standards Guidelines for Out-of-Home Child Care Programs** - Includes research on product hazards to children and families that have been used to address school environmental issues, and have contributed to CDC's Guidelines for School Health Programs to Prevent Unintentional Injuries and Violence, and enabled staff to participate in the composition of performance standards coordinated by the National Resource Center. In FY 2003, CPSC staff will evaluate common school arts and crafts materials and laboratory chemicals and develop or update guidance on the relative safety of these substances, many of which may not be safe for use by school children because of acute and chronic hazards such as respiratory irritation, dizziness, headaches, or eye and skin burns. For more information, visit: <http://www.cpsc.gov>.

Office of Information and Public Affairs

Contact: Nychelle Fleming, Children's Product Hazards, 4330 East West Highway, Attention: OIPA, Bethesda, MD 20814
Tel: 301-504-0580 ext. 1192, Fax: 301-504-0399, Email: nfleming@cpsc.gov
Yolanda Fultz-Morris, Chemicals, Carbon Monoxide, and Recreational Hazards, Tel: 301-504-0580 ext. 1219, Fax: 301-504-0399,
Email: ymorris@cpsc.gov

Statutory Authorities: See above

Project Title/Description: **Office of Information and Public Affairs** - Provides publications to consumers, media and advocacy groups. The mission is to protect the public from the unreasonable risk of injury or death from 15,000 types of consumer products in and around the home. For more information, visit: <http://www.cpsc.gov>.

Key Projects/Resources:	Collaborating Organizations:
“Protect Your Family from <u>Lead</u> in Your Home,” “Back to <u>School Safety</u> Tips,” “Area <u>School Safety</u> ” Poster and Slogan Contest.	

U.S. Department of the Interior

Bureau of Indian Affairs (BIA)

Contact: Neal A. McCaleb, Assistant Secretary, BIA Office of Assistant Secretary, BIA, 1849 C Street, NW, Washington, DC 20240, Tel: 202-208-7163, Email: neal_mccaleb@bia.gov

Statutory Authority: USC Title 20, Chp 70, Sec's 6302e, 6302f, 6317e, 7707, 7708

Program Title/Description: **School Construction Projects** - A FY 2002 budget request was made and approved for \$161.6 million which will address critical health and safety concerns at existing education facilities and fund maintenance and repair projects, including school construction and replacement at BIA-owned school buildings. For more information, visit: <http://www.doi.gov/news/schconst.htm>.

U.S. Environmental Protection Agency

Office of Air and Radiation Indoor Environments Division

Contact: Jennifer Keller, Indoor Environments Division (6609J), U.S. EPA, Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 202 564-9338, Fax: 202 565-2039, Email: keller.jennifer@epa.gov

Statutory Authorities: Title IV of the Superfund Amendments and Reauthorization Act of 1986 (PL 99-499); Clean Air Act, USC Title 42, Sec's 103, 7403

Program Title/Description: **Indoor Environments Program** - Coordinates voluntary activities based on the *IAQ Tools for Schools (IAQ Tfs)* Kit, which provides a collection of resources, including checklists, a video tape, a problem solving wheel, and IAQ Coordinators Guide, designed to assist school staff in implementing an IAQ management plan to identify and resolve existing indoor air quality and building system problems and prevent future problems relating to such issues as mold, pests, ventilation, dust mites, cockroaches, and asthma. For more information, visit: <http://www.epa.gov/iaq/schools>.

Key Projects/Resources:	Collaborating Organizations:
IED staff work with a wide range of public and private partners, including health and education member organizations, to coordinate awareness activities and provide technical assistance, including training workshops on how to finance building repairs and form an IAQ team, to schools and school districts implementing the Kit. By 2005, the program anticipates that 15 % of the nation's schools will adopt good IAQ practices consistent with U.S. EPA guidance. Current efforts target the nation's 100 largest school districts, according to student enrollment, to implement the Kit and a general IAQ management plan.	American Association of School Administrators (AASA); American Lung Association (ALA); Council of Educational Facility Planners (CEFPI); Nat'l Association of School Nurses (NASN); Nat'l Education Association Health Information Network (NEA HIN); Nat'l Environmental Health Association (NEHA) Parents and Teachers Association (PTA)

<p>The Interagency Agreement with Bureau of Primary Health Care (BPHC) Center for School Based Health (CSBH) Regional Asthma Institutes promotes the implementation of the <i>IAQ TFS</i> program, as well as other <u>environmental management</u> curricula such as ALA's <i>Open Airways for Schools</i> and the NASN's, "Managing Asthma Triggers Keeping Students Healthy" among schools, to provide direct training to school based health center staff, and indirect education to children and parents in the home, on how to coordinate comprehensive <u>asthma management care</u> through environmental interventions.</p>	<p>Bureau of Primary Health Care, Health Resources and Services Administration, DHHS, ALA, NASN</p>
<p>The "Indoor Air Quality Practices in Schools" (Survey, OMB Control # 2060-0436) surveys 1,000 randomly selected schools to determine the extent that schools are implementing <u>good IAQ practices</u> during routine facility maintenance procedures.</p>	
<p>The "Managing Asthma in the School Environment" publication describes common <u>environmental asthma triggers</u> found in school environments and lists the top 10 steps that schools can take to help children better manage their asthma. This resource is available for download in HTML at: http://www.epa.gov/iaq/schools/asthma/index.html.</p>	<p><i>IAQ TFS</i> Partners</p>
<p>The "Mold Remediation in Schools and Commercial Buildings" publication provides technical guidance to help facility managers of schools and commercial buildings prevent, identify, evaluate and remediate mold and moisture problems. This resource is available for download in HTML at: http://www.epa.gov/iaq/molds/index.html.</p>	<p><i>IAQ TFS</i> Partners</p>
<p>The 3rd Annual <i>IAQ Tools for Schools</i> National Symposium took place in Washington, DC, August 8-10, 2002, and provided a forum for national experts and involved school staff (e.g., school business officials, financial officers, principals, superintendents, board members, <u>school nurses</u> and facility planners) and members of U.S. EPA partner associations to discuss hot topics relating to implementing the <i>IAQ TFS</i> program, including <u>new school construction</u>, <u>asthma</u>, <u>mold remediation</u>, Integrated <u>Pest Management</u> (IPM), and strategies for <u>financing</u> IAQ improvements. For a summary of events, visit: www.epa.gov/schools/symposium.html.</p>	<p><i>IAQ TFS</i> Partners</p>
<p>The <i>IAQ Tools for Schools</i> Excellence Awards annually recognize schools and school districts with outstanding <u>indoor air quality</u> programs for their environmental leadership and increases public awareness and support for IAQ improvements. For more information about the awards program, visit: http://www.epa.gov/iaq/schools/tfsawards.html.</p>	<p><i>IAQ TFS</i> Partners</p>
<p>The Designing Schools for Superior Indoor Air Quality (Web based guidance) Web site offers guidance on all facets of how to <u>design</u> and <u>construct schools</u> for reducing the potential for <u>indoor air quality problems</u>.</p>	
<p>The U.S. EPA-wide 1 Stop Shopping Web Site for Schools serves as a portal to all U.S. EPA and other federal agency school-related programs and offers a collection of school-related internet resources. For more information, visit: http://cfpub.epa.gov/schools/index.cfm.</p>	

**Office of Air and Radiation
ENERGY STAR Schools**

Contact: Melissa Payne, MC 6202J, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 202-564-9183, Fax: 202-565-2083, Email: payne.melissa@epa.gov.

Statutory Authority: Pollution Prevention Act Nov 1990, USC Title 42, Sec 13101 (PL 101.508 Sec 6501)

Program Title/Description: **ENERGY STAR Schools** - A subset of the U.S. EPA's Energy Star Program, partners with K-12 school districts, colleges, and universities nationwide to provide technical support and guidance on financing options, targeted to school financial officers and facilities managers, and recognition for efforts to integrate energy efficient building technologies during new construction or renovate existing facilities to increase energy efficiency in conjunction with healthy indoor air quality. A web-based energy performance rating tool was launched for schools in April 2000. The program has rated almost 10% of all school buildings for energy use and schools that score 75 or higher, on a scale of 1-100, are eligible to apply for an ENERGY STAR label. For more information, visit: <http://www.energystar.gov>.

Key Projects/Resources:

"Indoor Environmental Quality and Energy Efficiency" report provides information on the relation between good IAQ and energy efficiency.

Collaborating Organizations:

Dept. of Energy, U.S. EPA's Indoor Environments Program

**Office of Air and Radiation
Global Programs Division**

Contact: Linda Rutsch, SunWise School Program, 6205J, Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington, DC 20460 Tel: 202-564-2261, Fax: 202-565-2095 or -2096, Email: rutsch.linda@epa.gov

Statutory Authority: Clean Air Act, USC Title 42, Sec's 103(a)(1) and 103(b)(6)

Program Title/Description: **SunWise School Program** - Provides information and materials to help school teachers coordinate environmental and health education activities to teach children in grades K-8 and their care givers how to protect themselves from overexposure to ultraviolet (UV) radiation. Participating schools sponsor classroom, school, and community activities that raise children's awareness of stratospheric ozone depletion, UV radiation, and simple sun safety practices and use student surveys and teacher evaluations to assess increases in knowledge, and more responsible attitudes and behavior towards sun safety and reducing exposure to UV radiation. For more information, visit: <http://www.epa.gov/sunwise>.

Key Projects/Resources:

The SunWise School Program Tool Kit is designed for children in grades K-8 and includes cross-curricular, standards-based activities on stratospheric ozone, ultraviolet radiation, and sun safety; a UV sensitive frisbee for hands-on experiments and fun; policy guidance, SunWise Story and Activity books for K-3, and more. The Kit is free to schools that register. For more information, visit: <http://www.epa.gov/sunwise>.

Collaborating Organizations:

Nat'l. Council on Skin Cancer Prevention, American Cancer Society, Skin Cancer Foundation, American Academy of Dermatology

The UV Index is an interactive database, where SunWise students report actual UV measurements taken daily with hand-held UV meters and compare them with UV Index forecast data unique for their area, searchable by zip code.

See above

**Office of Research and Development
National Center for Environmental Research**

Contact: Dr. Chris Saint, Assistant Director, National Center for Environmental Research, U.S. EPA (8723R), Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington DC 20460, Tel: 202-564-6909, Fax: 202-565-2448, Email: saint.chris@epa.gov

Statutory Authority: FIFRA, USC Title 7, Sec 20; TSCA Oct 1976, USC Title 15, Sec 2601 (PL 94.469)

Program Title/Description: **School-Based Study of Complex Environmental Exposures and Related Health Effects in Children - Part A**, Measures temporal variability three times over a twelve month period and documents exposure patterns in the outdoor air, air in the school building and air in the child's home, to evaluate the connection between exposure to environmental hazards and resulting health effects, including respiratory illness, among school children in grades K - 5 from two low-income, racially diverse neighborhoods in Minneapolis (one group that attends a new school designed to enhance indoor air quality and the other attending an older school with more traditional architecture, mechanical systems, and furnishings). For more information, visit <http://es.epa.gov/ncer/index.html>.

Key Projects/Resources:

Collaborating Organizations:

"A school-based strategy to assess children's environmental exposures and related health effects in economically disadvantaged urban neighborhoods." Correspondence: Dr. Ken Sexton *Journal of Exposure Analysis and Environmental Epidemiology*, November 2000, Vol. 10, No. S6, pp.682-694.

Univ. of MN

"Measurement of multi-pollutant and multi-pathway exposures in a probability-based sample of children: practical strategies for effective field studies." Correspondence: Dr. John L. Adgate. *Journal of Exposure Analysis and Environmental Epidemiology*, November 2000, Vol. 10, No. S6, pp.650-666.

Univ. of MN

**Office of Prevention, Pesticides and Toxic Substances
Office of Pollution Prevention and Toxics**

Contact: John D. Wilkins, National Program Chemicals Division, U.S. EPA (7404T), 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 202-566-0477, Fax: 202-566-0471, Email: wilkins.john@epa.gov

Statutory Authority: TSCA Oct 1976, USC Title 15, Sec 2601 (PL 94.469)

Program Title/Description: **Mercury in Schools Grant Project** - Coordinates outreach, education, and training activities to increase awareness among school staff and students of health effects from exposure to mercury in school science labs and assist schools in removing elemental mercury from school laboratories and replacing mercury containing devices with non-mercury containing devices. The project is currently being expanded to help secondary schools in urban and rural districts address proper laboratory chemicals management in an effort to reduce the number of environmental hazards caused by high risk chemicals in the lab. For more information, visit: <http://www.mercuryinschools.uwex.edu>.

Key Projects/Resources:

Collaborating Organizations:

Project staff have designed teaching exercises for the classroom using non-elemental containing devices; coordinated training workshops for school administrators, science teachers and pollution prevention professionals; and developed a Web site clearinghouse offering a collection of teaching materials for use in the classroom, training tools, case studies, mercury-related fish advisories and mercury-related legislative information.

Univ. of WI Extension Service

**Office of Prevention, Pesticides and Toxic Substances
Office of Pollution Prevention and Toxics**

Contact: Brion Cook, Acting Director, National Program Chemicals Division, U.S. EPA West Building, 1301 Constitution Avenue, NW Washington, DC 20004, Tel: 202-566-0500, Fax: 202-566-0473

Statutory Authority: AHERA, USC Title 15, Chp 53, Sec 2641; Asbestos School Hazard Abatement Act of 1984, USC Title 20, Chp 52, Sec 4011; TSCA, USC Title 15, Sec 2641; Asbestos-Containing Materials in Schools, 40 CFR Part 763

Program Title/Description: **Asbestos Hazards Abatement Assistance Program** - Provides guidance, accredited courses and financial assistance to LEAs that help schools to carry out projects to restore healthy building conditions and reduce threats to children and staff from exposure to asbestos, including removing asbestos containing materials from schools, replacing asbestos containing materials such as floor and ceiling tiles where necessary and conducting inspection and periodic reinspection of building conditions following remedial actions. For more information, visit: <http://www.epa.gov/asbestos/index.html>.

Key Projects/Resources:

Collaborating Organizations:

The National Directory of AHERA Accredited Courses serves as a reference guide for federal and state agencies who provide training courses for asbestos control professionals and offers a list of approved courses and training providers. For more information, visit: <http://www.epa.gov/asbestos/ndaac.html>.

A collection of information materials on resources related to the hazards of asbestos exposure in schools and other public buildings are available for order from the TSCA Hotline at 202-554-1404 and the Asbestos Ombudsman at 1-800-368-5888.

U.S. EPA Region 6 provides a general list of asbestos-containing materials that are commonly found in school facilities. To view the list, visit: <http://www.epa.gov/Region06/6pd/asbestos/asbmatl.htm>.

**Office of Prevention, Pesticides and Toxic Substances
Office of Pesticide Programs, Biopesticides and Pollution Prevention Division (7511C)
Pollution Prevention Staff**

Contact: Sherry Glick, Pollution Prevention Staff, Office of Pesticide Programs, U.S. EPA, Ariel Rios Building, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 703-308-7035, Fax: 703-308-7026, Email: glick.sherry@epa.gov

Statutory Authority: FIFRA, USC Title 7, Sec 20; Food Quality Protection Act (FQPA) Aug 1996, USC Title 7, Sec 136 (PL 104.170)

Program Title/Description: **School Integrated Pest Management Program** - Aims to develop and implement integrated pest management (IPM) programs for schools nationwide that participate voluntarily to reduce risks to children from the application of pesticides to school structures and on school grounds. For more information, visit: <http://www.epa.gov/pesticides/ipm>.

Key Projects/Resources:

Collaborating Organizations:

The Regional Pesticide Environmental Stewardship Grants are awarded annually through each of U.S. EPA's 10 regional offices for projects involving implementation of the school IPM program. For more information, visit: <http://www.pesp.org>.

Pesticide Environmental Stewardship Program (PESP)

The National IPM Foundation for Education offers competitive grants through U.S. EPA's cooperative agreement to PESP members.	
The IPM in Schools Web site provides a variety of resources. For more information, visit: http://schoolipm.ifas.ufl.edu .	Univ. of FL
U.S. EPA funded Technical Resource Centers for IPM in schools provides regional assistance and technical resources on IPM in schools. Purdue Univ. resource center serves IL, IN, MI, MN, OH, and WI. For more information, call 1-877-668-8476 or visit: http://www.entm.purdue.edu/entomology/outreach/schoolipm/ . TX A&M Univ. serves TX, NM, and OK. For more information, call Tel: 1-877-747-6872 or visit: http://schoolipm.tamu.edu .	Purdue Univ., TX A & M Univ.
"Pest Control in the School Environment: Adopting IPM" (U.S. EPA 0735-F-93-012); "Protecting Children in Schools from Pests and Pesticides" (U.S. EPA-735-F-01-006). To order these documents, visit: http://www.epa.gov/ocepa111/NNEMS/oeecat/docs/1130.html .	
<p style="text-align: center;">Office of Prevention, Pesticides and Toxic Substances Office of Pollution Prevention and Toxics Economics, Exposure and Technology Division</p>	
Contact: Christina Cinalli, U.S. EPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 202-564-8542, Fax: 202-564-8671, Email: cinalli.christina@epa.gov	Statutory Authorities: TSCA Oct 1976, USC Title 15, Sec 2601 (PL 94.469); Pollution Prevention Act, USC Title 42, Sec 13101; FIFRA, USC Title 7, Sec 20
Program Title/Description: Buy Clean - Provides scientific information and data, tools, resources, and incentives (e.g., discounts for first-time purchase of approved products, stipends for training participating custodial staff, professional development credit and materials for school staff) to promote the use of environmentally preferable chemicals, to educate and encourage schools to purchase environmentally preferable products and services that will help to create healthier indoor learning and working environments. Schools and support staff, including science teachers, custodial and maintenance personnel, county health officials, product vendors, and communities, participating in the pilot program are working with program partners and stakeholders, including states, school districts, individual schools, school administrators and universities to: evaluate products such as art and auto shop supplies, cleaners, and chemicals used in chemistry laboratories, on the basis of health, environmental, and product effectiveness and safety and flexibility for exchange with environmentally preferable products; establish a <u>procurement policy</u> for environmentally preferable purchasing (EPP); develop training manuals and handbooks; and incorporate safer products into inventory control and curriculum design. For more information, visit: http://www.epa.gov/opptintr/epp/index.htm .	
Key Projects/Resources:	Collaborating Organizations:
U.S. EPA Region 1 will create a handbook, titled <i>Guide To Products and Services On Massachusetts State Contract That Reduce The Risk Of Asthma</i> , to assess the effect, if any, that certain art and custodial cleaning supplies and pesticides in use have in inducing <u>asthma-related illnesses</u> among school children, and establish guidelines to help schools procure allergen-free products.	ALA, INFORM, Mass. Operational Services Division, Mass. Division of Occupational Safety, Mass. Multi-Agency Task Force on Environmental Health and Safety in Schools, Mount Sinai Medical Center, Children's Environmental Health Program

<p>U.S. EPA Region 1 - The Western Massachusetts Coalition for Occupational Safety and Health (MassCOSH) is working with Chicopee Public Schools to identify, evaluate and purchase environmentally preferable <u>cleaning products</u> and related services that minimize asthmatic school children and staff's exposure to <u>chemical allergens</u>, and trains custodians on the use of selected products, anticipating that the district will eventually incorporate EPP policies as part of participation in the IPM program.</p>	<p>Chicopee Public Schools, Springfield School District, Western Mass. Coalition for Occupational Safety and Health, Healthy Schools Network, Mass. Operational Services Division, Mass. Office of Technical Assistance, Springfield Education Association, UFCW Union, Local 1459 Dept of Public Health, Operational Services Division, Office of Technical Assistance for Toxics Use Reduction, Inform, Inc., and Toxics Use Reduction Institute Cleaning Laboratory. MassCOSH and partners</p>
<p>U.S. EPA Region 2 - The project Director at the Dr. Charles E. Brimm Medical Arts High School is working with the Science Preparation Alliance of Rutgers and Camden (SPARC) at Rutgers Univ. to develop the 'Buying Green for Chemistry Labs' program and design chemistry lab activities and curricula based on the principals of 'green chemistry' using environmentally preferable chemicals, serving a large <u>minority</u> student population as well as an under-served student population. The project will actively involve and train teachers on alternative <u>product purchasing</u>.</p>	<p>Dr. Charles E. Brimm Medical Arts High School, Science Preparation Alliance of Rutgers and Camden (SPARC) program at Rutgers Univ.</p>
<p>U.S. EPA Region 2 - Isles, Inc. will designate and train a pilot elementary school in the City of Trenton school district to purchase and use environmentally friendly cleaning and <u>pest management</u> products and will recruit the participation of community groups addressing <u>indoor air issues</u>. The pilot school will also serve as an advocate for <u>green construction</u> practices, as part of the Abbott school reconstruction project, and project results will be integrated with other <u>environmental health</u> initiatives and disseminated to school districts involved in the U.S. EPA's <i>IAQ Tools for Schools</i> Program.</p>	<p>Community members; City of Trenton Director of Health and Human Services, Director of Children Services, and Brownfield Coordinator; Monument School; Capital Health System, Rutgers Univ., EOHSI and UMDNJ; NJ Dept. of Environmental Protection; NJ Dept. of Health</p>
<p>U.S. EPA Region 3 - The PA Resources Council (PRC) and Conservation Consultants Inc. (CCI), with guidance from Rochester Midland, a firm specializing in environmentally preferable <u>cleaning supplies</u>, will assist the Pittsburgh Public School District in procuring environmentally preferable <u>custodial supplies</u> and integrating EPP policies in district purchasing procedures.</p>	<p>Pittsburgh Public School District and Conservation Consultants, Inc.</p>
<p>U.S. EPA Region 4 - The KY Pollution Prevention Center (KPPC) and Southern Appalachian Recycling (SRC) will assist public school districts within 8 eastern KY counties to procure environmentally preferable <u>cleaning supplies</u>, launch the <u>Integrated Pest Management</u> (IPM) model, and identify alternative chemicals that can be used in <u>chemistry laboratory</u> classroom exercises.</p>	<p>Southern Appalachian Recycling, Breathitt, Morgan, Lawrence, Johnson, Magoffin, Jackson, Martin, and Letcher Counties, and public schools in those counties</p>
<p>U.S. EPA Region 5 - The Univ. of WI-Extension Solid and Hazardous Waste Education Center, and the Sixteenth Street Community Health Center (SSCH) will assist the Milwaukee, South Division High School in identifying chemicals suspected to cause <u>asthma</u>, or <u>asthma-related illnesses</u> and to procure environmentally preferable <u>custodial supplies</u>, <u>pesticides</u>, art and auto shop classroom supplies, and chemicals for use in science lab exercises.</p>	<p>Sixteenth Street Community Health Center (SSCH), South Division High School</p>

<p>U.S. EPA Region 5 - The Safer Pest Control project based in Chicago, IL, is developing a "School IPM Products and Services Handbook" that will provide guidelines or writing contracts with <u>pest control</u> companies to practice IPM, and purchasing least-hazardous pest control products.</p>	<p>State pest control association representatives, state pesticide regulators, cooperative extension employees, IPM practitioners and advocacy organizations</p>
<p>U.S. EPA Region 8 - Works with ALA, the East Helena School District (serves a large <u>Native-American</u> and <u>African-American</u> student population) to develop <u>procurement policy</u> guidelines for purchasing alternative, environmentally preferable classroom supplies for art and <u>chemistry</u> lab classes.</p>	<p>American Lung Association, East Helena Public Schools</p>
<p>U.S. EPA Region 8 - The Jefferson County Local Emergency Planning Committee will provide assistance to public schools in Colorado by developing policy guidelines for procuring environmentally preferable chemicals to be used in <u>chemistry labs</u> and applying <u>green chemistry</u> practices to help curb the use of <u>toxic chemicals</u> in chemistry lab exercises.</p>	<p>Local Emergency Planning Committees, fire agencies, law enforcement agencies, teachers, administration, parents, students, and the public</p>
<p>U.S. EPA Region 9 - San Francisco Unified School District will purchase items such as school walk-in mats and high-efficiency <u>micro-filter vacuums</u>; implement a more environmentally preferable mopping/laundering system, and provide <u>custodial training</u> for improved routine cleaning practices to alleviate <u>asthma</u> and <u>asthma related illnesses</u>.</p>	<p>Bessie Carmichael Elementary School, Commodore Sloat Elementary School, Lakeshore Elementary School, Benjamin Franklin Elementary School, Lowell High School, Lincoln High School and McAteer High School, School Health Services, SFUSD Facilities Management Dept, American Lung Association, San Francisco Dept. of Public Health</p>
<p>U.S. EPA Region 9 - The Los Angeles Unified School District, serving a large <u>Hispanic</u> student population, will educate and train teachers and maintenance staff on the purchase and use of environmentally preferable <u>purchasing procedures</u> with respect to IPM, and school district <u>food services</u>.</p>	<p>Integrated Pest Management Institute, IPM Team, Pest Management Personnel, Food Services Personnel</p>
<p>U.S. EPA Region 10 - The Vashon Island School District, situated in King County, will develop environmentally preferable <u>procurement policy</u> guidelines for <u>cleaning products</u>, art supplies, and <u>pesticides</u>.</p>	<p>King County Directors Association, WA Toxics Coalition, and Public Health Consultant</p>
<p>Office of Solid Waste and Emergency Response Office of Solid Waste Communications, Information and Resource Management Division</p>	
<p>Contact: Barbara Roth, U.S. EPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 703 308-7890 Email: roth.barbara@epa.gov</p>	<p>Statutory Authorities: Resource Conservation and Recovery Act</p>
<p>Program Title/Description: Communication Services - Enhance public access to and awareness of Office of Solid Waste Programs, particularly targeting the interests of students and school teachers. For more information, visit: http://www.epa.gov/epaoswer/osw/.</p>	

Key Projects/Resources:	Collaborating Organizations:
<p>“Making A Difference” Campaign - aimed at educating and engaging youths in resource conservation and environmental protection. An integral part of this campaign is a tool kit entitled <i>Your Life, Your World, Your Choices</i>, a collection of outreach materials designed to show how youths can make a difference. Among these materials will be a school recycling guide, which will include activities that encourage students to start reuse/recycling programs (e.g., prom clothing, sporting goods swaps), create innovative environmental learning experiences and strengthen school and community ties. Funds received from these activities could be used to support school environmental projects and green purchases. Local retailers would benefit from an increased flow of recyclable materials. These activities will serve to broaden the scope of EPA's current school recycling handbook, one of the most frequently requested publications.</p>	
<p>Office of Solid Waste and Emergency Response Office of Solid Waste Hazardous Waste Identification Division</p>	
<p>Contact: Kristin Fitzgerald, U.S. EPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 703-308-8286 Email: fitzgerald.kristin@epa.gov</p>	<p>Statutory Authorities: Resource Conservation and Recovery Act</p>
<p>Program Title/Description: Hazardous Waste Identification - Provides a list of common hazardous waste substances and offers technical guidance for safely disposing of the waste at certain sites. For more information, visit: http://www.epa.gov/epaoswer/hazwaste/id/index.htm.</p>	
Key Projects/Resources:	Collaborating Organizations:
<p>Facilitating Best Waste Management in Academic Research Institutions - A collaborative, consensus-based project with the Howard Hughes Medical Institute, ten leading academic research institutions affiliated with the Institute, and state environmental agencies have developed a best practices approach for managing hazardous wastes in academic research institutions, which includes effective and practical approaches for stimulating additional reuse and recycling of chemicals. EPA has issued a Report to Congress on this project.</p>	<p>Howard Hughes Institute</p>
<p>Office of Solid Waste and Emergency Response Office of Solid Waste Hazardous Waste Minimization and Management Division</p>	
<p>Contact: Priscilla Halloran, U.S. EPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 703-308-8802, Fax: 703-308-8433, Email: halloran.priscilla@epa.gov</p>	<p>Statutory Authorities: Resource Conservation and Recovery Act, Section 8001 (a)</p>
<p>Program Title/Description: Waste Minimization Program - Runs the National Waste Minimization Partnership Program, which seeks to recognize businesses and organizations that voluntarily set and achieve hazardous waste reduction goals. Tests and nurtures innovative approaches to chemical use/waste and waste reduction. One major approach being tested in the college and university setting is the Chemical Management Services (CMS) business model. This model engages a customer with a service provider in a strategic, long-term contract to supply and manage the customer's chemicals and related services. Compensation shifts from the traditional volume-based approach to a quality and quantity of services delivered approach. These services range from the purchasing of chemicals to managing inventory and waste to providing data for environmental reports, ultimately serving to optimize processes, reduce chemical life-cycle costs and risks, and reduce environmental impact. For more information, visit: http://www.epa.gov/epaoswer/osw/.</p>	

Key Projects/Resources:	Collaborating Organizations:
<p>Applying Chemical Management Services in Educational Institutions Pilot - Universities, secondary schools, and research laboratories require chemicals for research, educational, and maintenance purposes. Chemical use is typically characterized by a high diversity of chemicals used in relatively small quantities by many users and labs. Under this project, case studies are being developed to demonstrate best practices in chemical management in educational institutions. In addition, this project is conducting a pilot with a university to explore whether CMS could assist in better understanding what chemicals are on their campuses, reduce the amount of chemicals, and better manage their chemicals and related wastes. This project was designed by HQ, Region 1, and Region 9.</p>	<p>University of New Hampshire, Dartmouth</p>
<p>Office of Solid Waste and Emergency Response Office of Solid Waste Municipal and Industrial Solid Waste Division</p>	
<p>Contact: Terry Grist, U.S. EPA, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, Tel: 703-308-7257, Email: grist.terry@epa.gov</p>	<p>Statutory Authorities: Resource Conservation and Recovery Act</p>
<p>Program Title/Description: WasteWise - A voluntary partnership program, since in 1994, that seeks to reduce municipal solid waste through innovative waste prevention and recycling techniques. More than 1200 partners from businesses, government, and institutions have reported a reduction of 35 million tons of municipal solid waste. For more information, visit: http://www.epa.gov/epaoswer/osw/.</p>	
Key Projects/Resources:	Collaborating Organizations:
<p>WasteWise School/Education Sector Partners - Marketing materials have been developed for universities, colleges, secondary and other schools. With many schools and educational institutions as partners, the program is able to provide a variety of case studies on its website. At the annual awards ceremony, there is a special “schools” awards category. A few years ago, WasteWise held a live 2-hour national satellite broadcast on college waste prevention and recycling, co-sponsored by the College and University Recycling Council of the National Recycling Coalition. The forum featured representatives from California State University at Sacramento, the University of Colorado at Boulder, Emory University, and the University of Virginia. More recently, WasteWise has started developing a “tool kit” for schools wanting to set up a WasteWise recycling and waste prevention program.</p>	<p>National Recycling Coalition</p>

EPA Region 1

Contact: Joan Jouzaitis, K-12 Schools Workgroup Chair, Office of Environmental Stewardship, Assistance and Pollution Prevention Unit, EPA Region 1, 1 Congress Street, Suite 1100, Boston, MA 02114-2023, Tel: 617-918-1846, Email: jouzaitis.joan@epa.gov

Statutory Authorities: Asbestos Hazard Emergency Response Act, USC Title 15, Sec 2641; Asbestos School Hazard Abatement Reauthorization Act of 1990; Clean Air Act, USC Title 42, Sec 103; Clean Water Act; FIFRA, USC Title 7, Sec 20; Food Quality Protection Act, USC Title 7, Sec 136; Pollution Prevention Act, USC Title 42, Section 13101; Resource Conservation and Recovery Act; Safe Drinking Water Act, Section 1442; Toxic Substances Control Act, USC Title 15, Sec 2601

Program Title/Description: Office of Environmental Stewardship (OES) and Office of Ecosystem Protection (OEP) - Coordinates pollution prevention outreach efforts and activities addressing environmental issues in schools with a Schools Workgroup and a multi-programmatic K-12 Schools Steering Committee to help schools comply with existing U.S. EPA and other federal and state laws and promotes school involvement in voluntary environmental programs such as *IAQ Tools for Schools*, Diesel Bus Initiative, Mercury Training for Schools, Chemical Selection/Management/Disposal outreach to schools, ENERGY STAR, Integrated Pest Management; lead abatement, Wetlands Teacher Training, radon, Urban Environmental Program, Asbestos Hazard Emergency Response Act, the Regional Asthma Strategy, and outreach on lead in drinking water. The Region is currently developing a K-12 schools Web site which will integrate various schools-related efforts. This site may be found at <http://www.epa.gov/region1/about>. For more information, visit: <http://www.epa.gov/region1/about>.

Key Projects/Resources:

Incentives Analysis Project - This effort, funded through OECA, will obtain input from school personnel and those actively involved with schools (e.g., principals, superintendents, facilities personnel, school committees, etc.) in order to determine what motivates schools to perform well with respect to environmental responsibilities, as well as what barriers exist to positive performance. The Region will plan future activities based upon input received from phone surveys and focus groups.

Collaborating Organizations:

ABT Associates; Various schools' stakeholders (principals, school committees, facilities personnel, teachers, nurses, etc); State Depts. of Environment, Education, Labor, Agriculture, Health, etc; U.S. EPA; OECA

Environmental Management System Pilot Project in ME - Through funding from the pollution prevention program, Office of Water and Office of Children's Health, U.S. EPA has entered into a Cooperative Agreement with the American Lung Association of Maine to pursue pilot EMS development in at least one to two Maine schools. Pilot schools for the project will be from the South Portland, ME and Wiscasset, ME school systems, with the United Technologies Center (a vocational school) in Bangor, ME offering technical advice/input. A facilities consultant as well as ENSR (which has extensive EMS experience) have been brought into the project to offer support.

American Lung Association of ME; Portland School District; South Portland School District; ME Dept's. of Education, Environmental Protection, Agriculture and Labor; Brant Miller- facilities consultant; EMS consultant, TBD; U.S. EPA-Offices of Water and Children's Health, Pollution Prevention program; U.S. EPA Regions 5 and 9; Regional Schools Team; participants in MA EMS pilot project (below)

<p>Environmental Management System Pilot Project in MA - Through funding from the pollution prevention program, U.S. EPA has entered into a Cooperative Agreement with MA DEP to test EMS development in Amherst, MA and Lee/Lenox/Monterey, MA (working together as a collective). This project is built off an existing Municipal Stewardship grant to MA DEP, such that participants in Lee/Lenox/Monterey and Amherst will be able to take advantage of training, meetings, and an EMS development schedule set forth in that grant.</p>	<p>MA Dept. of Environmental Protection; participants of MA Municipal Stewardship grant EMS project; participants in ME EMS pilot project; MATS; Healthy Schools Council; Towns of Lee, Lenox, Monterey and Amherst; U.S. EPA Pollution Prevention program; U.S. EPA Regions 5 and 9; Regional Schools Team; participants in ME EMS pilot project (above)</p>
<p>Improving Internal Coordination Re: K-12 Schools Issues - We are striving to improve coordination amongst Regional staff involved in K-12 schools related work through: formation of a K-12 Schools Workgroup and Steering Committee, "Learning Sessions" amongst Regional staff involved in K-12 schools issues, creation of a Regional database for tracking/targeting, creation of a single schools brochure addressing multi-media impacts, and creation of a single multi-media Regional schools web page.</p>	<p>Regional staff involved in schools-related work, individual projects will entail working with New England school representatives, various HQ offices (such as OW, OCHP, OECA, OPPT OSWER and ORIA), and grantees (state agencies and/or non-profits)</p>
<p>Supplemental Environmental Projects - When EPA issues an enforcement action to some organization that has violated environmental regulations, this entity may choose to perform an environmental project in lieu of payment of some portion of the penalty dollars assessed. The Region encourages the incorporation of SEPs where the beneficiary of the project is a K-12 school, and we have successfully settled several cases where SEPs were directed towards schools. Through these SEPs, we have been able to provide Providence, RI schools with pollution prevention training, chemical inventorying software, chemical removals, and microscale chemistry equipment (Brown University SEP), to provide Connecticut schools with hazardous waste minimization and management training, chemical inventories, chemical clean-outs and hazardous waste storage cabinets (United Waste Oil SEP), and also to retrofit a portion of the city of Boston's diesel school buses with particulate filters and ultra low sulfur diesel fuel, resulting in a 90% reduction in particulate emissions (Waste Management Inc. of MA SEP). The Region will continue to explore the possibility of settling additional cases with SEPs that benefit schools.</p>	<p>Regional staff involved in enforcement case development/settlement, as well as Regional staff involved in schools related work. In order to leverage SEPs to benefit schools, the individual or organization violating the law will need to suggest this type of SEP, and work with U.S. EPA to shape specifics of the project.</p>
<p>Laboratory Safety Workshop "Leadership in Safety" - Sponsored by the Office of Environmental Measurement and Evaluation for 11 area high school principals and administrators.</p>	<p>James A. Kaufman & Associates; Safety Institute</p>
<p>Maintaining and sustaining Infrastructure/Network Building among state/local/non-profit entities working with schools--The Region has found that in order to have success implementing environmental programs in schools (and particularly multi-media/holistic efforts), it has been important to involve a number of state/local/non-profit entities in project/program development. Therefore, we have formed multi-agency/entity workgroups in several New England states, and have leveraged resources from these various groups in order to accomplish goals. These groups meet periodically, and have been utilized for information sharing and planning future activities.</p>	<p>State Dept's. of Environmental Protection, Labor, Education, Agriculture and Health; non-profit and interstate organizations (NE PETE, ALA, NEWMOA, NESCAUM); local boards of health</p>

EPA Region 2

Contact: Matt Hiester, U.S. EPA Region 2, 290 Broadway, New York, New York 10007-1866, Tel: 212-637-4003, Email: hiester.matthew@epa.gov

Statutory Authority: Clean Air Act, USC Title 42, Sec 103

Program Title/Description: EPA Region 2 - Administers the *IAQ Tools for Schools* Program for schools in New York, New Jersey, Puerto Rico and the US Virgin Islands and provides assistance and training to help schools implement the Program and develop an IAQ management plan.

Key Projects/Resources:

Collaborating Organizations:

The *IAQ Tools for Schools* Network for Schools in NY and NJ provides hands-on training and technical assistance to schools wishing to implement the *IAQ Tools for Schools* Program. This is a year long training and assistance series that results in program participants fully implementing *IAQ TFS*. Contact: Kim Peterson, Tel: 732-445-2582. For more information, visit the Web site: <http://cook.rutgers.edu/~ocep>.

Office of Continuing and Professional Studies-Rutgers Univ.; NJ Association of Designated Persons; NJ Dept. of Health and Senior Services; Global Learning, Inc.; SUNY Albany; NY Superintendents of Buildings and Grounds.

NJ IAQ Standard for Public Buildings - NJ is one of the few states in the U.S. that has a requirement that all public buildings (including public schools) have an IAQ management plan in effect and that each school has a designated IAQ coordinator. Region 2 provides grant funding to the NJ Dept. of Health and Senior Services to fund a position to coordinate state *IAQ TFS* activities relating to the state IAQ standard. Contact: Peter DeTroia, Tel: 609-984-1863. For more information, visit the Web site: <http://www.state.nj.us/health/eoh/peoshweb/>.

NJ Dept. of Health and Senior Services; Public Employees Occupational Safety and Health (PEOSH)

IAQ TFS in NYC - With nearly 1200 school buildings and over 1 million children, NYC is the largest public school district in the U.S. As of 2001, *IAQ Tools for Schools* has been adopted as a city-wide Dept. of Education policy with all buildings slated to implement by the 2005 school year. Region 2 supports these efforts through grant funding to the city as well as providing technical and training assistance to district schools. Contact: Emerson Greenidge, Tel: 718-935-2319.

NYC Dept. of Education, Office of Occupational Safety and Health

IAQ TFS and Asthma Management in Puerto Rico schools - Through grant funding and technical support, Region 2 has several initiatives in Puerto Rico aimed at providing healthier environments and reduced asthma incidences in schools. Key materials, both from the existing *IAQ TFS* and new materials, are being translated into Spanish and reformatted to meet the specific geographic, climatic and cultural needs of Puerto Rico. Implementation of school-based management plans will follow. Contact: Dr. Joseph Ponessa, Tel: 732-932-9349.

Rutgers Univ. Cooperative Extension Service, Univ. of Puerto Rico (San Juan), Univ. Metropolitana (San Juan), Puerto Rico Dept. of Health, Colores de Asthma

Diesel School Bus Initiative - Recent studies have shown that diesel exhaust can be a major asthma trigger. Region 2 has taken the lead in developing a national program aimed at educating school administrators about the health impacts of diesel exhaust on school-aged children and introducing anti-idling and diesel school bus retrofit efforts into school districts. Initial pilots will be conducted in Region 2 (focusing on high asthma areas) over the coming year. Contact: Maureen O'Neill, Tel: 212-637-5025.

**EPA Region 4
Air Pesticides and Toxic Management Division, Pesticides and Toxic Substances Branch
Children's Environmental Health Program**

Contact: Wayne Garfinkel, Children's Environmental Health Coordinator, EPA Region 4, Air, Pesticides and Toxics Management Division, 61 Forsyth Street, Atlanta, GA 30303-8960, Tel: 404-562-8982, Fax: 404-562-8972, Email: garfinkel.wayne@epa.gov

Statutory Authority: Clean Air Act, USC Title 42, Sec 103; TSCA, Sec's 10, 26, 405 and 406; Residential Lead-Based Hazard Reduction Act, Sec 1018; FIFRA, Sec 20

Program Title/Description: Children's Environmental Health Program (CEHP) - Encompasses all Region 4 projects that deal with children's environmental health issues, including: air, asbestos, lead, pesticides, indoor air, asthma, radon, hazardous substances, toxics, water and waste. The Program aims to: establish environmental health education and outreach activities to protect children from environmental health threats in homes, schools and communities; reduce children's exposure to environmental hazards; reduce incidents of childhood lead poisoning and asthma. For more information, visit: <http://www.epa.gov/region4/air/childrenshealth/region4.htm>.

Key Projects/Resources:

Collaborating Organizations:

The Community-based environmental health education curriculum was developed by Emory Univ.'s Rollins School of Public Health to provide ongoing support for community-based children's environmental health programs through partnerships with community educators such as student nurses, health education students, pre-K to second grade teachers.

Emory Univ. Rollins School of Public Health, ATSDR, CDC, State and local agencies

The "Water Sourcebook for Schools" - Provides a series of classroom environmental activities for the K-2, 3-5, 6-8, and 9-12 grade levels, addressing topics such as drinking water, ground water, wetlands, coastal, wastewater. Region 4 also conducts workshops on the Water Sourcebook targeting the interests of environmental educators and teachers.

Legacy, Inc.; AL Dept. of Environmental Management; Univ. of North Alabama; Environmental Teacher's Institute (SC) and the Environmental Justice Conference (GA)

The USDA Home Assist Programs - Provides training and education and outreach materials (e.g., videos, teacher activity guides and booklets on Environmental Health Hazards to Children), on the USDA Home Assist programs to supplement county extension existing education and outreach programs, including school health fairs, and training conferences and workshops for educators, nursery school personnel, and PTAs.

USDA Cooperative State Research, Education and Extension Service

The Begin Education Early (BEE) Program coordinates community health education on asthma and developing environmental health education materials.

Auburn Univ. School of Pharmacy

**EPA Region 4
Air Pesticides and Toxic Management Division, Pesticides and Toxic Substances Branch
Pesticides Section**

Contact: Dr. Troy Pierce, Pesticides Section, U.S. EPA Region 4, 61 Forsyth Street, SW Atlanta, GA 30303, Tel: 404-562-9016, Fax: 404-562-8973, Email: pierce.troy@epa.gov

Statutory Authority: FIFRA

Program Title/Description: Safe Pesticide Use & Kids Program - Targets the study of School (including daycare) Integrated Pest Management (IPM) as well as the development and dissemination of School IPM materials. Additionally, the Program has been branching out to educate children and parents on safe pesticide use. Grants and contracts have been provided to the Cooperative Extension Service, universities, state agencies and private companies to help shape the pesticide use in schools. Specific goals have been to target efforts in lower income, ethnic demographics and reduce pesticide use in schools and homes with children by using IPM. Measurement efforts include reporting reductions in pesticide use; adopting School IPM contracts between schools and pest control operators; and, determining pesticide hotline call changes during awareness activities.

Key Projects/Resources:

Collaborating Organizations:

Atlanta Safe Pesticide Use Campaign - An advertising/public relations firm was contracted to promote safe pesticide use in the childhood environment. Eighty large bus shelter posters are currently running in the Atlanta area targeted at the demographics of lower income, Spanish or African-American females, ages 25-54. The bus shelter posters are adaptations of the U.S. EPA "Home Safe Home" poster and the National Pesticide Information Center semi-truck placard. School presentations include a medical doctor speaker at faculty and staff meetings and school rallies using educators and skits. A total of 5,000 pesticide educational packets will be distributed to students. These packets contain activity books, coloring books, stickers, brochures and flyers for children to work on in the classroom and take home for their parents. The funds for this contract came from the Urban Initiative.

GA Poison Center; Pediatric Environmental Health Specialty Unit (PEHSU); Images USA (contractor); Nat'l. Pesticide Information Center (NPIC); Bouie Elementary; Bryant Elementary

Integrated Pest Management School Ambassador Project - Approximately 100 students in South Carolina are completing classroom sessions, laboratory exercises and field trips to learn basic IPM principles. Vegetable gardens have been established at schools to teach students insect identification, management & collection. IPM educational notebooks were developed that meet the science objectives of the appropriate grades. A one week camp took place in June 2002. Teachers have indicated that students involved in the Project have improved scores on the science section of state achievement test. Selected students will become IPM Ambassadors for their community. This project is a grant funded to Clemson Univ.

Charleston County, SC; Cooperative Extension Service; Clemson Univ.; E.B. Ellington Middle School; Schroder Middle School; 4-H; Coastal Research & Education Center

Promotion and Maintenance of IPM in Schools and Daycares - This is a recent project with the objectives to: establish IPM demonstration programs with daycare centers and schools to measure risk reduction; develop and distribute training kits to promote IPM in schools; provide training on IPM to pest management professionals and school/nursery personnel; develop information packets on the health and toxicity of pesticides commonly used in School/Daycare IPM for distribution to parents and school staff; and, develop and conduct surveys on School IPM acceptance as a measure of training program impact and risk reduction. This project is a grant funded to the Florida Department of Agriculture & Consumer Services and contracted to the Univ. of Florida. For more information, visit: <http://schoolipm.ifas.ufl.edu/>

Univ. of FL; Univ. of TN; FL Dept's. of Education, Agriculture and Consumer Services

<p>Partnering With Pest Management Professionals on School IPM - Statewide survey was conducted to determine pest control practices in NC schools. Majority of responding schools use contracted pest control companies and 87 percent used pesticides to control pests in buildings. Demonstration School IPM projects were established in two counties. Baseline was established for levels of pest control achieved with traditional methods. Experimentally, five schools were switched to an IPM program and four schools were kept at traditional pesticide applications. A researcher aided the pest control company with IPM. Training materials are in final development and larger scale pest control operator training is upcoming. This project is a grant funded to NC State Univ. To learn more, visit: http://www.ces.ncsu.edu/depts/ent/notes/Urban/index.htm.</p>	<p>NC State Univ.; Structural Pest Control Division; League of Women Voters; Wake County Schools; Tesh Pest Control; Cooperative Extension Service</p>
<p>Implementing School and Community IPM in Mobile County, AL - 10 workshops are being held to train school staff, teachers, administration and pest control operators on IPM practices. A total of 98 schools will receive IPM educational materials. A television public service announcement will be created and at least 10 community events will provide for education and distribution of materials concerning Community IPM. This project is a grant funded to the AL Dept. of Agriculture and Industries and contracted to Auburn Univ.</p>	<p>Auburn Univ.; AL Dept. of Agriculture and Industries; Mobile County Public Schools</p>
<p>FL Pesticide School Poster Project - Approximately 2,400 posters were distributed: one to each public school in FL. One poster titled "Safe-T" was distributed to elementary and middle schools and another poster titled "Play What You Want" was distributed to high schools. The posters went to the science department heads. The three primary messages of these colorful posters are: 1) always follow the pesticide label; 2) make sure an applicator who is hired to apply pesticides in the home is licensed; and, 3) do not use agricultural pesticides in the home. This project is a grant funded to the FL Dept. of Agriculture and Consumer Services. To learn more, visit: www.safepesticideuse.com.</p>	<p>FL Dept. of Agriculture and Consumer Services; Gary Gruby Studios; Hothead Studios</p>
<p>EPA Region 4 Pollution Prevention Program</p>	
<p>Contact: Dan Ahern, P2 Program Manager, 4APT, U.S. EPA, 61 Forsyth Street, Atlanta, GA 30303, Tel: 404-562-9028, Fax: 404-562-9066, Email: ahern.dan@epa.gov</p>	<p>Statutory Authority: Pollution Prevention Act Nov 1990, USC Title 42, Sec 13101 (PL 101.508 Sec 6501)</p>
<p>Program Title/Description: Technical Assistance Programs - Coordinate State and other technical assistance programs on primary issues involving <u>waste reduction</u> and <u>energy efficiency</u>. For more information, visit: http://www.epa.gov/region4/air/r4p2plan.htm.</p>	
<p>Key Projects/Resources:</p>	<p>Collaborating Organizations:</p>
<p>The Persistent Bioaccumulative and Toxic(PBT) Initiative - Focuses efforts to reduce/eliminate certain substances that can cause environmental hazards and has selected for their 2002-03 initiative to implement the Mercury Reduction in Schools Program to eliminate and remove mercury products from AL schools. For more information, visit: http://www.epa.gov/pbt.</p>	<p>AL Dept. of Environmental Management; the AL Waste Reduction and Technology Transfer (WRATT)</p>
<p>The Environmentally Preferable Purchasing (EPP) program - The KY P2 Center received a national grant to develop and assist school districts implementing the Buy Clean program. For more information, visit: http://www.epa.gov/epp.</p>	

EPA Region 5

Contact: Maryann Suero, Regional Team Manager, Children's Health, 77 West Jackson Boulevard (T-13J), Chicago, IL 60604, Tel: 312-886-9077, Fax: 312-886-9697, Email: suero.maryann@epa.gov

Statutory Authority: Individual programs may operate under specific statutory authorities

Program Title/Description: **Integrated School Environmental Management Systems (EMS)** - Coordinated by the Region 5 multi-media team that addresses children's health, with a focus on school environmental health and potential exposure to hazardous chemicals, including poor indoor air quality, asbestos, mercury, pesticides and other hazardous chemicals, as part of a coordinated effort with the *IAQ TFS*, Hazardous Chemical Inventory and Disposal, and IPM programs. Using the EMS approach, the Region will develop an environmental policy for the school district, a self-audit of factors which contribute to hazardous exposures within the school setting, such as a measure of indoor air quality, and presence of asbestos, mercury, pesticides or other hazardous chemicals, provide training for administrative personnel to assess awareness and competence of maintaining school facilities and evaluate improvements in the school environment. For more information, visit: <http://www.epa.gov/region5/>.

Key Projects/Resources:

Collaborating organizations:

The Asbestos Compliance Assistance & Outreach for Charter Schools - A two-year initiative (FY02-03) to provide compliance assistance, including educational printed materials, telephone communication, and training to school staff, to an estimated 360 new Charter Schools that have been established in the region over the past five years, many of which have occupied older commercial buildings that may be contaminated with environmental hazards and asbestos and in need of substantial renovation and building upgrades. During the second year, the region will monitor the schools' progress at complying with regulations and building conditions specified under the Asbestos Hazard Emergency Response Act (AHERA) through inspections.

U.S. EPA Office of Children's Health Protection, State charter school coordinators and the statewide charter school associations

The Development of School Environmental Management System Template - Provides an environmental management system (EMS) template for schools that will be developed based on input provided by U.S. EPA, States, school districts and school health and safety groups.

IN Dept's. of Environmental Management, Health, Education, U.S. EPA Region 1

The Pesticides Program Section using FIFRA discretionary monies funds a variety of State or advocacy projects relating to school IPM, including conducting Statewide surveys, developing manuals and a video, facilitating workshops for school personnel, and structural pest control operators, school curricula and implementing demonstration pilot schools.

State Cooperative Extension Services, State Dept's. of Agriculture, the IL Dept. of Public Health, advocacy organizations, State pest control associations

IAQ TFS Implementation is being incorporated into larger State/Local environmental health programs, and the Region is working with agencies to include it in Asthma, Air Toxics and other School-Based Environmental Health Programs. Currently integrating *IAQ TFS* into the Cleveland Air Toxics Project, emerging community-based air toxic projects, as well as Statewide Asthma Plans and their Implementation phases.

State environmental, health and education agencies; state-wide indoor air coalitions; state and local asthma coalitions; school districts; State and local ALA's

A School IPM Services & Products Handbook is being developed by Safer Pest Control Project with input from a working group including Purdue Univ. and other stakeholders from Region 5 states. The goal is to develop a school guidebook to aide in the purchase of less hazardous pest control products and provide guidelines for contracting with qualified pest control operators.

Safer Pest Control Project; Purdue Univ. State cooperative extension services, State pest control associations, State Dept. of Agriculture

An environmentally preferable purchasing program operated by the Solid and Hazardous Waste Education Center (SHWEC) and the Univ. of WI Cooperative Extension Service, is developing at South Division High School in Milwaukee, WI.

UW CES, SHWEC; South Division HS, Milwaukee, WI; 16th Street Center

In partnership with Illinois Dept. of Public Health (IDPH), Region 5 has participated in audits to inventory <u>hazardous chemicals</u> found in schools and provides technical assistance to schools to prioritize and collect chemicals for disposal that pose high health and safety risks when used in school settings.	IL Dept. of Public Health, various IL school districts
Software for School Maintenance Decision Makers is completed which educates <u>school maintenance</u> decision-makers about potential <u>environmental hazards</u> in schools, and about ways to reduce those hazards through implementing child safety practices.	Purdue Univ.
Region 5 is working with each State department of education to coordinate outreach efforts to educate schools, including State-specific resource materials and official letters sent to each school districts' superintendent, on health and safety risks of mercury in the school setting and to remove <u>mercury</u> containing materials from classrooms and laboratories.	MN Pollution Control Agency, IL Dept. of Public Health, IN Dept. of Environment, OH Dept. of Environment; WI Dept. of Health, MI Dept. of Natural Resources and Dept. of Environmental Quality
Designed in FY97, the Pollution Prevention Education Toolbox provides training materials, curricula and guidelines for educating schools on preventing pollution and environmental hazards in the school setting. Region 5 has provided training to Chicago Public Schools teachers on how to use the Toolbox and conducts staff trainings upon request. To download the Toolbox, visit: http://www.epa.gov/region5/waste/p2pages/toolbox.html .	Chicago Public Schools; Two Native American Schools in Detroit
Environmental Health in the Classroom is a presentation package on <u>school environmental health</u> that can be adapted for use with an audience of students, teachers, school administrators, janitors, facility managers, parents or PTO's.	Cook County Center for Children's Environmental Health (Region 5 PEHSU)
Milwaukee Public Schools (MPS) and Chicago Public Schools (CPS) are both Energy Star Building partners and have conducted several energy upgrades in district schools.	Milwaukee Public Schools; Chicago Public Schools
Region 5 Pesticides Program has funded a MI pilot to implement IPM in an inner-city high school (Cass Tech) in Detroit, through classroom projects and school-wide student involvement. This project is expanding to Saginaw and Benton Harbor schools.	MI Dept. of Agriculture, MI Cooperative Extension Services, biocontrol supplier; MI Pest Control Assn.
Region 5 Pesticides Program provides technical support and fosters information sharing among State regulators, State extension, State structural pest control associations, and advocates in school IPM, regardless of a voluntary or State mandated program. R5 hosted a 6-State School IPM Workshop in 1998 to promote adoption. R5 is a key Regional representative on the U.S. EPA School IPM Workgroup which monitors school IPM nationwide and provides regulatory input to proposed federal legislation. R5 has been involved in several national school IPM education workshops targeted at State regulators.	State Cooperative Extension Services, State Dept. of Agriculture, advocates, State pest control associations
Region 5 Pesticides Program is funding an advocate, IPM Systems, in IL to survey schools Statewide in their turf IPM practices, and is piloting schools and park districts in turf IPM and native landscaping.	IPM Systems, IL schools, IL and WI Coop. Extension Svcs, IL Dept. of Ag.
Region 5 Pesticides Program maintains a nationally recognized School IPM Directory which was created in 1998 to facilitate inter-State exchange of IPM information and resources, and to promote IPM adoption elsewhere.	
Region 5 promotes the use of native plants for landscaping school grounds because they do not need fertilizers, herbicides, <u>pesticides</u> or watering, thus benefitting the environment and reducing maintenance costs.	
Region 5 promotes the SunWise school program through outreach events in combination with other programs such as Beneficial Landscaping, Tools for Schools, <u>Children's Environmental Health</u> , and through events in conjunction with Earth Day.	Local community organizations, park districts, local government and schools.

<p>The TRI Program teaches school children how to access information about toxic releases in the zip code, county or city where their school is located, while adopting the topic to the school curriculum. In the process, children also learn the potential risks of these chemicals and how they can avoid potential harm. Hopefully, with this knowledge, the children would gain a better understanding about health and their environment. The program includes in-person class presentations and presentations through long distance learning.</p>	<p>Various school districts; Aquatic Research Institute</p>
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**EPA Region 7
Office of Children’s Health Protection**

Contact: Maureen Hunt, U.S. EPA Region 7, 901 North Fifth Street, Kansas City, KS 66101, Tel: 913-551-7722, Email: hunt.maureen@epa.gov

Statutory Authority: Children’s Protection Act of 1966, USC Title 15, Chp 30, Sec 1261

Program Title/Description: **Office of Children’s Health Protection** - Provided \$15,000 to fund a cooperative agreement with the Kansas City, KS Community College Regional Prevention Center for the “Healthy Homes for Vulnerable Populations in Kansas City and Omaha.” This project targets senior adults, young children, people with chronic illnesses and their service providers. The goal of this project is to improve indoor air quality and reduce asthma triggers by educating the population about the dangers of hazardous household products and providing safer alternatives. This project targets institutional care providers including day care facility operators, nursing homes and hospice care.

Key Projects/Resources:

The Office of Children’s Health Protection provided \$10,000 funding for a cooperative agreement with the not-for-profit group Storytellers, Inc. This coalition of visual and performing artists will train Wyandotte County high school students to teach middle school and elementary school children about Children’s Health Protection environmental issues. Approximately two hundred children will be directly involved and outreach will extend to the children’s families and to the larger community.

Collaborating organizations:

**EPA Region 7
Office of Policy and Management**

Contact: Maureen Hunt, U.S. EPA Region 7, 901 North Fifth Street, Kansas City, KS 66101, Tel: 913-551-7722, Email: hunt.maureen@epa.gov

Statutory Authorities: Clean Air Act, USC Title 42, Chp 85, Sec 7401; Toxic Substances Control Act, USC Title 15, Chp 53

Program Title/Description: **Mercury Awareness Training** - The **Children’s Health Protection** program in Region 7’s Office of Policy and Management with assistance from the Univ. of WI, provided training to educators regarding the hazards of mercury, potential routes of exposure and safety measures regarding cleanup. This training was given in Kansas City, MO, Atchison, KS, and Omaha, NE.

Key Projects/Resources:

The Superfund Division has been conducting training to the regulated community, the states and local fire departments via the Superfund Core Cooperative Agreement to establish mercury response/monitoring capabilities. For more information, contact: Eric Nold, tel: 913 551-7488, email: nold.eric@epa.gov.

Collaborating organizations:

EPA Region 7 Pesticides Branch

Contact: Mark Leshner, U.S. EPA Region 7, 901 North Fifth Street, Kansas City, KS, 66101, Tel: 913-551-7054 or 913-551-7165

Statutory Authority: FIFRA, USC Title 7, Sec 20; Food Quality Protection Act Aug 1996, USC Title 7, Sec 136 (PL 104.170)

Program Title/Description: **Good Bugs vs Bad Bugs** - Sponsored by the Pesticides Branch of the Water, Wetlands and Pesticides Division, advocates the use of beneficial insects (IPM), as an alternative method for controlling pests ("bad bugs") in schools. There is a bill in the Senate, School Environmental Program Act, mandating that schools implement the IPM plan and notify parents when/where pesticide usage would occur. For more information, visit: <http://www.epa.gov/region07/pesticides/index.htm>.

EPA Region 7 Radiation, Asbestos, Lead and Indoor Programs Branch

Contact: Vickie Angell, U.S. EPA Region 7, 901 North Fifth Street, Kansas City, KS, Tel: 913-551-7269, Fax: 913-551-7065, Email: angell.vickie@epa.gov

Statutory Authority: Asbestos Hazard Emergency Response Act Oct 1986, USC Title 15, Sec 2641 (PL 99.519)

Program Title/Description: **Healthy Schools Initiative** - Region 7 will partner with 100 K-12 schools in under-represented counties throughout the 4-State region to develop a resource package comprised of environmental information on all regional programs addressing issues concerning schools. The Initiative entails making personal visits to 10% of the schools list and developing a feedback mechanism to determine the level of interest in forming a partnership with EPA/RALI Branch. For more information, call 800-223-0425 or 913-551-7020.

Key Projects/Resources:

Promoting the "Tools for Schools" program in an effort to improve indoor air quality and raising awareness of asbestos regulations. During FY 2003, the RALI Branch will contact all Region 7 schools in the four States by providing an interest card, a general healthy schools resource and cover letter expressing our interest in a partnership to assist them in the implementation of the *IAQ Tools for Schools* program.

Collaborating organizations:

EPA Region 9

Contact: Bill Jones, Schools Liaison, U.S. EPA Region 9 (SPE-1), 75 Hawthorne Street, San Francisco, CA, 94105, Tel: 415-947-4276, Fax: 415-947-3519, Email: jones.bill@epa.gov

Statutory Authorities: Clean Air Act, USC Title 42, Section 103; Solid Waste Disposal Act, Sec 8001; Safe Drinking Water Act, Sec 1442; TSCA, Sec 10

Program Title/Description: **Comprehensive School Environmental Assistance Projects** - Provides ongoing support to school districts, community members, and other constituencies to coordinate activities in partnership with regional environmental agencies, organizations and programs, with a focus on: school setting; high performance facility design; and environmental issues at existing facilities (e.g., indoor air, lead, pesticides, asbestos, storm water, pollution prevention). For more information, visit: <http://www.epa.gov/region09/enviroed/index.html>.

Key Projects/Resources:	Collaborating Organizations:
<p>The Los Angeles Unified School District (LAUSD) Initiative - Region 9 works with LAUSD to promote and sponsor activities addressing issues such as <u>healthy learning environments</u>, <u>indoor air quality</u>, <u>respiratory health</u>, <u>high performance school design</u>, and has helped to implement a comprehensive <u>health and safety inspection</u> program, draft resolutions on environmental safety for LAUSD board consideration and adoption, establish regional networks for information exchange, advise on waste minimization and implementation of EPP program, and provided a grant for LAUSD to strengthen implementation of its IPM policy. For information on other programs with LAUSD, visit: http://www.laschools.org/oehs/.</p>	<p>LAUSD OEHS; American Lung Association (ALA); CA Energy Commission (CEC); CA Integrated Waste Management Board; CA Dept. Of Health Services; CA Dept. of Education; Division of the State Architect; LA Dept. of Water and Power; Southern CA Edison; Southern CA Gas; U.S. DOE</p>
<p>Region 9 is evaluating the needs of other large school districts including Fresno, Long Beach, San Diego, San Francisco, Sacramento, Phoenix and Las Vegas which will guide efforts to coordinate activities with key Federal, state and local agencies and organizations, including: increase awareness and understanding of <u>environmental risks and hazards</u>; identify significant risks at the schools and support facilities, train staff and prioritize problems; reduce student, staff and community exposure; reduce costs by operating efficiently and safely; and share best practices.</p>	<p>School districts, schools, state and local agencies, NGOs</p>
<p>Institutionalize <u>new facilities design</u> criteria; integrate into RFPs and construction specifications; collect data as part of building commissioning commitments to show lasting impacts (e.g., <u>energy efficiency</u> data can be translated into <u>reduced air emissions</u>).</p>	<p>Collaborative for High Performance Schools; CA DSA; CA CEC; utilities; CA American Institute of Architects; Coalition for Adequate School Housing</p>
<p>Participating in conferences of key statewide schools related organizations, broadening overall contact network, and developing partnerships.</p>	<p>CA Association of School Business Officials; CA Association of School Administrators; CA School Boards Association; Coalition for Adequate School Housing; and the CA School Nurses Association. Similar efforts in AZ and NV</p>