

## **Fiscal Year 2001 Healthy Homes Demonstration and Education Grants**

### **ALABAMA**

**University of Alabama at Birmingham  
Department of Environmental Health Sciences  
1530 3<sup>rd</sup> Avenue, South  
RPHB 317  
Birmingham, AL 35294-0022  
Amount of Award: \$850,000  
Contact: Ken Dillon, (205) 934-2072**

The University of Alabama at Birmingham School of Public Health in cooperation with the Citizens' Lead Education and Poisoning Prevention, Jefferson County Committee for Economic Opportunity, Jefferson County Department of Health, Woodlawn Family Resource Center, A World of Opportunity, YW Homes, Unified Testing Services, Alabama Safe Kids, and Outreach, Inc., will train Community Interns who will assess 600 units for environmental hazards (asthma triggers, lead, carbon monoxide, radon, falls, burns, electric shock and poisoning) and conduct basic interventions in 150 homes. HHI activities will be implemented in West End, a Federally-designated Enterprise Community, and Woodlawn, Brighton and Lipscomb.

### **ALASKA**

**Housing Finance Corporation  
P.O. Box 101020  
Anchorage, AK 99510-1020  
Alaska Amount of Award: \$700,000  
Contact: Mark Romick, (907) 330-8274**

The Alaska Housing Finance Corporation will partner with the Cold Climate Research Center to conduct Healthy Homes project activities in three communities, each representing a unique type. The initiative will focus on 35 homes of low-income families with children, including manufactured homes, and provide indoor air quality assessment, health screenings and housing remediation.

### **CALIFORNIA**

**Alameda County  
Community Development Agency  
Lead Poisoning Prevention Program  
2000 Embarcadero, Suite 300  
Oakland, CA 94606  
Amount of Award: \$850,000  
Contact: Steve Swartzberg, (510) 567-8446**

The Alameda County Lead Poisoning Prevention Program will collaborate with the Children's Hospital Oakland Ambulatory Clinic, the Regional Asthma Management and Prevention Initiative, and the Alameda County Public Health Department to provide multi-hazard housing interventions for 40 homes and provide in-home educational interventions in 100 homes. The targeted population is

families with asthmatic children living in Oakland. The partnership will also develop curricula for public health nurses, contactors and low-income workers.

## **CONNECTICUT**

**City of Stamford**  
**Department of Health and Social Services**  
**888 Washington Boulevard**  
**Stamford, CT 06904**  
**Amount of Award: \$850,000**  
Contact: Sandra Dennies, (203) 977-4190

The Stamford Health and Social Services Department will identify 300 asthmatic school children and provide their families with an asthma assessment, in-home education, and housing inspection, with code enforcement where necessary. Small grants and loans will be available for property owners to finance hazard reduction and code compliance.

## **MARYLAND**

**University of Maryland, Baltimore**  
School of Nursing  
515 Lombard Street  
Baltimore MD 21201  
Amount of Award: \$435,510  
**Contact: Claudia Smith, (410) 706-5470**

The University of Maryland School of Nursing in collaboration with the Association of Community Organization for Reform Now (ACORN) will develop and implement a two year Healthy Homes Project in Baltimore's Park Heights Neighborhood. Home assessments, extensive in-home education, and interventions will be conducted in 80 homes with Asthmatic children. The project will also produce videos and educational materials, including continuing education modules to be distributed by the American Nurses Association (ANA).

## **NEW YORK**

Medical and Health Research Association of New York City Inc.  
**40 Worth Street Suite 720**  
**New York, NY 10013-2988**  
**Amount of Award: \$500,000**  
**Contact: Diane Gover, (917) 957-0733**

The New York City Department of Health, the New York City Department of Housing Preservation and Development, Hunter College, Bridge Street Corporation and Neighborhood Housing Services of Bedford-Stuyvesant, Inc., will expand their Healthy Homes Initiative pilot to increase the number of units enrolled to 90, and allow them to conduct more extensive sampling. Additional training for property owners and the community will be conducted, and a hand-held computer application for the collection of data will be developed.

**Research Foundation of SUNY**

University at Buffalo School of Architecture and Planning  
Suite 211, The Commons

**520 Lee Entrance**

**Amherst, NY 14228**

Amount of Award: \$700,000

Contact: Beverly McLean (716) 829-2133 ext. 123

The State University of New York at Buffalo School of Architecture and Planning in collaboration with the Stanley Makowski Early Childhood Center, and the Herman Badillo School and Buffalo neighborhood block clubs will develop and implement a low-cost intervention model for homes built before 1939, and a community based awareness campaign that addresses childhood asthma, lead poisoning, unintentional injury and carbon monoxide poisoning. Program elements include a website, a video, and a model Neighborhood Healthy House. The target area includes the Masten, Ellicott and Fillmore Districts, which are encompassed by Buffalo's Federal Enterprise Community.

**WASHINGTON**

**Public Health Department of Seattle and King County**

**999 3<sup>rd</sup> Street, Suite 1200**

**Seattle, WA 98104-4039**

**Amount of award: \$937,879**

**Contact: Jim Krieger, (206) 296-6817**

Public Health of Seattle and King County will partner with The Seattle Housing Authority, the King County Asthma Forum, Youth Build, the City of Seattle Office of Housing, the University of Washington and Healthy Buildings Incorporated. An estimated 70 units in will undergo healthy home interventions for asthma triggers, lead, and other health and safety hazards under this demonstration project. The target population for this project consists of low-income households in the Seattle metropolitan area with one or more children with asthma. Housing units will be a mix of publicly owned SHA units, privately owned Section 8 units and privately owned units with no rent subsidy.

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**Fiscal Year 2001 Healthy Homes Research Grants****GEORGIA**

**Air Quality Sciences, Inc.**

1337 Capital Circle

Marietta, GA 30067

Amount of Award: \$210,299

**Contact: Anthony Worthan, (770) 933-0638**

The Environmental Protection Agency Building Assessment and Survey Evaluation (EPA BASE) study has provided baseline environmental data on types and concentrations of fungi normally found in commercial office buildings. The study objective is to establish BASE-like data on the normal

diversity of fungi for residential environments in the urban Atlanta metropolitan area. Fifty single-family detached homes in central city Atlanta will be randomly selected through a mass mailing. Intensive environmental sampling will be conducted at each home similar to the mold portion of the EPA BASE study. This “healthy home” mold database will serve as a guide for interpreting similar data collected in damp or water damaged homes in Atlanta and other similar climatic regions.

## **OHIO**

**University of Cincinnati**  
**Department of Environmental Health**  
P. O. Box 670056  
**Cincinnati, OH 45267-0056**  
**Amount of Award: \$448,789**  
Contact: John Michnowicz, (513) 558-3683

University of Cincinnati has recently developed a portable Fungal Spore Source Strength Tester (FSSST), which consists of an inner cup, through which HEPA-filtered air is directed onto the contaminated surface, and an outer cap, through which the released spores are transported to the bio-aerosol sampler. The proposed research will further evaluate the FSSST in the laboratory under various spore emission conditions from different building materials, and in the field for 20 homes by low-income families with children. This new method allows overcoming the limitations of conventional air sampling methods that cannot account for the fluctuating nature of fungal spore release.

## **MASSACHUSETTS**

**Radiation Monitoring Devices, Inc.**  
44 Hunt Street  
Watertown, MA 02472  
Amount of Award: \$449,444  
Contact: Arieh Karger, (617) 926-1167

The objective is to develop a low-cost, portable, biochip instrument that can be used to perform on-site evaluation of homes suspected of mold contamination. The instrument will collect a sample of room air and channel the mold spores through micro-fluidics to analysis chambers. A library of polyclonal antibodies and monoclonal antibodies will be produced to enable fluorescence detection of antibody-antigen complexes to evaluate both the total spore load and identify the concentration of spores from four common species.

## **NEW YORK**

**Columbia University**  
Joseph L. Mailman School of Public Health  
**60 Haven Avenue, B-106**  
**New York, NY 10032**  
**Amount of Award: \$505,365**  
Contact: Ginger Chew, (212) 305-1692

The proposed research is built on an ongoing study funded by National Institute of Environment Health Science and the Environmental Protection Agency. The cohort study follows 400 low-income and minority mothers and newborns for three years to evaluate exposure of multiple residential environmental hazards using comprehensive environmental measurements, biomarkers, and clinical evaluation of children. Targeted hazards include airborne particulate matter, lead, polycyclic aromatic hydrocarbons (PAH), allergens, environmental tobacco smoke (ETS) and pesticides in homes.

## **NORTH CAROLINA**

**Duke University**  
**Nicholas School of the Environment and Earth Sciences**  
**Box 90077, Durham, NC 27708-0077**  
**Amount of Award: \$405,217**  
**Contact: Marie Lynn Miranda, (919) 613-8023**

A GIS-based predictive modeling approach, built on an ongoing GIS modeling project on lead hazards funded by CDC, will characterize multiple home environmental health risks to children down to the individual house level. Targeted hazards are allergens and asthma triggers, lead, insect and rodent pests, mold and moisture problems, asbestos, radon, fire, and combustion products from heating and cooking appliances. Environmental sampling will be conducted in 300 homes in five North Carolina counties. The model will enable communities to allocate resources more cost-effectively into housing intervention programs across a range of risks.

**Research Triangle Institute**  
**P.O. Box 12194**  
3040 Cornwallis Road  
**Research Triangle Park, NC 27709**  
**Amount of Award: \$220,082**  
Contact: Dorothy Davenport, (919) 541-7298

The goal of the proposed research is to integrate a newly developed sampling device, Total Dust Vacuum, with a portable X-ray fluorescence (XRF) instrument. The Total Dust Vacuum will collect all the surface dust on a filter for XRF measurement. It is believed that this new instrument will provide efficient and reproducible sample collection, and yield rapid and accurate sample analysis results. This, in return, will permit immediate decisions about the presence of risks or requirements for clearance. The Total Dust Vacuum will be further developed to yield efficient collection for all common types of dusts and surfaces. Laboratory testing parameters will be optimized and the new instrument will be evaluated in 10 dwellings being tested for lead hazards.