

# Healthy Homes Initiative

## Community Participation Opportunities for Colleges and Universities

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## HUD's Goal

*To lead the nation to a future where housing is both affordable and designed, constructed, rehabilitated, and maintained in a manner that supports the health and safety of occupants.*



# Office of Healthy Homes & Lead Hazard Control

## Mission

*To reduce health and safety hazards in housing in a comprehensive and cost-effective manner, with a particular focus on protecting the health of children and other sensitive populations in low income households.*



# Office of Healthy Homes & Lead Hazard Control

- ▶ Enforces HUD's lead based paint regulations
- ▶ Provides grants to local and state governments and Native American Tribes to make housing lead safe
- ▶ Provides healthy homes demonstration grants
- ▶ Fund technical studies related to lead based paint and other environmental health hazards related to housing
- ▶ Further Public Education
- ▶ Development of policy and implementation of federal initiatives through participation with other federal agencies



# 2009 OHHLHC Strategic Plan

[http://www.hud.gov/offices/lead/library/hhi/hh\\_strategic\\_plan.pdf](http://www.hud.gov/offices/lead/library/hhi/hh_strategic_plan.pdf)

- ▶ Support research on links between housing and health & cost-effective methods to address hazards
- ▶ Mainstream healthy homes principles into housing construction, maintenance and inspection practices
- ▶ Build a national framework through partnerships to support state & local efforts to create healthy homes
  - Green & sustainable building practices
  - Building & housing maintenance codes
  - Education on healthy homes construction, renovation & maintenance practices



# OHHLHC Goal

## Build a National Framework

- ▶ Coordination with federal partners
- ▶ Identify & develop private sector partnerships
- ▶ Foster exchange of information with public and private organizations
- ▶ Identify and communicate best practices
  - Training programs
  - State laws and local codes & ordinances
  - Public Education
- ▶ Support local efforts through national and regional meetings and conferences

# Key Federal Partners in the Healthy Homes Initiative

- ▶ Office of Healthy Homes & Lead Hazard Control  
<http://www.hud.gov/offices/lead/index.cfm>
- ▶ Centers for Disease Control  
<http://www.cdc.gov/nceh/lead/healthyhomes.htm>
- ▶ US Environmental Protection Agency  
<http://www.epa.gov/iaq/>
- ▶ USDA University Extension –  
[http://www.csrees.usda.gov/nea/family/in\\_focus/housing\\_if\\_healthyhomes.html](http://www.csrees.usda.gov/nea/family/in_focus/housing_if_healthyhomes.html)
- ▶ U.S. Surgeon General's Office  
<http://www.surgeongeneral.gov/topics/healthyhomes/index.html>



# Key Federal Partners

- ▶ USDA Forest Products Laboratory  
[http://www.fpl.fs.fed.us/research/focus/advanced\\_srintro.shtml](http://www.fpl.fs.fed.us/research/focus/advanced_srintro.shtml)
- ▶ US Department of Energy – Weatherization Program  
<http://apps1.eere.energy.gov/weatherization/>
- ▶ Partners to Advance Technology in Housing (PATH)  
<http://www.pathnet.org/>
- ▶ HUD's Office of Policy Development & Research  
<http://hudatwork.hud.gov/po/r/mission.cfm>
- ▶ Healthy Homes Partnership  
<http://www.healthyhomespartnership.net/>





# Healthy Homes Initiative

## ▶ Background

- President Clinton's Executive Order 13045 – “Children's Environmental Health Risks and Safety” (1999)
- Healthy Homes Initiative Preliminary Plan (1999)
- 2008 National Healthy Homes Conference in Baltimore
- 2009 Surgeon General's Office Call to Action
- Development of Training Programs & Publications
- CDC / HUD – Healthy Homes Reference Manual

## ▶ Current Activity

- Federal Interagency Healthy Homes Workgroup Meetings
- Planning 2011 National Conference in Denver



# Healthy Homes Initiative Goal

## Mainstream Healthy Housing Principles

- ▶ New and improved and housing codes, and increased enforcement of existing codes
- ▶ Integration of Healthy Homes principles into construction, rehabilitation, weatherization and maintenance methods
- ▶ Use of Integrated Pest Management methods
- ▶ Promotion of smoke-free multifamily housing
- ▶ Inclusion of health outcomes in housing policy and energy efficiency programs.

# 1999 Healthy Homes Preliminary Plan

<http://www.hud.gov/offices/lead/NHHC/index.cfm>

- ▶ Identify where interventions would be appropriate
- ▶ Develop efficient intervention strategies
- ▶ Assess strategies to evaluate effective interventions
- ▶ Promote sustainable local programs which prevent & control toxic mold hazards
- ▶ Determine appropriate biomarkers to address health threshold levels for exposure to mold



# Healthy Homes Initiative

## Principal Focus of Effort

- Lead Paint
- Radon
- Asbestos
- Energy Savings
- Building Materials
- In Home Hobbies
- Mold & Moisture
- Pest Management
- Carbon Monoxide
- Smoke Free Housing
- Fire & Electrical Hazards
- Take Home Contaminants



# Healthy Homes Demonstration Grants

## Principal Goals

Develop, demonstrate and promote cost-effective, preventive measures to correct multiple residential safety and health hazards that produce serious diseases and injuries in children and other sensitive subgroups such as the elderly, with a particular focus on low income households.

<http://www.hud.gov/offices/lead/hhi/hhd.cfm>



# Healthy Homes Demonstration Grants

## Principal Objectives

- ▶ Carry out inspections and direct remediations in housing to improve residential safety & address health hazards
- ▶ Deliver education and outreach activities
- ▶ Build capacity to assure Healthy Homes projects are sustained and integrated into other programs.
- ▶ Identify cost–benefits of effective remediation actions



# Considerations in Undertaking a Healthy Homes Demonstration Project

- ▶ Identification of key planning participants
- ▶ Develop understanding of healthy homes issues
- ▶ Undertake Community Assessment
  - Age, type, and condition of housing
  - Age of population, potential housing related health issues
  - Knowledge of builders, remodelers, medical providers
- ▶ Evaluate Best Practices in relation to setting
- ▶ Identify needs and prioritize efforts
- ▶ Identify leaders and potential resources
- ▶ Develop a process to evaluate effort



# Healthy Homes Demonstration Grants

<http://www.hud.gov/library/bookshelf12/supernofa/nofa08/hhdsec.pdf>

## ▶ 2008 NOFA

- Funding provided through cooperative agreements
- Maximum funding of \$875,000
- Maximum implementation period of 36 months
- No Match required
- 65% of funds to be used on activities related to undertaking direct remediations or delivery of services within the home
- Lead hazard reduction work for de minimis levels only

## ▶ Listing of Prior Healthy Homes grants provided

<http://www.hud.gov/offices/lead/hhi/hhabstracts.cfm>

<http://www.hud.gov/offices/lead/assistance.cfm>





# College & University Participation in Healthy Homes Demonstration Grants

- ▶ University of Tulsa / University of Texas– San Antonio Health Department – Involved medical students in home assessments in Laredo, TX
- ▶ University of Wisconsin–Madison, WI School of Pharmacy – Assessment of homes and interventions to address health and safety hazards
- ▶ Case Western University School of Medicine – involved physicians in training in assessment of environmental health issues in housing and develop a sustainable model of early home interventions to improve health.



# College & University Participation in Healthy Homes Demonstration Grants

- ▶ **Mount Sinai School of Medicine**—home assessments and interventions to reduce asthma episodes
- ▶ **University of Texas–San Antonio Health Department** –provided education regarding childhood lead poisoning and investigate the relationship between lead exposure and personal and psychological factors.
- ▶ **University of Massachusetts–Lowell** – development of culturally appropriate home assessments and educational tools, and provided training to community and faith based organizations working with various population groups in Lowell.



# College & University Participation in Healthy Homes Demonstration Grants

- ▶ **Eastern Virginia Medical School** – study of impacts of identification and elimination of allergens in homes occupied by persons with asthma
- ▶ **University of Maryland – Baltimore School of Nursing** – developed community capacity to evaluate health risk factors in homes and undertake appropriate interventions
- ▶ **University of Alabama–Birmingham** – education of community interns to identify and correct health related hazards in housing.



# College & University Participation in Healthy Homes Grants

- ▶ **Montana State University** –child led asthma educational project with 7 Montana tribes
- ▶ **University of Minnesota** –faculty participation as expert consultant on American Lung Association mold and moisture project with 3 northern Minnesota tribes
- ▶ **University of Alaska-Fairbanks** –faculty assessment of changes in interior air quality associated with weatherization improvements in homes in Fairbanks and Hooper Bay



# Opportunities to Provide Support for Healthy Homes Initiatives

- ▶ Develop and support effective training and information exchange for health and housing professionals regarding codes and procedures
- ▶ Identify and facilitate dissemination of best practices of community based strategies
- ▶ Enhance the ability of OHHLHC funded lead hazard control programs to address Healthy Homes issues
- ▶ Participate in the implementation of a national Healthy Homes marketing plan

# OHHLHC Technical Studies Grants Support Healthy Housing Research

- ▶ Lead Technical Studies
- ▶ Green Building & Healthy Housing Technical Studies
- ▶ Eligible applicants include colleges & universities
- ▶ Grants of \$350,000 to \$700,000
- ▶ Funding is provided through cooperative agreements permitting HUD involvement in the focus and manner of the research

# Healthy Homes National Conference

- ▶ 2008 Baltimore – over 1000 participants
- ▶ 2011 Denver – planning underway
  - Development of workshop sessions
  - Interested in increasing participation by
    - colleges & universities
    - Community advocates
    - Local government managers



# Healthy Homes Training Center

- ▶ Funded by HUD and CDC
- ▶ Managed by the National Center for Healthy Housing
- ▶ Series on Transitioning to Healthy Homes:  
[www.healthyhomestraining.org/transitions](http://www.healthyhomestraining.org/transitions)
- ▶ Programs Highlighted: NYC, Baltimore, Houston, Alameda, Marion Co., Ohio

<http://www.nchh.org/Training/National-Healthy-Homes-Training-Center.aspx>





# Healthy Homes Training Center

## ▶ Current Courses

- Essentials for Healthy Homes Practitioners
- Launching a Healthy Homes Initiative
- Building Healthy Homes
- Integrated Pest Management for Multifamily Housing
- Pediatric Environmental Home Assessment

## ▶ Piloted Courses

- Code Inspections for Healthy Homes
- Lead Safe & Healthy Homes Work Practices
- Coastal Healthy Homes Improvement
- Flood Clean-up for Healthy Homes



# Some Other Training Courses

- ▶ EPA Mold Course

<http://www.epa.gov/mold/moldcourse/index.html>

- ▶ The New England Asthma Regional Council Integrated Pest Management Course

<http://www.asthmaregionalcouncil.org/about/IPM.html>

- ▶ Healthy Homes – Assessing Your Indoor Environment

<http://www.healthyhomespartnership.net>



# Some Healthy Homes Publications

- ▶ CDC Inspection & Reference Manuals  
<http://www.cdc.gov/nceh/publications/books/inspectionmanual/>  
<http://www.cdc.gov/nceh/publications/books/housing/housing.htm>
- ▶ HUD Moisture Resistant Homes Publication  
<http://www.huduser.org/publications/destech/moisturehomes.html>
- ▶ HUD 2005 Report to Congress on Mold & Moisture  
<http://www.hud.gov/offices/lead/library/hhts/report040105.pdf>
- ▶ HUD ONAP Mold Prevention Guide  
<http://www.hud.gov/offices/pih/ih/codetalk/docs/moldprevention.pdf>
- ▶ USDA Help Yourself to a Healthy Homes Booklet  
[http://www.hud.gov/offices/lead/library/hhi/HYHH\\_Booklet.pdf](http://www.hud.gov/offices/lead/library/hhi/HYHH_Booklet.pdf)



# Some Healthy Homes Publications

- ▶ Alliance for Healthy Housing –Rebuilding Water Damaged Homes

[http://www.afhh.org/res/res\\_publications\\_hurricane\\_recovery\\_flood\\_damage\\_dl.htm](http://www.afhh.org/res/res_publications_hurricane_recovery_flood_damage_dl.htm)

- ▶ OSHA Brief Guide to Mold in the Workplace

<http://www.osha.gov/dts/shib/shib101003.html>

- ▶ HUD Office of Policy Development & Research

<http://www.huduser.org/publications/pdrpubli.html>

- ▶ Office of Healthy Housing & Lead Hazard Control

<http://www.hud.gov/offices/lead/researchers.cfm>



# Some Healthy Homes Topic Websites

## ▶ Mold

- University of Minnesota

<http://www.health.state.mn.us/divs/eh/indoorair/mold/>

- State of California Department of Health

[http://www.cal-iaq.org/MIMH\\_2006-06.html](http://www.cal-iaq.org/MIMH_2006-06.html)

## ▶ Bed Bugs

- Cornell University

[http://www.nysipm.cornell.edu/publications/bb\\_guidelines/files/bb\\_guidelines\\_nyc2.pdf](http://www.nysipm.cornell.edu/publications/bb_guidelines/files/bb_guidelines_nyc2.pdf)

- University of Minnesota Extension Service

<http://www.extension.umn.edu/distribution/housingandclothing/DK1022.html>



# Some Healthy Homes Topic Websites

## ▶ Radon

- EPA Radon Map

<http://www.epa.gov/radon/zonemap.html>

- EPA radon resistant homes

<http://www.epa.gov/radon/rrnc/index.html>

## ▶ Carbon Monoxide

- EPA Introduction to Carbon Monoxide

<http://www.epa.gov/iaq/co.html>

- University of Alaska Extension

<http://www.uaf.edu/ces/publications-db/catalog/eeh/RAD-00756.pdf>



# Some Healthy Homes Resources

- ▶ Healthy Indoor Air (HIA) for America's Homes  
[http://www.montana.edu/wwwcxair/consumer\\_homepage.htm](http://www.montana.edu/wwwcxair/consumer_homepage.htm)
- ▶ National Center for Healthy Housing  
<http://www.nchh.org/>
- ▶ American Lung Association Health House Program  
<http://www.healthhouse.org/>
- ▶ New England Asthma Regional Council  
<http://www.astharegionalcouncil.org/>
- ▶ Canada Housing & Mortgage Association  
<http://www.cmhc-schl.gc.ca/en/inpr/bude/heho/index.cfm>



# Lead Hazard Control Grant Program

<http://www.hud.gov/offices/lead/lbp/lhc.cfm>

- ▶ Eligible applicants –
  - Local governments (city, town, county)
  - State Governments & Tribes with EPA certification authority
- ▶ Funding
  - Up to \$3 million with up to 3 year implementation period
  - Match required – may be
    - Applicant funds including in-kind and CDBG
    - Partner contributions and commitments from property owners
  - Focus on elimination of identified lead hazards to make property lead safe, but not necessarily lead free
  - May use funds to purchase XRF





# Lead Hazard Control Grant Program

- ▶ Must be housing constructed prior to 1978 with lead paint present – zero bedroom units, public housing and other HUD project based assisted housing is ineligible
- ▶ Requirements for Owner occupied housing
  - income less than 80% median income
  - 90% of owner units must have a child less than 6 years of age present
- ▶ Requirements for Rental Housing
  - vacant or occupied by tenants with income less than 80% median income, including units receiving tenant based rent assistance
  - Owner agrees to make available to low income tenants for not less than 3 years & market to families with children



# Lead Hazard Control Grant Program

## ▶ Required Activities

- Blood lead testing of children
- Assuring units are occupied by eligible households
- Lead paint inspections and lead risk assessments of housing
- Specification writing & monitoring of contractor work
- Elimination of all identified lead hazards in housing assisted
- Training of lead workers and evaluators
- Public education

## ▶ Ineligible Activities

- Acquisition of real property, or equipment over \$5,000
- Provision of medical treatment



# Lead Based Paint Resources

- ▶ HUD Lead Based Paint Regulations  
<http://www.hud.gov/offices/lead/enforcement/regulations.cfm>
- ▶ HUD Guidelines for the Evaluation and Control of Lead Based Paint Hazards  
<http://www.hud.gov/offices/lead/lbp/hudguidelines/index.cfm>
- ▶ EPA Lead Based Paint Regulations  
<http://www.epa.gov/lead/pubs/regulation.htm>
- ▶ National Lead Information Center  
<http://www.epa.gov/lead/pubs/nlic.htm>
- ▶ 1997 Memorandum on Fair Housing and Lead Paint  
[http://www.fairhousing.com/index.cfm?method=page.display&pagename=HUD\\_resources\\_leadpaint](http://www.fairhousing.com/index.cfm?method=page.display&pagename=HUD_resources_leadpaint)



# Additional Information from the Office of Healthy Homes & Lead Hazard Control

- ▶ General Information <http://www.hud.gov/offices/lead>
- ▶ OHHLHC Regional Healthy Homes Representatives  
<http://www.hud.gov/offices/lead/leadstaff.cfm>
- ▶ Federal Panel Presenter at OUP Conference
  - Dale Darrow
    - Telephone 612-370-3000 ext 2280
    - Email – [Dale.A.Darrow@hud.gov](mailto:Dale.A.Darrow@hud.gov)

