

HOME MODIFICATION RESOURCE GUIDE

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<http://www.homemods.org>

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A publication of

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<http://www.homemods.org>

THE NATIONAL RESOURCE CENTER ON SUPPORTIVE HOUSING AND HOME MODIFICATION

The Center's mission is to make supportive housing and home modification a more integral component of successful aging, long-term care, preventive health, and the development of elder-friendly communities. The Center was established in October 1999 with funding from The Archstone Foundation and The California Endowment.

Supportive housing refers to both service programs and housing settings that target semi-independent elderly who need assistance with daily activities. Examples include Section 202 housing and shared housing. **Home modification** refers to converting or adapting the living environment to make tasks easier, reduce accidents, and support independent living. Examples include installing ramps, hand-held showers, grab bars, better lighting, roll-in showers, and stair or chair lifts.

The goals of the Center are to: 1) promote aging in place; 2) help states, communities, the private sector and service providers improve supportive housing and promote home modifications; 3) maximize single family and multi-unit housing as a long-term care resource; 4) equip families and individuals with the knowledge to plan for their housing, health, and supportive service needs; and 5) increase accessible and supportive housing that promotes healthy, independent living.

The Center carries out applied research, evaluation, and policy analysis in the areas of supportive housing and home modification. It also provides training and education through Internet courses, workshops, conferences, and exhibits. In addition, it provides technical assistance, policy updates, and advisement to local home modification coalitions. Finally, the Center serves as an information clearinghouse for research, guidebooks, programs, and fact sheets that provide objective information.

For more information, please call (213)740-1364, e-mail homemods@usc.edu or visit our website at www.homemods.org

INTRODUCTION

1. WHAT ARE HOME MODIFICATIONS?

Home modifications are adaptations to the living environment intended to increase ease of use, safety, security, and independence. Modifications can include: 1) changes or additions to the structure (e.g., widening doorways, adding a first floor bathroom or a ramp); 2) installing special equipment (e.g., grab bars and handrails); and 3) adjusting the location of items (e.g., moving furniture). Home modifications overlap considerably with assistive devices (e.g., bath benches, walkers) which tend to be more mobile in nature and not attached to the structure of the house. In addition, home modifications are often accompanied by repairs (e.g., fixing worn-out stairs) to insure their usefulness.

There is general agreement that an accessible and supportive environment is vital to the quality of life of older adults and younger persons with disabilities. First, a supportive and accessible environment makes it easier to carry out tasks such as cooking and cleaning, thereby increasing independence, self-confidence, and self-esteem. Second, modifications such as ramps or stair lifts can allow persons to engage in major life activities and tasks more easily. Third, particular features such as handrails on the stairs, outside ramps, and grab bars in the bathroom help prevent accidents. Fourth, adequate space and access facilitates caregiving by relatives, friends, and the formal service system. Fifth, home modifications may minimize the need for costly personal care services.

2. WHY IS HOME MODIFICATION AN IMPORTANT ISSUE?

Home modification has emerged as a policy and program issue because housing units that met the needs of persons when they moved in at a younger age were not designed to meet their physical, social and service needs with age and increased frailty. It is estimated that upwards of 1 million older persons nationwide need home modifications. Without such changes, some of these older persons may have to move to more supportive environments, including nursing homes, even though they would prefer staying at home. Many others will remain in environments that have become unsafe and unsupportive. Similarly, many younger persons with disabilities need home modifications to live in independent housing settings in the community.

State Units on Aging, Area Agencies on Aging, and other organizations can foster the development of home modification through activities such as: funding programs, assessing needs, training and education, improved coordination, and advocacy with other agencies in health, housing, and long term care. Unfortunately, a number of obstacles stand in the way of securing modifications

for those who need them such as: 1) unclear policy responsibilities, 2) inadequate and medically based reimbursement programs, 3) a lack of adequate environmental assessments, 4) a reluctance by older adults themselves to change their environment, and 5) an undeveloped service delivery system. This Guide has been developed to assist individuals in understanding the nature of these impediments and creating strategies that result in effective home modification programs.

3. WHO CAN BENEFIT FROM THIS RESOURCE GUIDE?

This Guide has been developed to assist State Units on Aging, Area Agencies on Aging, and other organizations whose missions include enhancing the ability of older persons and younger persons with disabilities to remain in their homes and preventing unnecessary institutionalization. The Guide provides an annotated bibliography of useful articles, web-based resources, assessment tools, and audio-visuals. There is also a list of journals, newsletters, organizations, and institutions which cover developments in home modifications and their respective contact information.

4. WHAT IS INCLUDED IN THE HOME MODIFICATION RESOURCE GUIDE?

This Guide begins with four sections--Publications, Web-based Resources, Assessment Tools and Audio/Visuals--organized alphabetically by title and categorized to indicate the area of focus. Following the chart in each section are annotations which provide contact and ordering information. At the end of the Guide is an inventory of Journals and Newsletters, Organizations, and Institutions that can provide information and technical assistance. Contact and ordering information is included whenever available.

5. HOW DOES ONE USE THE HOME MODIFICATION RESOURCE GUIDE?

The charts in this Guide will direct readers to the most useful sources of information by category. A complete citation and brief description of the individual item is then found in the annotation section. The journals and newsletter references can be a source of continuing up-to-date information on various aspects of home modifications. The organizations listed provide services and information related to home modifications.












HOME MODIFICATION RESOURCE CATEGORIES












The resources in this Guide cover a variety of topics concerning home modifications. Listed below are categories designated to classify those topics. The categories indicate the content of the references listed in the various charts and in the annotations.












1. **GENERAL INFORMATION** - This category identifies resources that discuss the relationship between the functional capabilities of the elderly and their need for home modifications. Home modification may also be conceptually presented and analyzed in relation to other supportive housing options.
2. **ASSESSMENT** - This category includes two different types of assessment. Population or community assessments focus on ways to measure the extent of need for modification. Individual assessment includes procedures and instruments that can be used to assess the competency of an individual, problems that the environment presents, and the need for modifications.
3. **FINANCING** - Citations in this category describe public and private financing mechanisms to develop programs and pay for modifications.
4. **PRODUCT/PROGRAM** - This category lists products/programs pertaining to home modifications that are available on the market. Services relating to home modifications are also identified under this category.
5. **PROGRAM DEVELOPMENT AND IMPLEMENTATION** - Citations in this category examine how to establish and operate a home modification program. Included are programs that are currently under development.
6. **RESEARCH/EDUCATION** - This category contains materials which disseminate knowledge and research information about home modifications. These materials can help raise public awareness about the importance of home modifications and the ongoing research efforts in the field.
















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Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
AAA and NORCs. National Resource and Policy Center on Housing and Long Term Care						
Accessibility Book: Building Code Summary and Products Directory, The Julee Quarve-Peterson, Inc.						
Accessible Building Product Guide, The Salmen, J. and Quarve-Peterson, J.						
<u>Adaptable Housing</u> U.S. Department of Housing and Urban Development						
Adaptations for Independent Living by Older Frail Households. Reschovsky, J. and Newman, S.						
Adapting Housing for Older Disabled People. Steinfeld, E.						
Advancements in the Home Modification Field: A tribute to M. Powell Lawton Pynoos, J., Nishita, C. & Perelman, E.						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Aging at Home: How the Elderly Adjust Their Housing Without Moving. Struyk, R. and Katsura, H.						
Aging in the Designed Environment. Christenson, M.						
Analysis of the Effects of Ramp Slope on People with Mobility Impairments, An Sanford, J., Story, M., Jones, M.						
Assessing Safe Function At Home: The SAFER Tool. Letts, L., Marshall, L., Cawley, B.						
Assessing the Environment. Carp, F.						
Assessment of the Home Environment. Steel, K., Musliner, M., Berg, K.						
Assistive Technology for Persons with Disabilities Mann, W., and Lane, J.						















Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Bathroom Modifications for Frail Elderly Renters: Outcomes of a Community-based Program. Gitlin, L., Miller, K., Boyce, A.						
Best 25 Catalog Resources for Making Life Easier, The Schwarz, S.						
Best Practices in the Design of Toileting and Bathing Facilities for Assisted Transfers. Sanford, J.						
Blueprint for Action. Duncan, R.						
Bringing Universal Design Ideas to the Public: Interactive Exhibits in Southern California. Overton, J. and Pynoos, J.						
Building for a Lifetime Wylde, M., Baron- Robbins, A., Clark, S.						
California Centers for Independent Living and Home Modifications Cory, S. & Liebig, P.						















Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Caregivers' Perceptions of the Effectiveness of Home Modifications for Community Living Adults with Dementia. Calkins, M. and Namazi, K.						
Changes in the Use of Personal Assistance and Special Equipment from 1982 to 1989: Results from the 1982 and 1989 NLTCs. Manton, K., Corder, L., Stallard, E.						
Complete Guide to Barrier Free Housing, A Branson, G.						
Comprehensive Approach to Retrofitting Homes for a Lifetime, A. National Association of Home Builders						
Consumer's Guide to Home Adaptation, A Adaptive Environments Center						
Consumer Knowledge of Home Modifications Wylde, M.						
Cost of Accessible Housing U.S. Department of Housing and Urban Development						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Current and Emerging Issues in Housing Environments for the Elderly. Struyk, R.						
Dangerous Products, Dangerous Places: An AARP Report on Home Safety and Older Consumers Fise, M.						
Delivery of Home Modification and Repair Service, The Pynoos, J., Liebig, P., Overton, J., Calvert, E.						
Development of a Comprehensive Assessment to Enhance Delivery of Home Modifications Nationwide Sanford, J., Pynoos, J., Tejral, A. & Browne, A.						
Directory of Accessible Building Products National Association of Home Builders (NAHB)						
Disability: The Demographics of Physical Functioning and Home Environments of Older Americans. Tabbarah, M., Mihelic, A., Crimmins, E.						
Do-Able Renewable Home: Making Your Home Fit Your Needs, The Salmen, J.						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Effectiveness of Assistive Technology and Environmental Interventions in Maintaining Independence and Reducing Home Care Costs for the Frail Elderly. Mann, W., Ottenbacher, K., Fraas, L., Tomita, M., Granger, C.						
Effectiveness of Home Environmental Interventions for Individuals with Dementia and Family Caregivers. Gitlin, L.						
Elder Design- Designing and Furnishing A Home for Your Later Years Bakker, R.						
Embracing Universal Design. Christenson, M.						
Enabling Home Environments. Steinfeld, E. and Shea, S.						
Enabling Products: A Sourcebook Selvige, M., Wylde, M., Rummage, M.						














Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Enabling Products Sourcebook 2. ProMatura Group				🏠		
Environment and Its Relationship to Well-Being, Overview. Lawton, M.	🏠					🏠
Environmental Adaptations to Preserve Balance and Prevent Falls. Tideiksaar, R.	🏠	🏠				
Evaluation of Grab Bars to Meet the Needs of Elderly People, An Sanford, J. and Megrew, M.	🏠			🏠		
Evolution of Home Modification Programs in Japan, The. Makigami, K. & Pynoos, J.	🏠		🏠		🏠	
Expanding Caregiver Ability to use Environmental Solutions for Problems of Bathing and Incontinence in the Elderly with Dementia. Gitlin, L. and Corcoran, M.	🏠			🏠		🏠
Factors Affecting Caregivers' Ability to Make Environmental Modifications. Messecar, D.	🏠					🏠














Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Factors Predicting Assistive Device Use in the Home by Older People Following Rehabilitation. Gitlin, L., Scheman, R., Landsberg, L., Brugh, D.						
Fall Prevention in the Home. Tideiksaar, R.						
Falls Among Older Persons and the Role of the Home: An Analysis of Cost, Incidence, and Potential Savings from Home Modification. Kochera, A.						
<u>Falls and Fires: Safety in the Home</u> American Association of Retired Persons						
Falls and Instability in the Elderly. Rubenstein, L., Robbins, A., Schulman, B., Rosado, J., Osterweil, D., Josephson, K.						
Fear of Falling and Fall-Related Efficacy in Relationship to Functioning Among Community-Living Elders. Tinetti, M.E., et al						
Federal Antidiscrimination Laws and Frail Older Tenants Edelstein, S.						















Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Financing Home Accessibility Modifications Malizia, E., Duncan, R., Reagan, J.						
Fix It! A Report from the National Conference on Home Modifications Policy Wilner, M.						
Fixing To Stay, A National Survey on Housing and Home Modification Issues, A Bayer, A. and Harper, L.						
Frail Elders and the Suburbs. Hare, P.						
From Hospital to Home: Individual Variations in Experience with Assistive Devices Among Older Adults. Gitlin, L.						
Funding, Financing, and Other Resources for Home Modifications. Duncan, R.						
Gadget Book: Ingenious Devices for Easier Living, The La Buda, D.						














Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Guideline for the Prevention of Falls in Older Persons. American & British Geriatrics Society and American Academy of Orthopaedic Surgeons Panel on Falls Prevention	🏠				🏠	🏠
Health and Demographic Profile of Noninstitutionalized Older Americans Residing in Environments with Home Modifications, A Tabbarah, M., Silverstein, M., Seeman, T.	🏠					🏠
Helping Homes be Safe: Environmental Adaptations for People with Dementia. Gitlin, L. and Corcoran, M.		🏠				🏠
Home Adaptation for Alzheimer's Households. Silverstein, N., Hyde, J., Ohta, R.	🏠					🏠
Home Modification Capacity Building: Strategies from Programs in Action. Overton, J.	🏠					🏠
Home Modification: Improvements That Extend Independence. Pynoos, J., Cohen, E., Davis, L., Bernhardt, S.	🏠	🏠			🏠	
Home Modifications and Performance of Routine Household Activities by Individuals with Varying Levels of Mobility Impairments. Connell, B., Sanford, J., Long, R., Archea, C., Turner, C.	🏠	🏠				
















Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Home Modifications to Make Older Lives Easier Mitka, M.	🏠					🏠
Home Planning for Your Later Years Wasch, W.		🏠				🏠
Home Upkeep and Housing Quality of Older Homeowners. Reschovsky, J. and Newman, S.	🏠	🏠				
Homes that Help: Advice from Caregivers for Creating a Supportive Home Olsen, R., Ehrenkrantz, E., Hutchings, L.	🏠	🏠		🏠		🏠
House for All Children; Planning A Supportive Home Environment for Children with Disabilities, A. Olsen, R., Ehrenkrantz, E., Hutchings, L.	🏠					🏠
Housing Adaptations: Needs and Practices. Struyk, R.	🏠					
Housing America's Seniors. Joint Center for Housing Studies of Harvard University	🏠					🏠

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Housing Design and Disability: The Relationships Between Typical Design Features and Performance of Routine Activities. Sanford, J., Connell, B., Long, R						
Housing Highlights: Home Modification and Repair. National Resource Center on Supportive Housing and Home Modification						
Housing Needs of Lower-Income Homeowners, The Joint Center for Housing Studies of Harvard University						
Improving the Delivery of Home Modifications. Pynoos, J., Angelleli, J., Tabbarah, M., DeMeire, M.						
Injuries Among the Elderly in the Home Environment. Sjorgen, H. and Bjornstig, U.						
Life-Span Design of Residential Environments for an Aging Population. American Association of Retired Persons and Stein Gerontology Institute						
Living Conditions of Elderly Americans, The Newman, S.						





Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Long Term Impact of Staying Put. Leather, P. and Mackintosh, S.						
Maintaining Functional Independence in Elderly Adults: The Roles of Health Status and Financial Resources in Predicting Home Modifications and Use of Mobility Equipment Mathieson, K. M., Kronenfeld, J. J., and Keith, V. M.						
Making Homes Safer: Environmental Adaptations for People with Dementia. Gitlin, L. and Corcoran, M.						
Making Life More Livable: Simple Adaptations for Living at Home After Vision Loss American Foundation for the Blind						
Market for Community Services for Older Persons, The Hereford, R.						
Mismatches Between the Home Environment and Physical Capabilities Among Community-Living Older Persons. Gill, T., Robison, J., Williams, C., Tinetti, M.						
National Directory of Home Modification Resources, The National Resource Center on Supportive Housing and Home Modifications						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
New Tools for Better Home Modifications. Pynoos, J. & Sanford, J.						
Occupational Therapy for Independent-Living Older Adults: A Randomized Controlled Trial. Clark, F., Azen, S., Zemke, R., Jackson, J., Carlson, M., et al.						
Physical Design of the Home as a Caregiving Support: An Environment for Persons with Dementia, The Olsen, R., Hutchings, B., and Ehrenkrantz, E.						
Population-Based Study of Environmental Hazards in the Homes of Older Persons, A. Gill, T., Williams, C., Robison, J., Tinetti, M.						
Predicting Participation and Adherence to a Home Environmental Intervention Among Family Caregivers of Persons with Dementia. Gitlin, L., Corcoran, M., Winter, L., Boyce, A., Marcus, S.						
Prescribing Adaptive Devices to the Elderly: Principles for Treatment in the Home. Gitlin, L. and Levine, R.						
Preventing Falls in Elderly Persons. Tinetti, M.						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Randomized, Controlled Trial of a Home Environmental Intervention: Effect on Efficacy and Upset in Caregivers and on Daily Function of Persons with Dementia, A. Gitlin, L., Corcoran, M., Winter, L., Boyce, A., Hauck, W.						
Safety and Security of the Elderly: Implications for Smart House Design. Czaja, S.						
Safety for Older Consumers: Home Safety Checklist U.S. Consumer Product Safety Commission						
Self-Care and Assistance from Others in Coping with Functional Status Limitations Among a National Sample of Older Adults. Norbrun, J., Bernard, S., Konrad, T., Woomert, A., Defreise, G., Kalsbeek, W., Koch, G., Ory, M.						
Social and Physical Environments for the Vulnerable Aged. Soldo, B. and Longino, C.						
Staying Put: Adapting the Places Instead of the People. Lanspery, S. and Hyde, J. (Eds)						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Strategies for Home Modification and Repair. Pynoos, J.						
Study of Housing and Personal Assistance Issues for People with Disabilities Residing in Nursing Homes, A. Kruger, D.						
Systems, Change, Coalition Building and Collaboration. Gay, J.						
Team Approach for Home Modifications, A. Pynoos, J., Sanford, J., Rosenfelt, T.						
Testing Home Modification Interventions: Issues of Theory, Measurement, Design, and Implementation. Gitlin, L.						
Transforming Lives in Another Place and Time: Adapting the USC Lifestyle Redesign Program. Nelson, L.						
Universal Design Comes Home. Wilson, P.						

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Universal Design: Creative Solutions for ADA Compliance Null, R., and Cherry, K.	🏠					🏠
Universal Home - Home Modification. American Association of Retired Persons	🏠	🏠		🏠		
Universal Kitchen and Bathroom Planning: Design that Adapts to People Peterson, M.	🏠	🏠				🏠
Unlawful Discrimination - Your Rights and Remedies. Office of the Attorney General Public Inquiry Unit						🏠
Using Technology to Adapt Environments. Faletti, M.	🏠	🏠				
Validity of Older Homeowners' Housing Evaluations. Chen, A. and Newman, S.		🏠				
Value of OT in Home Safety, The Sevigny, J.	🏠					

Publication: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Who will Help with Ramps & Home Modifications. Disability Solutions Through Technology						
Why Older People Accept or Reject Assistive Technology. Gitlin, L.						

ANNOTATIONS FOR PUBLICATIONS

“AAA and NORCs.” The Supportive Housing Connection - A Technical Assistance Quarterly. June 1995. National Resource and Policy Center on Housing and Long Term Care.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/aaa.htm>

This article explains what a NORC (Naturally Occurring Retirement Community) is, the background of NORCs, the different ways to identify them by location, physical dimension, population size, demographic characteristics, and reasons for existence. The article also addresses reasons why the aging network should care about NORCs, and the challenges and opportunities that are associated with them.

Accessibility Book: Building Code Summary and Products Directory, The. Julee Quarve-Peterson, Inc. Crystal, Minnesota: Julee Quarve-Peterson, Inc., 1989.

This directory lists products and devices to enhance functional ability among individuals with disabilities. Information is included concerning the effectiveness of each product. Illustrations, price estimates, and descriptions of product features are included for the reader.

Accessible Building Product Guide, The. Salmen, John P.S. and Julee Quarve-Peterson. New York: John Wiley & Sons, Inc., 1995.

This guide provides information on available products to enhance accessibility to the home environment for older adults and individuals with physical disabilities. The guide lists over 650 products ranging from kitchen aids to automatic devices manufactured to provide assistance to individuals with functional limitations.

Adaptable Housing. U.S. Department of Housing and Urban Development. Washington D.C.: U.S. Department of Housing and Urban Development, 1987.

This publication discusses the concept of adaptable housing, defined as accessible housing that does not appear different from other housing structures, but includes features that can be modified, adjusted, or removed as determined by the needs of the occupant. The publication stresses the importance of developing adaptable housing that is universally accessible and which enhances the quality of life for the homeowner. Chapters cover the evolution of adaptable housing, accessible features, adaptations to kitchens and baths, as well as consumer information.

“Adaptations for Independent Living By Older Frail Households.” Reschovsky, James D. and Sandra J. Newman. The Gerontologist, 30:4, (1990), 543-552.

This article examines the daily operational activities from “home maintenance” adjustments made to the home in order to make it more adaptable. The data for this article was taken from the Survey of Housing Adjustments and the Annual Housing

Survey. Findings indicate that many frail elders develop strategies to deal with functional decline. It was also found that frail elders engage in home modification and adaptation to the same degree as non-frail elders.

“Adapting Housing for Older Disabled People.” Steinfeld, Edward. In Housing the Aged, Victor Regnier and Jon Pynoos (Eds). New York: Elsevier Science Publishing Co., Inc., 1987, pp.307-339.

This chapter describes a project which examined housing standards in relationship to the use and accessibility of kitchens, bathrooms, doorways, and ramps, and to reaching and grasping objects. Standards that have the most influence on barrier free design in housing for the elderly can be found in “Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People” from the American National Standards Institute (ANSI) and “Minimum Property Standards for Multi-Family Housing” issued by HUD. A laboratory testing station site was used to examine actual performance and functional ability in each disability group. The chapter ends with design directives and policy considerations.

“Advancements in the Home Modification Field: A Tribute to M. Powell Lawton.” Pynoos, J., Christy Nishita and Lena Perelman. Journal of Housing and the Elderly, 17:1/2, (2003), 105-116.

This article credits the late M. Powell Lawton for important advancements in the home modification field. Developments in home modification research, assessment approaches, and the service delivery system can be attributed to his influence. Lawton’s work has shaped the home modification field with the recognition that a supportive physical environment can enable an older adult to successfully adapt to declining functional abilities.

“Aging at Home: How the Elderly Adjust Their Housing Without Moving.” Struyk, Raymond J. and Harold Katsura. Journal of Housing for the Elderly, 4:2, (1987), 1-192.

This special volume is an exposition of Struyk’s and Katsura’s extensive study of the modifications made by older persons in order to remain in their homes. A sample of 364 households was followed over a five-year observation period, as an extension of an ongoing survey. Dwelling modifications were frequently made when household members had activity limitations. Modifications were also prompted by a loss of outside help from relatives and agencies that provided assistance, such as home delivered meals. The most common modifications were handrails, grab bars, flashing lights, and cabinet alterations. Low-income households were just as likely to make modifications as high-income households. The authors suggest that locally based modification programs are more likely to be effective than federally mandated programs.

Aging in the Designed Environment. Christenson, Margaret. Binghamton, New York: Haworth Press, 1991.

This publication applies environmental design solutions to the issue of aging in place. The author, a gerontologist/occupational therapist, provides solutions that combine geriatric rehabilitation and environmental design.

An Analysis of the Effects of Ramp Slope on People with Mobility Impairments. Sanford, Jon A., Molly Follette Story, Michael L. Jones. North Carolina State University: The Center for Universal Design, School of Design. Raleigh, North Carolina.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/ramp/>

This study evaluates the usability of the range of ramp slopes allowed under the ADA accessibility guidelines. Subjects of all ages and level of disabilities traversed these ramps of varying slopes, and data was collected on their pulse rate, energy expenditure, rate of travel, distance traveled, and location of rest stops. This paper explains in detail the process of this test, from subject recruitment, testing procedures, data collection, to evaluation of the results and discussion.

“Assessing Safe Function at Home: The SAFER Tool.” Letts, L., L. Marshall, and B. Cawley. In Home Community Health Special Interest Newsletter, 2:1, (March 1995), 1-2.

The SAFER tool was designed to provide occupational therapists (OTs) with an assessment of the client’s ability of function within their home environment. This tool was developed by the OTs at Community Occupational Therapists and Associates in Toronto, Canada. The tool is divided into segments such as living situation, mobility, kitchen fire hazards, dressing, medication, communication, eating, household fire hazards, and grooming. The SAFER tool is a useful assessment instrument for identifying and addressing risk factors within the home environment.

“Assessing the Environment.” Carp, F. In Lawton, M.P. and Teresi, J.A. (Eds.) Focus on Assessment Techniques, Annual Review of Gerontology and Geriatrics, 14:1994, (1994), 302-323. New York: Springer Publishing Company.

This chapter discusses the assessment of the home environment of older adults. Older adults spend the majority of their time in their home. The assessment of the home environment is important because the environment is more amenable to change than other factors such as health, cognitive status, or personality. Environmental assessment also deals with the effects of the environment on residential satisfaction and well being. The chapter reviews the history of assessments in specialized housing, such as: housing of the elderly, a national sample of federally assisted housing, assessments in institutional setting, the use of the therapeutic environmental screening scale (TESS), the use of the Multiphasic Environmental Assessment Procedure (MEAP), and assessment in the community.

“Assessment of the Home Environment.” Steel, K., M. Musliner, and K. Berg. In Geriatric Assessment Technology: The State of the Art, Rubenstein, L.A., Wieland, D. and Bernabei, R., 1996, pp. 135-145.

This article describes the difficulties encountered when assessing the home environment due to the lack of a comprehensive home assessment tool. The authors state that it is difficult to design a universal home assessment tool that includes the range of possibilities that exist in the home environment. The cost-effectiveness of designing and implementing a universal assessment tool is another factor that prohibits the creation of a standardized assessment tool. Currently some home health agencies use a checklist of items created by Tideiksaar as an environmental assessment tool. The high incidence of falls among the older adult population suggests the need for a standardized home assessment tool.

Assistive Technology for Persons with Disabilities. Mann, William C., and Lane, Joseph P. Bethesda, MD. American Occupational Therapy Association, 1995 (2nd Edition).

This book on assistive technology provides explanations about related disciplines and resources in the field. It includes reference information on the use of assistive technology.

“Bathroom Modifications for Frail Elderly Renters: Outcomes of a Community-based Program.” Gitlin, Laura N., K.S. Miller, and A. Boyce. Technology and Disability. 10 (1999) 141-149.

Developed as an offshoot of the Tenants Action Group (TAG), a community-based agency in the Philadelphia region, TAG ADAPT sought to assess the benefits of their adaptive modification program to provide bathroom equipment to frail elderly renters. Low income elders are more likely to report unmet modification needs and delay in obtaining these modifications due to financial need. The results of the study showed less difficulty performing bathroom ADL tasks and reduced use of personal assistance for the people who received bathroom modification equipment. The clients reported satisfaction with the program. Most clients had some difficulty with their equipment orders, so home or telephone follow-up was recommended. High risk elderly were recommended to have skilled therapy evaluation of equipment needs before ordering devices. Adequate and stable funding streams are essential to realize potential benefits of such a program.

Best 25 Catalog Resources for Making Life Easier, The. Schwarz, Shelly Peterman. Madison, Wisconsin: Shelly Peterman Schwarz, 1993.

This directory contains information on catalogs of assistive devices for home environments that promote independent lifestyles.

“Best Practices in the Design of Toileting and Bathing Facilities for Assisted Transfers.” Jon Sanford. August 1, (2001).

AVAILABLE ONLINE AT:

<http://www.access-board.gov/research&training/Toilet-Bath/report.htm>

This report uncovers the difficulties of reconciling obsolete design guidelines established in 1991 by the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and current needs of seniors concerning toilet and bathing facilities. The study also offers suggestions for revising current ADAAG standards to accommodate the needs of seniors.

Blueprint for Action, A Duncan, Richard et al. Raleigh, North Carolina: Center for Universal Design.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/blue/>

“A Blueprint for Action” helps community, state, and national organizations to develop and coordinate service delivery systems locally and nationally. This publication is an educational and organizational tool designed to increase awareness of the need for and the benefits of home modifications and to provide incentives and resources for action. “A Blueprint for Action” is intended to increase the availability and quantity of home modifications with the following goals: catalyzing leadership on the national and state levels, and promoting effective public and private collaborative actions between stakeholders on the national, state, and local levels.

“Bringing Universal Design Ideas to the Public: Interactive Exhibits in Southern California.” Overton, Julie and Pynoos, Jon. In Maximizing Human Potential, Winter (1999).

AVAILABLE ONLINE AT:

<http://www.homemods.org/library/pages/universaldesign.htm>

This paper addresses the importance of home modification for older adults in order to ensure a safe living environment that promotes independence. The University of Southern California Andrus Gerontology Center’s *Home Modification Action Project* (HMAP) organized two home modification exhibits in collaboration with the Pasadena Home Modification Action Coalition and the Santa Clarita Home Modification Action Coalition, respectively. Each exhibit was open to the public for free for two months and allowed consumers to have first hand experience with some home modification devices. Not only were these exhibits successful in bringing closer together members from the respective coalitions, they also helped to increase awareness of home modifications in the local communities.

Building for a Lifetime. Wylde, Margaret, Adrian Baron-Robbins and Sam Clark. Newtown, Connecticut: The Taunton Press, 1994.

This book provides information concerning architectural design, exteriors, interiors, and home remodeling to enhance safety and accessibility. Chapters provide construction information on creating homes that have elements of universal design. Information is provided concerning the latest research on existing housing units in terms of size, design, and range of motion to improve both the safety and comfort of the residence. Sixteen pages are devoted to photos of accessible housing units, floor plans, interiors, exteriors, and special applications. Data for the book was obtained through research conducted at the Institute of Technology Development.

California Centers for Independent Living and Home Modifications. Cory, Stephanie & Phoebe Liebig. Los Angeles, California: The National Resource Center on Supportive Housing and Home Modification, 2003.

This booklet presents the results of a survey of Centers for Independent Living (CILs) and their home modification (HM) programs, advocacy and services. Some of the findings were that: CILs main offices tend to be more active in terms of HM than branch offices; and, neither urban CILs nor rural CILs were more likely to be identified as exemplary in HM activities.

“Caregivers’ Perceptions of the Effectiveness of Home Modifications for Community Living Adults with Dementia.” Calkins, Margaret P. and Kevan H. Namazi. Journal of Alzheimer’s Care and Related Disorders and Research, 6:1, (Jan-Feb 1991), 25-29.

This article discusses the importance of home modifications for elders with dementia related disorders. Caregivers of elders suffering from dementia related disorders were surveyed concerning the modifications made to the housing unit and the effectiveness of such modifications. Modifications were commonly made to manage wandering, incontinence, safety, and independence and to reduce confusion in the home setting. The article concludes that modifications to the housing unit may contribute to reductions in caregiver stress and strain.

“Changes in the Use of Personal Assistance and Special Equipment from 1982 to 1989: Results from the 1982 and 1989 NLTCs.” Manton, K.G., Corder, L., Stallard, E. The Gerontologist, 33:2, (1993), 168-176.

By examining the data from the 1982, 1984, and 1989 National Long-Term Care Surveys, this study found that the use of equipment by persons with light physical impairment, in combination with personal assistance (for the severely disabled), increased over time. Reliance on the sole use of equipment was more frequently found among women and individuals with either only IADL or one to two ADL limitations. In contrast, the use of personal assistance to address the needs of impaired individuals declined. In brief, the authors suggest that equipment is helpful in supplementing active personal assistance and could reduce long term care costs.

Complete Guide to Barrier Free Housing, A Branson, Gary D. Crozet, Virginia: Betterway Publications, Inc., 1991.

This book provides information on modifying existing housing units to meet the needs of disabled or frail individuals. Chapters provide practical information on improving the bathroom, kitchen, entries, stairs, and halls. Included within each chapter are illustrated examples of products meant to assist disabled individuals who wish to remain in their own homes.

Comprehensive Approach to Retrofitting Homes for a Lifetime, A. National Association of Home Builders (NAHB). Upper Marlboro, Maryland: NAHB Resource Center, 1991.

AVAILABLE FROM: National Association of Home Builders Research Center, 400 Prince George's Boulevard, Upper Marlboro, MD 20772-8731, (301) 249-4000 (Price: \$10.00 plus \$4.00 S&H)

This book provides information for remodelers on renovating the home to provide greater accessibility and functionality in the home for older adults and people with disabilities. The book includes sections devoted to assessing home owner need, as well as ways to finance renovations.

Consumer's Guide to Home Adaptation, A. Adaptive Environments Center. Boston, Massachusetts: Adaptive Environments Center, January, 1996.

AVAILABLE FROM: Adaptive Environments, 374 Congress Street, Suite #301, Boston, MA 02240, (617) 695-1225 (Price: \$12.00)

This workbook, produced for the Massachusetts Housing Partnership, is designed to serve as an assessment and evaluation tool, planning and construction guide, and resource handbook for adapting the environment to physical limitations. Information relating to financing, service programs, and products is also included.

Consumer Knowledge of Home Modifications. Wylde, Margaret. Oxford, Mississippi: ProMatura Group, 1996.

**AVAILABLE ONLINE AT:
<http://www.homemods.org/library/pages/knowledge.html>**

This paper, which was part of the Second National Working Conference on Home Modifications, states that it is increasingly important to inform the public of the benefits and outcomes of home modifications. The author believes that the media and consumer perception of home modifications have great impact on the availability of home modifications, and suggests ways to make these home modifications part of the mainstream consumer marketplace.

Cost of Accessible Housing. U.S. Department of Housing and Urban Development. Washington, D.C.: U.S. Department of Housing and Urban Development, 1993.

This HUD publication examines the estimated cost of developing accessible housing for older adults and individuals with disabilities. The study examines eight housing sites and over 80 variations of housing unit typologies. Chapters are devoted to cost estimates, buildings, accessibility requirements, and project descriptions. The Fair Housing Accessibility Guidelines are included for reference.

“Current and Emerging Issues in Housing Environments for the Elderly.” Struyk, Raymond, J. In America’s Aging: The Social and Built Environment in An Older Society. Institute of Medicine and National Research Council. Washington, D.C.: National Academy Press, 1988, pp.134-168.

Current federal housing policies for the elderly are summarized and a policy framework is presented that includes dwelling modifications.

Dangerous Products, Dangerous Places: An AARP Report on Home Safety and Older Consumers. Fise, Mary Ellen R. Washington, D.C.: AARP, 1988.

More than half of the home injury deaths in this country occur in the over 65 age group. This report examines the most hazardous products and activities in relationship to death rates associated with injuries.

“Delivery of Home Modification and Repair Services.” Pynoos, Jon, Phoebe Liebig, Julie Overton, and Emily Calvert In Staying Put: Adapting the Places Instead of the People, Lanspery, S. and Hyde, J. (Eds.). Amityville, New York: Baywood Publishers, 1996, pp.173-192.

This chapter presents the results of the first national survey on home modifications. It discusses the history of home modifications, including housing policy, funding sources, methods of service delivery, and assessments. The authors acknowledge the need for future research on home modifications.

“Development of a comprehensive assessment to enhance delivery of home modifications nationwide.” Sanford, J., Jon Pynoos, A. Tejral and Allan Browne. Journal of Physical Therapy and Occupational Therapy in Geriatrics, 20: 2, (2002), 43-55.

This article focuses on home modifications as an important strategy to manage chronic health conditions, increase independence, and ensure safety of frail older adults. It goes on to describe an assessment protocol that would provide sufficient information about an individual, his/her occupational performance and environment so that a professional can prescribe appropriate modifications without having to make an on-site assessment.

Directory of Accessible Building Products. National Association of Home Builders (NAHB). Upper Marlboro, Maryland: NAHB Resource Center, 2003.

AVAILABLE FROM: National Association of Home Builders Research Center, 400 Prince George's Boulevard, Upper Marlboro, MD 20772-8731, (301) 249-4000 (Price: \$5.00).

AVAILABLE ONLINE AT:

<http://www.toolbase.org/tertiaryT.asp?TrackID=&CategoryID=308&DocumentID=964>

This directory contains information on over 200 products available to individuals with disabilities and functional limitations. The products listed are designed to enhance functional ability and accessibility in housing units.

“Disability: The Demographics of Physical Functioning and Home Environments of Older Americans. Tabbarah, M., Mihelic, A., and Crimmins, E. Journal of Architectural and Planning Research, 18:3, (2001), 183-193.

This study describes the prevalence of disability and the characteristics of elderly living environments. Researchers use data collected from The Longitudinal Study of Aging (LSOA) and the Survey of Asset and Health Dynamics of the Oldest Old (AHEAD) in presenting their demographics.

Do-Able Renewable Home: Making Your Home Fit Your Needs. Salmen, John P.S. Washington, D.C.: AARP, 1985.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/drhome/>

AVAILABLE FROM: AARP, 601 E Street, NW Washington, D.C. 20049, (202) 434-6030 (Price: \$22.50 for 50 qty. pack, nonmembers; 10 copies or less are free for members)

This booklet contains a variety of suggestions for home modification, based on the premise that continued physical activity contributes to personal well-being in later life. State, local, and private organizations that provide financial assistance or offer repairs are identified.

“Effectiveness of Assistive Technology and Environmental Interventions in Maintaining Independence and Reducing Home Care Costs for the Frail Elderly: A Randomized Controlled Trial.” Mann, William C., Ottenbacher; Kenneth J.; Fraas, Linda; Tomita, Machiko; and Granger, Carl V. Archives of Family Medicine, Vol. 8, May/June, 1999.

This was a randomized controlled trial of a total of 104 home-based frail elderly people living in Western New York, each assigned to one of two groups (52 treatment, 52 control). The potential value for environmental interventions (EI) and assistive technology (AT) devices was evaluated for effectiveness in reducing decline

of function and for reduction of financial expenditures to maintain function in the elderly. EIs are described as alterations in the person's immediate environment, such as the addition of ramps, lowering of cabinets, and removal of throw rugs. ATs are devices such as canes, walkers, and bath benches. Though both the treatment group and the control group declined significantly in function over the 18 months of the study, the decline was greatest for the control group which had the least number of devices and modifications. The equipment cost was greatest for the treatment group, but the overall cost was less than the costs of medical care and institutional admissions of the control group.

Effectiveness of Home Environmental Interventions for Individuals with Dementia and Family Caregivers.” Gitlin, Laura. Home Health Care Consultant, 8:9, (2001), 22-26.

AVAILABLE ONLINE AT:

<http://www.mmhc.com/engine.pl?station=mmhc&template=jhcmfull.html&id=270>

This article examines the possible benefits of environmental interventions in enhancing the lives of individuals with dementia and their caregivers. In addition, strategies for implementing these interventions are provided that are specific to this population.

Elder Design - Designing and Furnishing A Home For Your Later Years. Bakker, Rosemary (1997).

ORDER ONLINE AT: <http://elderdesign.homestead.com/elderdesign.html>

A room-by-room guide to products, design concepts, and technologies that will make your home into a safe, accessible environment. This comprehensive, easy-to-follow guide, also offers simple solutions, practical, and inexpensive ideas for turning the home into a safe, accessible haven.

“Embracing Universal Design.” Christenson, Margaret A. OT Practice, (November 8, 1999), 12 – 25.

This article defines and explores applications of the concept of Universal Design as defined in 1993 by Ron Mace. It differentiates this concept from other specialized designs such as: *transgenerational* design which focuses on accommodating older people, *barrier-free* design which consciously eliminates barriers to function, and *assistive technology* which are products that enhance the functional capabilities of persons with disabilities. In contrast, *universal design* incorporates all these concepts into the primary design. The article suggests settings for use of universal design, product development, and the future of occupational therapy in the development and implementation of universal design.

“Enabling Home Environments.” Steinfeld, Edward and Scott Shea. Technology and Disability, 2:4, (1993), 69-79.

This article discusses the types of barriers found in the homes of elderly individuals. Data was obtained through a survey conducted by the University of Buffalo’s Rehabilitation Engineering Research Center on Aging. The sample was divided between individual homeowners and renters to monitor the differences in needs. Four categories were measured: 1) visual impairment, 2) dementia, 3) nonambulatory, and 4) semiambulatory. It was discovered that barriers were extremely underestimated when elders were asked to self-report on the condition of the housing unit. The frequency of reported barriers was not found to be significantly different between homeowners and renters.

Enabling Products: A Sourcebook. Selvidge, Marjorie, Margaret A. Wylde, and Mark Rummage. Oxford, Mississippi: Institute of Technology Development, 1993.

This directory contains 120 pages of products designed to assist older adults and people with disabilities to adapt their homes to ensure safety, comfort, and security. The directory includes information on product design, adaptability, and planning. Description of products for entry ways, bathrooms, kitchens, and living areas are provided as well as information about manufacturers of the products.

Enabling Products Sourcebook 2. ProMatura Group, 1995.

AVAILABLE ONLINE AT:

<http://www.homemods.org/library/pages/enabling.html>

This sourcebook addresses the problem that home modification products are being developed with little regard for the varying demand of users with different capabilities. Products and homes designed without regard for variables of the human condition impede the user. The sourcebook is designed to assist professionals in selecting products for environments by identifying those that are easier to use by larger numbers of people for longer periods of time. Professionals are provided with objectives and useful criteria in the selection of products.

“Environment and its Relationship to Well-Being, Overview.” Lawton, M. Powell Pride Institute Journal of Long Term Home Health Care, 4:2, (1985), 5-11.

The author discusses housing deficiencies and needs of the impaired and frail elderly. The criteria for housing quality are based on the user’s needs and the characteristics of the environment. The author suggests the need to find an equilibrium between the level of functional competence of the older person and the ability to negotiate the demands of the environment.

“Environmental Adaptations to Preserve Balance and Prevent Falls.” Tideiksaar, Rein. Topics In Geriatric Rehabilitation, 5:2, (1990), 78-84.

This article discusses adaptations which can be made to the housing unit to lessen the likelihood of falls. The article covers areas in the house such as bathrooms, kitchens, bedrooms, and stairways where falls are most likely to occur and provides suggestions on adapting these environments to provide safe and comfortable surroundings for the older person. The article contends that older people are able to reduce risks of falling with the help of adaptive devices. It is suggested that the key to identifying barriers and determining appropriate adaptations is observation of the older individual performing activities and how s/he negotiates various areas of the house.

“Evaluation of Grab Bars to Meet the Needs of Elderly People.” Sanford, Jon A. and Megrew, M.B. Assisted Living Technology, 7:1, (1995), pp.36-47.

Results of a study indicate that European designed Linido grab bars that do not meet ADA accessibility guidelines provide more assistance for older people in getting on and off a toilet than grab bars that meet the guidelines.

“Evolution of home modification programs in Japan, The.” Makigami, Kuniko and Jon Pynoos. Ageing International, 27:3, (2002), 95-112.

This article analyzes the evolution of home modification support programs for the community-dwelling frail elderly in Japan from an historical perspective. Among other things, the authors present a contextual analysis for the inclusion of home modification programs within the newly implemented National Long Term Care Insurance System.

“Expanding Caregiver Ability to use Environmental Solutions for Problems of Bathing and Incontinence in the Elderly with Dementia.” Gitlin, Laura N. and Corcoran, Mary. Technology and Disability, 2:1, (1993), 12-21.

This article describes caregiver use of the home environment to manage problems associated with bathing and incontinence for spouses with dementia. Findings from a pilot study indicate that introducing environmental strategies that assist caregiving helps to control dementia behavioral problems.

“Factors Affecting Caregivers’ Ability to Make Environmental Modifications.” Messecar, Deborah. Journal of Gerontological Nursing, December (2000), 32-42.

This article outlines various factors that impact the implementation of environmental modifications by caregivers. Areas of emphasis include: caregiver characteristics, elderly individual/caregiver relationships, elderly individual characteristics, attributes of modifications, and caregiver resources. Suggestions on strengthening the caregiver’s ability to use environmental modifications are also offered.

“Factors Predicting Assistive Device Use in the Home by Older People Following Rehabilitation.” Gitlin, Laura N., Schemon, Ruth L., Landsberg, Lisa, and Burgh, Desiree. Journal of Aging and Health. 1996.

This article describes the use of assistive devices in the home by older adults after being discharged from a rehabilitation unit. It examines predictors of home use and describes the characteristics of typical users of assistive devices.

“Fall Prevention in the Home.” Tideiksaar, Rein. Topics in Geriatric Rehabilitation. 3:1, (1987), 57-64.

This article describes a program developed by the Falls and Immobility Clinic at the Mount Sinai Medical Center. It includes a home assessment checklist for all hazards, ground surfaces, lighting, stairs, bathrooms, beds, chairs, and shelves. It suggests that, in determining which factors in the home require modification, an environmental assessment should be made in conjunction with an observed functional assessment.

“Falls Among Older Persons and the Role of the Home: An Analysis of Cost, Incidence, and Potential Savings from Home Modification.” Kochera, Andrew. AARP Public Policy Institute, March (2002).

AVAILABLE ONLINE AT: http://www.research.aarp.org/il/inb49_falls.html

This article highlights the incidence and cost of fall injuries, the causes of falls, and the role of home modifications in fall prevention efforts. In addition, the article outlines a sensitivity analysis by the Lewin Group which focuses on home modifications cost and effectiveness on falls reduction.

Falls and Fires: Safety in the Home. American Association of Retired Persons, Washington, D.C.: American Association of Retired Persons, 1986.

AVAILABLE FROM: American Association of Retired Persons, 601 E Street, NW, Washington, D.C. 20049, (202) 434-6030 (Price: \$26.50 for tape kit; \$20.00 for video kit; 10 copies or less of the resource book are free for members)

Produced in cooperation with the National Safety Council, this program guide contains an outline for planning and conducting the “Safety in the Home” program. It is accompanied by a tape cassette narration for the slide presentation, 35mm slides, and a copy of the resource book.

“Falls and Instability in the Elderly.” Rubenstein, Lawrence Z., Alan S. Robbins, Barbara L. Schulman, Juan Rosado, Dan Osterweil, and Karen R. Josephson. Journal of the American Geriatrics Society, 36:3, (1988), 266-278.

This article discusses the epidemiology and common etiologies regarding falls in the elderly. It concludes that a higher susceptibility to injury and a high prevalence of

clinical diseases, along with age-related declines among people 65 and over, contribute to a relatively high incidence of falls. The article includes an extensive bibliography on falls.

“Fear of Falling and Fall-Related Efficacy in Relationship to Functioning Among Community-Living Elders. “ Tinnetti, M.E., et al. Journal of Gerontology, 49:3, (1994), M140-M147.

This article examines the relationship between fear of falling among subjects aged 72 years or older and their physical and social functioning within their home environment. Measures of performance during an in-home assessment indicate a strong association between self-efficacy and functional ability.

Federal Anti-discrimination Laws and Frail Older Tenants. Edelstein, Stephanie. Los Angeles, California: National Resource Center on Supportive Housing and Home Modifications, 1994.

AVAILABLE FROM: The National Resource Center on Supportive Housing and Home Modification, University of Southern California, Los Angeles, California 90089-0191. (213) 740-1364, email: homemods@usc.edu

This 28-page report discusses the laws that protect persons with disabilities, including frail older renters, against discrimination. The report provides an overview of federal rental housing programs for older persons.

Financing Home Accessibility Modifications. Malizia, Emil, Richard Duncan, and Jan Reagan. Raleigh, North Carolina: Center for Accessible Housing, 1993.

AVAILABLE FROM: The Center for Universal Design, NCSU, School of Design, Box 8613, Raleigh, NC 27695-8613. (800) 220-8770.

This monograph identifies potential sources of financial assistance for renters and homeowners. It also offers guidance and direction for locating assistance at the state and local level. A resource list of organizations and publications is also included.

Fit It! A Report from the National Conference on Home Modifications Policy. Wilner, M.A., North Carolina: Center for Accessible Housing, April, 1994.

AVAILABLE FROM: The Center for Universal Design, NCSU, School of Design, Box 8613, Raleigh, North Carolina 27695-8613. (800) 220-8770.

This paper is a summary of the first National Conference on Home Modifications Policy. The conference dealt with improving the service delivery of home modifications, the need for increased information dissemination about home modifications, and the need for additional financing and funding sources.

Fixing To Stay, National Survey on Housing and Home Modification Issues, A. Bayer, Ada-Helen, Leon Harper, Mathew Greenwald and Associates. Washington, D.C. (2000)

AVAILABLE ONLINE AT: http://research.aarp.org/il/home_mod_1.html

FULL REPORT AVAILABLE FROM: AARP Independent Living Program, 601 E Street, N.W., Washington, DC 20049, 202-434-3980.

This report presents results from a nationwide survey of Americans age 45 and over compiled in May 2000. As the fifth in a series of the AARP "Understanding Senior Housing" Studies, it examines the current and future housing situation, with an emphasis on home modifications that enable people to live independently. The report includes information on current housing, plans, home modifications, housing-related financial issues, and minority differences from the majority group on all aspects of home modifications.

"Frail Elders and the Suburbs." Hare, Patrick H. Generations, 16:2, (Spring, 1992), 35-39.

This article examines the living arrangements of suburban elders. Most housing units in suburban settings were not built with the idea of homeowners aging in place. Many such units were constructed with stairs, placement of fixtures in inaccessible areas, and little consideration of the needs of older homeowners. The article examines the needs of elders for home repair, the effect of disabilities, and the potential of the remodeling industry to enhance the quality of life for older individuals.

"From Hospital to Home: Individual Variations in Experience with Assistive Devices Among Older Adults." Gitlin, Laura N. In Designing and Using Assistive Technology: The Human Perspective. David B. Gray, Louis Quatrano, and Morton L. Lieberman. (Eds). Baltimore: Paul H. Brooks Publishing Co., Inc. 1998. Pp. 117-135.

This chapter describes the challenge to older first-time assistive device users of generalizing their assistive device training from rehabilitation therapy in the acute hospital, to use of the devices in their home. Three case studies were selected to illustrate the fit between hospital-prescribed devices and actual need in the home setting. Charts are supplied to illustrate the physical, psychological, and social factors that affect continued and correct use of the devices. The subsequent effects of being at home and using the devices can lead to new expectations and sometimes unexpected fatigue or depression. It is suggested that follow-up in-home occupational therapy services be offered to check the fit of devices to the home environment, make adjustments, and teach safe use of the devices.

“Funding, Financing, and Other Resources for Home Modifications.” Duncan, Richard. North Carolina State University: Center for Universal Design, School of Design. In **A Blueprint for Action: The Second National Working Conference on Home Modification Policy April 22-23, 1996.** Washington, DC.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/funding.html>
The full version of this paper can be found in the January / February 1998 issue of **Technology and Disability.**

This article discusses the issue of a lack of awareness about existing funding and financing resources, which is incompatible with the growing understanding of the need for and the benefits of home modifications. This paper reviews funding, financing and other resources for home modifications, outlines the current constraints and future limitations to these resources, and suggests actions to increase the availability of home modifications.

Gadget Book: Ingenious Devices for Easier Living, The. La Buda, Dennis R (Ed.). American Association of Retired Persons: Washington, D.C., 1985.

This resource book lists over 325 “low-technology” products designed to make everyday tasks easier. It is divided into seven sections which focus on the following areas: personal care, home environment, home maintenance, communications, mobility, health care, and leisure and recreation. A description of each item is given, along with the cost and a code number which identifies the manufacturer or distributor of the item.

“Guideline for the Prevention of Falls in Older Persons.” American Geriatrics Society, British Geriatrics Society, and American Academy of Orthopaedic Surgeons Panel on Falls Prevention. **Journal of the American Geriatrics Society, 49:5, (2001), 664-672.**

This article explores risk factors for falls in elderly individuals, guidelines for falls evaluations, and preventative interventions. Researchers also comment on the effectiveness of exercise, environmental modifications, and assistive devices in preventing falls.

“Health and Demographic Profile of Noninstitutionalized Older Americans Residing in Environments with Home Modifications, A.” Tabbarah, M., Silverstein, M., and Seeman, T. **Journal of Aging and Health, 12:2, May, (2000), 204-228.**

Tabbarah, et al. study the prevalence of home modifications in residences of Americans over 70 years of age using data from the Survey of Asset and Health Dynamics of the Oldest Old (AHEAD). Topics emphasized include: sociodemographic factors, presence of health conditions, and physical limitations.

“Helping Homes be Safe: Environmental Adaptations for People with Dementia.” Gitlin, Laura N. and Corcoran, Mary. Alzheimer Care Quarterly 2000, 1(1): 45-54.

This article raises various safety concerns for people with dementia, either those who are living alone or with family members. It includes a safety checklist that evaluates potential safety hazards. It also offers a convenient list of potential modifications to enhance home safety and guiding principles to implement those environmental changes.

“Home Adaptation for Alzheimer’s Households.” Silverstein, Nina M., Joan Hyde, and Russell Ohta. Technology and Disability, 2:4, (1993), 58-68.

This article discusses the factors related to the implementation of home modifications for persons living with Alzheimer’s and related dementia disorders. Findings indicate that most recommendations from professionals on home adaptations focus on falling and wandering, with less emphasis placed upon activities of daily living. The article includes suggestions on how to improve implementation of recommended modifications.

“Home Modification Capacity Building: Strategies from Programs in Action.” Overton, Julie. In Maximizing Human Potential, Winter (1998), 3-5.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/capacity.htm>

This paper focuses on the importance of improving the service delivery of home modifications to people with disabilities, and the need to increase the coordination between various sectors involved in home modifications, such as housing, aging, medicine, and disability. Five programs are reviewed in this paper which address the importance of local coalitions, commitment from the local Area Agency on Aging, problems encountered by emerging non-profit organizations, remodelers perspective on home modifications, and the participation from for-profit business to deliver home modifications.

“Home Modification: Improvements That Extend Independence.” Pynoos, Jon, Evelyn Cohen, Linda Davis, and Sharmalee Bernhardt. In Housing the Aged, Victor Regnier and Jon Pynoos (Eds). New York, New York: Elsevier Science Publishing Co., Inc., 1987, pp. 277-303.

This chapter emphasizes the importance of the environment in maintaining the elderly person’s independent functioning in existing housing. It describes a pilot project that identified the most common problems, possible modifications that older people could make on their own initiative, as well as unmet needs. The chapter includes an array of design directives and policy considerations.

“Home Modifications and Performance of Routine Household Activities by Individuals with Varying Levels of Mobility Impairments.” Connell, Bettye Rose, Jon A. Sanford, Richard G. Long, Constance K. Archea, and Carol S. Turner. Technology and Disability, 2(4), (1993), 9-18.

This article discusses how the absence of home modification devices affects the older person’s ability to perform activities and tasks. Data for this article was gathered through a survey mailed to members of the Design Advisory Network. Results indicate that individuals using walking aids had less difficulty than those individuals confined to wheelchairs. The most difficult areas cited were overhead cabinets and getting into and out of the bath. The article concludes that while additional research in the area of home modification is still needed, overall home modifications do have an impact in assisting individuals in the performance of household tasks and activities.

“Home Modifications to Make Older Lives Easier.” Mitka, Mike. Journal of the American Medical Association, 286:14, (2001), 1699-1700.

This article discusses how design changes and home modifications can enhance home safety. The article also examines the importance of physical assessments to help reduce the risk of falls and accidents in the home.

Home Planning for Your Later Years. Wasch, W.K. Middletown: Beverly Cramo Publishers, 1996.

This book provides a step-by-step home assessment and planning guide for individuals who are interested in adapting their home environment. The book includes information on evaluating various housing options and financial resources, modifying the home, constructing a new accessible home, or choosing a retirement community. There is also a personal preference and an abilities assessment tool.

Home Upkeep and Housing Quality of Older Homeowners Reschovsky, James D. and Sandra J. Newman. Journals of Gerontology, 46:5, (Sept. 1991), S288-S297.

This article examines home maintenance among older adults and examines the hypothesis that as a person ages the quality of home upkeep declines. The article presents factors associated with lack of home maintenance such as income, location, household composition, and health. Data for the article came from the Survey of Housing Adjustments which was administered to 1,070 households. The article concludes that while older adults perform fewer upkeep jobs, these jobs tend to be in areas of repair or replacement. Therefore, elders tend to cut back on the cosmetic aspects of the household.

Homes That Help: Advice From Caregivers for Creating a Supportive Home. Olsen, Richard V., Ezra Ehrenkrantz and Barbara Hutchings. Newark, New Jersey: New Jersey Institute of Technology, 1993.

This manual provides information gathered from caregivers of persons living with Alzheimer's and related dementia disorders on ways to enhance and adapt the home environment. Chapters are devoted to identifying things within the home that could be upsetting to the individual with dementia, dealing with agitation on the part of the individual, removing items from the environment that might cause harm, and adapting the environment to better meet the needs of both the individual with dementia as well as the caregiver. The manual includes a home safety checklist as well as a list of companies and resources for information on modifying the home environment.

House for All Children, A: Planning a Supportive Home Environment for Children with Disabilities, A. Olsen, Richard V., Hutchings, Lynn B., Ehrenkrantz, Ezra. Newark, New Jersey: Center for Architecture and Building Science Research, New Jersey Institute of Technology, 2000.

This book promotes the importance of making homes accessible for children with disabilities, as many parents who are raising disabled children are unprepared for the impact of inaccessible homes after the children mature. The book includes many useful chapters on accessibility in and around the home, ideal locations, coping strategies, and various concerns for the children.

Housing Adaptations: Need and Practices. Struyk, Raymond J. In Housing the Aged: Design Directives and Policy Considerations, Victor Regnier and Jon Pynoos (Eds). New York: Elsevier Science Publishing Co., Inc., 1987, 259-275.

This chapter focuses on the role of policies that assist older people to remain in their communities rather than move into institutions. The major findings are that: homeowners are more likely to make modifications than renters; income does not determine the likelihood of the presence of special features in the housing unit; and, severity of mobility and health problems are major determinants of installing special features in the housing unit. It suggests that 865,000 to 1 million older persons nationwide have an unmet need for supportive features in their homes.

Housing America's Seniors. Joint Center for Housing Studies of Harvard University. Cambridge, Boston, 2000.

AVAILABLE ONLINE AT:

http://www.jchs.harvard.edu/publications/seniors/housing_americas_seniors.pdf

This report focuses on the housing needs of the elderly population. Most seniors wish to age in place but have to face the consequences of aging, and thus are restricted in their housing choices. The report examines the housing needs of America's senior population, and urges the housing industry and public policy makers to respond with home modifications, supportive services, and housing alternatives. It also projects the demographic and economic profiles of the next generation of seniors and examines their likely housing choices, labor force participation, and lifestyles.

“Housing Design and Disability: The Relationships Between Typical Design Features and Performance of Routine Activities.” Sanford, Jon A., Connell, B.R., and Long, R.G. Proceedings of Twenty-Second Annual Environmental Design Research Association Conference, Oaxtepec, Mexico, March 12-15, 1991.

Findings suggest that people are responsive to different types of home modifications depending on the disability. The functionality of typical design features can not be generalized to all individuals with disabilities.

Housing Highlights: Home Modification and Repair. National Resource Center on Supportive Housing and Home Modification.

AVAILABLE ONLINE AT: <http://www.homemods.org/pages/homemods.htm>

This fact sheet addresses various aspects of home modifications and repair. The fact sheet defines home modification and describes how they can promote independence. A list of organizations that offer financial assistance, tips on obtaining help to start home modifications, and publications available that pertain to home modification and repair are provided.

Housing Needs of Lower-Income Homeowners, The. Joint Center for Housing Studies of Harvard University. August, 1998.

This comprehensive report highlights the serious housing problems faced by lower-income homeowners. Many of them cannot afford necessary home repairs in addition to mortgages and taxes. This report contains data and graphs showing the housing needs of minority lower-income homeowners, people with varying degrees of disabilities, and families with elderly or children. It also focuses on the limited government assistance and urges more response from housing and service providers.

“Improving the Delivery of Home Modifications.” Pynoos, Jon, Joe Angelleli, Melissa Tabbarah and Marian DeMeire. In Technology and Disability, 8, 1998, pp.3-14.

This article suggests that the growing number of older adults and younger persons with disabilities who would benefit from home modifications have not yet been matched by a delivery system capable of responding to their needs. Instead, the delivery system in question is a patchwork of fragmented and uncoordinated services with significant gaps in types of services available and geographic coverage. This article discusses the incidence and need for home modifications, what is known about service delivery, barriers to developing an effective system, promising recent developments, and recommendations for next steps.

Injuries Among the Elderly in the Home Environment. Sjorgen, Harmeet and Ulf Bjornstig. Journal of Aging and Health, 3:1, (1991), 107-125.

This article examines the injuries suffered by elders while in the home environment. Data was generated from hospital injuries reports collected over a one-year period.

The majority of falls occurred indoors and the frequency of such falls increased with the age of the individual. The kitchen, bathroom, and driveway areas were specific places in which most falls occurred. It was noted that the primary cause of falls was slipping. Suggestions are provided on how to identify environmental conditions that may result in household injuries for the older adult.

Life-Span Design of Residential Environments for an Aging Population. American Association of Retired Persons and Stein Gerontology Institute. Washington, D.C.: American Association of Retired Persons, 1993.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/life-span/>

This book focuses on the importance of life-span design, which enables independent living by reducing barriers to mobility, and the emerging problems faced by policymakers, and planners due to extended longevity. Challenges such as healthcare, retirement income, and housing are targeted by life-span design. The focus is not on a person's disabilities as obstacles to remaining in the home, but rather the disabling features of the home environment that require modification. This book is divided into categories on various aspects of life-span design, high-tech application, low-tech application, and effects on senior housing.

Living Conditions of Elderly Americans, The. Newman, Sandra. The Gerontologist, 43:1, (February 2003), 99-109.

This article profiles the housing settings of frail elderly individuals, whether their homes are facilitating or impeding their ability to live in the community, and the change in disability and housing status before and after passage of the 1990 Americans with Disabilities Act.

Long Term Impact of Staying Put. Leather, Philip and Sheila Mackintosh. Aging and Society, 13:2, (June 1993), 193-211.

This article examines the impact of "Staying Put" projects upon older homeowners. Such projects provide assistance to older homeowners in the areas of repairs, modifications, improvements of the living space, and adaptations of the housing unit. Data for this article was collected through interviews of past Staying Put clients. Researchers also examine current housing situations and levels of care needs. The article concludes that the success of Staying Put projects is determined by local circumstances, individual objectives, and the availability of resources.

“Maintaining Functional Independence in Elderly Adults: The Roles of Health Status and Financial Resources in Predicting Home Modifications and Use of Mobility Equipment.” Mathieson, Kathleen M., Kronenfeld, Jennie J., and Verna M. Keith. The Gerontologist, 42:1, (February 2002), 24-31.

This study examined whether health status and financial resources were important predictors of two types of functional adaptations among elderly adults: home modifications such as putting nonslip tape on rugs or installing more telephones and use of equipment for mobility or activities of daily living (ADLs) such as canes or walkers.

“Making Homes Safer: Environmental Adaptations for People with Dementia.” Gitlin, L. & Corcoran, M. Alzheimer’s Care Quarterly, Winter (2000), 50-58.

This article discusses the contribution of home modifications towards creating a safer home environment for individuals with dementia. Gitlin and Corcoran discuss potential environmental hazards, unsafe behaviors, and principles for modifying the home.

Making Life More Livable: Simple Adaptations for Living at Home. Ed. Duffy, M. American Foundation for the Blind. (2002), 132 pp. www.afb.org/store

This easy-to-use resource shows how people who are visually impaired can continue living independent, productive lives at home on their own. Useful general guidelines and room-by-room specifics provide simple and effective solutions for making homes accessible and everyday activities doable for individuals with visual impairments.

“Market for Community Services for Older Persons, The.” Hereford, Russell W. In Pride Institute Journal of Long Term Home Health Care, 8:1, (1989), 44-51.

This article analyzes a Visiting Nurse Association-based service demonstration program funded by The Robert Wood Johnson Foundation and suggests there is an untapped market for home repair and maintenance services.

“Mismatches Between the Home Environment and Physical Capabilities Among Community-Living Older Persons.” Gill, Thomas M., J.T. Robison, C.S. Williams, and M.E. Tinetti. Journal of the American Geriatrics Society, 47, (1999), 88-92.

This cross-sectional study involves 1088 people aged 72 years and older who had an environmental assessment of their homes in New Haven, Connecticut. The association of environmental hazards in the homes of older persons with their degree of frailty was studied. Potential hazards for an elder with deficits in transfers, balance, or gait include the absence of grab bars in the tub/shower, loose scatter rugs, or curling carpet edges. These hazards were found to be less prevalent in age-restricted housing than in the general community, and the results were adjusted for housing type. The primary finding was that environmental hazards are no less common in the home of an elder with a specific physical deficit than in the home of an elder without

such a deficit. Further study is proposed into the epidemiologic link between environmental hazards and physical deficits.

National Directory of Home Modification Resources, The. National Resource Center on Supportive Housing and Home Modification (current).

AVAILABLE ONLINE AT: <http://www.homemods.org/linked-frameset.htm>

Annotated directory of private and public home modification/repair programs across the country. The online version is constantly being updated.

“New Tools for Better Home Modifications.” Pynoos, J. & Sanford, J. The Case Manager Magazine, January/February (2002), 67-70.

AVAILABLE FROM: Mosby, Inc., 11830 Westline Industrial Dr., St. Louis, MO 63146-3318. (314) 453-4350, reprint no. 68/1/122041.

This article explores the possibility of case managers incorporating home modifications into their plans to further the quality of life of their clients. CASPAR™ (the Comprehensive Assessment Survey Process for Aging Residents) is suggested as an effective, user-friendly home assessment tool for health professionals.

“Occupational Therapy for Independent-Living Older Adults: A Randomized Controlled Trial.” Clark, Florence, S.P. Azen, R. Zemke, J. Jackson, M. Carlson, et al. The Journal of the American Medical Association, 278:16, (22/29 October 1997): 1321-1326.

This study was limited to an urban setting of independently living seniors in or close to government subsidized senior housing complexes. Subjects were recruited at different times in two cohorts with the second cohort completing each study phase about 16 months after the first cohort. The method of intervention in the occupational therapy groups was to encourage the participants to individually identify their personal relationship of occupation to health. The results of the Well-Elderly Study indicate that preventive occupational therapy training benefits elderly adults living in an urban senior apartment setting and extends to multiple ethnicities. Further study is needed to analyze cost-benefit. Further research is suggested to replicate the results in elderly people living in other situations.

“Physical Design of the Home as a Caregiving Support: An Environment for Persons with Dementia, The.” Olsen, R., Hutchings, B., and Ehrenkrantz, E. The Journal of Long Term Home Health Care, 1:2 (1999), 125-131.

This article focuses on home modifications as an aid for caregivers of individuals with dementia. Olsen et al. outline both beneficial and detrimental design features that facilitate or hinder caregiving efforts.

“Population-Based Study of Environmental Hazards in the Homes of Older Persons, A.” Gill, Thomas M, C.S. Williams, J.T. Robison, and M.E. Tinetti. American Journal of Public Health. 89:4,(April 1999), 553-556.

This study reports that disabled and non-disabled older persons are just as likely to be exposed to hazardous conditions in their homes. This finding occurred in community-dwellings as well as in age-restricted living environments occupied by both disabled and non-disabled individuals. The study used a standard checklist derived from preexisting environmental assessment instruments. The data was collected by a trained research nurse. The study found that it is erroneous to assume that age-restricted housing is inherently safe and free of potential hazards.

“Predicting Participation and Adherence to a Home Environmental Intervention Among Family Caregivers of Persons with Dementia.” Gitlin, Laura N., M. Corcoran, L. Winter, A. Boyce, and S. Marcus. Family Relations, 48:4 (1999), 363-372.

This study was aimed at caregivers of demented elders who were in need of assistance but were neither bedridden nor non-responsive to touch or the environment. The study evaluated the effectiveness of home environmental interventions to aid the caregiver by providing assistance with activities of daily living and reduction of agitated or wandering behaviors. It also assessed who would most likely accept environmental adaptations and adhere to a plan of adjustment. The most likely situation for acceptance of environmental interventions and adaptation is if the caregiver is a woman who needs help completing daily tasks. Focusing on only three problem areas at a time, and attempting to integrate no more than nine new strategies at a time is the tolerance limit for a caregiver. Suggestion is made for further study of emotional stress as an outcome measure of caregiver integration studies or as a moderator of treatment effect.

“Prescribing Adaptive Devices to the Elderly: Principles for Treatment in the Home.” Gitlin, Laura N. and Levine, Ruth E. International Journal of Technology and Aging, 5:1, (Spring/Summer, 1992), 107-120.

This article discusses the role of assistive devices in the home of older adults, and provides four basic treatment principles. These principles include goal identification by the patient, caregiver involvement in the process, treatment approaches, and the psychosocial aspects of treatment and use of assistive device.

“Preventing Falls in Elderly Persons.” Tinetti, M. The New England Journal of Medicine, 348:1, (2003), 42-49.

Tinetti details various options to counter the problem of falls in older adults. Medication monitoring, vision and blood pressure checks, balance and gait assessments, and neurological, musculoskeletal, and cardiovascular examinations are

explored as possible interventions. Home hazard evaluations are also highlighted as a positive intervention.

“Randomized, Controlled Trial of a Home Environmental Intervention: Effect on Efficacy and Upset in Caregivers and on Daily Function of Persons with Dementia, A.” Gitlin, L., Corcoran, M., Winter, L., Boyce, A., and Hauck, W. **The Gerontologist**, **44:1**, (2001), 4-14.

Gitlin, et al. examine the emotional impact of home interventions on caregivers of individuals with dementia. The results point to positive impacts on self-efficacy and caregiver upset with certain subgroups and the modest reduction of patient decline in performing instrumental activities of daily living. The study mentions the need for further research of home interventions on caregiver well being, an area that has often been dominated with research on psychosocial interventions.

Safety and Security of the Elderly: Implications for Smart House Design. Czaja, Sara J. **International Journal of Technology and Aging**, **1:1**, (1988), 49-66.

The importance of recognizing the needs of elderly in the design process of the home environment is emphasized in this article. The “Smart House” is presented as a housing alternative for the future that can enhance the independent functioning of older persons, reduce the risk of accidents, and increase home security. Design features of the kitchen, the bathroom, and bedroom of a “Smart House” are discussed.

Safety for Older Consumers: Home Safety Checklist. U.S. Consumer Product Safety Commission. Washington, D.C.: U.S. Consumer Product Safety Commission, 1986.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/safety.html>

AVAILABLE FROM: Office of Information and Public Affairs, U.S. Consumer Product Safety Commission, Washington, D.C. 20207, (301) 504-0500 (Price: Free).

This checklist is designed to alert the older person to potential hazards and thus, to make homes and living areas safer. The checklist is organized by areas of the home and recommendations are listed next to the various hazards. Contact information (with addresses and phone numbers) is provided for the U.S. Consumer Product Safety Commission and the regional offices.

“Self-Care and Assistance From Others in Coping with Functional Status Limitations Among a National Sample of Older Adults.” Norburn, J.E.K., S.L. Bernard, T.R. Konrad, A. Woomert, G.H. DeFriese, W.D. Kalsbeek, G.G. Koch, and M.G. Ory. **Journal of Gerontology Social Sciences**, **50B: 2**, (1995), S101-S109.

This study used the National Survey of Self-Care and Aging (NSSCA) to examine older adults’ self-care practices in coping with functional status limitations. Three types

of self-care coping strategies were identified: use of equipment or devices, changes in behavior, and modifications is one's environment. In brief, this study found that the likelihood of engaging in self-care coping strategies increased as the severity of disability increased, except among the most severely disabled. In addition, the most prevalent self-care coping strategy involved changes in patterns of behavior. Finally, sociodemographic factors were not related to the practice of self-care.

“Social and Physical Environments for the Vulnerable Aged.” Soldo, Beth J. and Charles F. Longino, Jr. In America's Aging: The Social and Built Environment in an Older Society, Institute of Medicine and National Research Council. Washington D.C.: National Academy Press, 1988.

This analysis, based on data from the National Long Term Care Survey, examined functional dependency, disability, and vulnerability in relation to special features that accommodate dependency. It found that as the level of frailty increases, more older persons have special features such as grab bars in their home environment. Nevertheless, almost 50% of severely impaired older persons living alone lack such features, suggesting a large unmet need for modifications.

Staying Put: Adapting the Places Instead of the People. Lanspery, Susan and Joan Hyde (Eds). Amityville, New York: Baywood Publishing, 1996.

This book integrates a wide range of theoretical and practical ideas about housing adaptations. Topics include: linkages between younger and older consumers with disabilities, personal assistance, home adaptations and modifications theory, application, and a Consumer Decision Model.

“Strategies for Home Modification and Repair.” Pynoos, Jon. Generations, 16:2, (Spring, 1992), 21-25.

This article outlines strategies for developing home modification and repair programs. Since older adults tend to live in older housing, modifications are difficult. Suggestions to foster home modification projects include assessing the current home environment, expanding public awareness, and increasing financial support for the establishment of such programs.

“Study of Housing and Personal Assistance Issues for People with Disabilities Residing in Nursing Homes, A”. Kruger, Daniel J. Barriers To Independence: Access Living & The Center for Urban Research and Learning. Loyola University, Chicago. June 21, 2000.

AVAILABLE ONLINE AT: <http://www.luc.edu/curl/pubs/#9>

This study examines the conditions influencing the placement of disabled people in nursing homes and the barriers that prevent nursing home residents from living independently. Data of the survey conducted show that over half of the adults living in nursing homes prefer not to if an alternative option is available. Financial concern is cited as the main barrier that prevents seniors from living in the communities.

“Systems, Change, Coalition Building and Collaboration.” Gay, Jan Evans. Iowa Program for Assistive Technology: University of Iowa. In **A Blueprint for Action: The Second National Working Conference on Home Modifications Policy**. April 22-23, 1996. Washington, D.C.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/blueprint.html>

AVAILABLE FROM: The National Resource Center on Supportive Housing and Home Modification, University of Southern California, Los Angeles, California 90089-0191. (213) 740-1364, or email: homemods@usc.edu

This paper notes that three major issues related to home modifications need to be addressed through systems change: awareness, service delivery, and funding policies. Different strategies target each problem. For example, effective information dissemination strategy is applied to increase awareness to specific groups. Collaboration between coalitions is also encouraged to better achieve effective service delivery in home modifications.

“Team Approach for Home Modifications, A.” Pynoos, J., Sanford, J., and Rosenfelt, T. **OT Practice**, April 8, (2002), 15-19.

This article explores the use of CASPAR™, the Comprehensive Assessment Survey Process for Aging Residents, as a home assessment instrument. CASPAR combines the specific concerns of consumers, building professionals, and occupational therapists in performing home modifications assessments.

“Testing Home Modification Interventions: Issues of Theory, Measurement, Design, and Implementation.” Gitlin, Laura N. **Annual Review of Gerontology and Geriatrics**, Vol. 18, (1998): 190-246.

This chapter explores the use of environmental interventions to guide the older adult toward safer, more independent living, with the aim of reducing the need for medical care. Challenges are posed for the evaluation of the effectiveness of these interventions according to sociological and behavioral standards. Home modifications implemented for the benefit of the caregiver most often are used to manage dementia-related behaviors. A functional-environmental need model is proposed as a framework for designing interventions for older people according to level of risk or functional loss. Research ideas are proposed with discussion of possible limitations.

“Transforming Lives in Another Place and Time: Adapting the USC Lifestyle Redesign Program.” Nelson, Laurie E. Gerontology: Special Interest Section Quarterly, American Occupational Therapy Association, Inc., 22:4. (December 1999), 1-3.

Follow-up study to the USC Well Elderly Study which offers results of lifestyle redesign in a continuing care facility of varying levels of independent and assisted living. The sample of this study was ethnically homogenous and consisted primarily of retired professionals, unlike the original study. Suggestions are made for expanding into new markets.

Universal Design Comes Home. Wilson, Peni, ASID. San Diego, CA.

AVAILABLE ONLINE AT:

<http://www.homemods.org/library/pages/univdesign.html>

This article reviews the emerging trend that as medical technology advances, more people live longer with disabilities. Hence, there is the need to address the importance of universal design. The article suggests 12 tips for a universally designed home, which includes amenities people of all ages could benefit from, rather than just the elderly or people with disabilities.

Universal Design: Creative Solutions for ADA Compliance. Null, Roberta L. & Kenneth F. Cherry. Belmont, California: Professional Publications, Inc., 1996.

This book is a comprehensive guide which focuses on the concept of universal design as it relates to the requirements of the Americans with Disabilities Act (ADA) for accessibility standards. It includes case studies, illustrations and examples of design applications.

Universal Design - Home Modification. American Association of Retired Persons.

AVAILABLE ONLINE AT: <http://www.aarp.org/universalhome/>

This publication has organized, easy to follow links to sections/aspects of the home: including windows and doors, kitchen and bath, storage, electrical, lighting, the area outside the home, steps and walkways. Resources for home modifications are also listed. Each section begins with questions to help identify places in the home that may need modifications, then links are provided to give specific product information or places to go for information on the necessary modification procedures.

Universal Kitchen and Bathroom Planning: Design that Adapts to People. Peterson, Mary Jo. New York: New York, McGraw-Hill Publication Co., 1998.

This comprehensive book on kitchen and bathroom planning includes universal design guidelines on every aspect of these two major areas of the home. Chapters focus on products and safety assessments, space planning, and understanding disabilities and

functional considerations. This book also includes numerous helpful, easy to understand, universal design drawings for kitchen and bathroom.

Unlawful Discrimination - Your Rights and Remedies. Civil Rights Handbook (Chapter III: Housing).

AVAILABLE ONLINE AT: <http://www.homemods.org/library/pages/rights.html>

AVAILABLE FOR ORDER FROM: The Office of The Attorney General Public Inquiry Unit, PO Box 944255, Sacramento, CA 94244-2550; (916) 322-3360, (800) 952-5225 (in California).

This chapter describes both California state (Fair Employment, Housing Act, Unruh Civil Rights Act) and federal laws that protect people from housing discrimination. It also features procedures to follow and remedies available along with miscellaneous state statutes prohibiting discrimination in housing. This chapter includes the Federal Fair Housing Act and 42 U.S.C. Section 1982, federal laws which prohibit the discrimination by financial institution in the making of commercial real estate loans.

“Using Technology to Adapt Environments.” Faletti, Martin V. Generations, (Summer 1984), 35-38.

This article differentiates between environmentally-based interventions and the disability oriented views of functionally impaired older persons. Daily living activities and the environment are examined in terms of assisting the older person or avoiding barriers to tasks.

“Validity of Older Homeowners’ Housing Evaluations.” Chen, Alexander and Sandra Newman. The Gerontologist, 27:3, (1987), 309-313.

This article reports the results of a survey, which found that self-reports of housing conditions are an accurate reflection of the actual housing conditions of older homeowners. The authors suggest that policymakers need to listen to homeowners who indicate a need for repairs and suggest that ignoring these requests could result in older persons living in unsafe housing conditions.

“Value of OT in Home Safety, The.” Sevigny, Joan. OT Practice, 5,6 (March 13, 2000), 10-13.

An occupational therapist with 11 years experience in home health describes what she has learned about directly affecting a person’s home environment. It is important for the home safety evaluator to remember that s/he is a guest in the client’s home. Any assessment that is offered contains suggestions and it is up to the client to accept what will work for him/her. The assessor should encourage the client to adopt the safest solutions for function in the home.

Who will help with Ramps & Home Modifications. Disability Solutions Through Technology. Fact Sheet 7















AVAILABLE ONLINE AT: <http://www.katsnet.org/fact7.html>










Additional publications on building your own ramp and other resources on home modifications are available for order at 502-327-0022 or 800-327-5287.


















This fact sheet describes both statewide and regional programs in Kentucky that are sources of assistance to help build ramps and support home modifications. The programs listed are private insurance, managed care programs, home and community based waivers, Social Security, the Rural Housing Administration, Habitat for Humanity, public and private loan programs and more.

















“Why Older People Accept or Reject Assistive Technology.” Gitlin, Laura N. Generations, XIX:1, (Spring, 1995), 41-46.












This article examines the factors which influence whether older adults utilize assistive technology. Factors that predict the use of assistive devices include the severity of mobility limitation and attitudes towards using assistive devices. Reasons for use and abandonment are also described.












Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
“AAA and NORCs.” The Supportive Housing Connection - A Technical Assistance Quarterly. http://www.homemods.org/library/pages/aaa.htm						
Access Loans (By Bank of America.) http://www.bankofamerica.com/loansandhomes/index.cfm?template=lc_more_loans						
Accessibility: It's Yours for the Asking! http://www.homemods.org/library/pages/access.html						
Americans with Disabilities Act: A Comprehensive Overview. http://www.homemods.org/library/pages/ada.html						
An Analysis of the Effects of Ramp Slope on People with Mobility Impairments http://www.homemods.org/library/ramp/						
Assistive Technology Funding Resources http://www.infinitec.org/live/homemodifications/housingresources.htm						
Boulevard, The http://blvd.com/Barrier_Free_Construction/						





Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Bringing Universal Design Ideas to the Public: Interactive Exhibits in Southern California http://www.homemods.org/library/pages/ universaldesign.htm						
Enabling Home Environments: Strategies for Aging in Place http://www.ap.buffalo.edu/idea/ publications/free_pubs/pubs_ehes.html						
Enabling Products Source Book 2 http://www.homemods.org/library/pages/ enabling.html						
Fannie Mae http://www.fanniemae.com (Click on "Affordable Housing Solutions.")						
Funding, Financing, and Other Resources for Home Modifications http://www.homemods.org/library/pages/ funding.html						
Gerontologic Environmental Modifications (GEM) http://www.cornellaging.org/gem/assessmen ts_index.html						
Great Minnesota Fix-Up Fund, The http://www.mhfa.state.mn.us/homes/homes_ improvement.htm						

Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Home Modification: A NARIC Resource Guide http://www.naric.com						
Home Modification Capacity Building: Strategies from Programs in Action http://www.homemods.org/library/pages/capacity.htm						
Home Modification http://homemods.org/pages/homemods.htm						
Home Modifications Discussion List http://www.ap.buffalo.edu/idea/special_interest/special.html#HomeList.com						
Home Modifications Resource Guide (2001) http://www.homemods.org/center_publications/index.htm (Click on "Home Modifications Resource Guide.")						
Housing America's Seniors http://www.jchs.harvard.edu/publications/seniors/housing_americas_seniors.pdf						
HyperHome Resource: A technical information manager for Home Modification Services to Older People http://www.ap.buffalo.edu/idea/publications/free_pubs/pubs_hyperhome.html						

Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
HyperHome Resource: Enabling Home Environments: Identifying Barriers to Independence http://www.cornellaging.org/gem/research_barriers_index.html						
Life-Span Design of Residential Environments for an Aging Population. http://www.homemods.org/library/life-span/						
Making Homes Accessible: Assistive Technology and Home Modifications http://www.resna.org/taproject/policy_community/HMRG.htm						
Manufactured Home Loan Insurance- HUD's Title I Program http://www.hud.gov/progdesc/manuf14.html						
Maryland Technology Assistance Program http://www.mdtap.org (click "TAP Services", then on "Home Modifications Directory.")						
National Directory of Home Modification Resources http://www.homemods.org/linked-frameset.htm						

Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
National Resource Center on Supportive Housing and Home Modification http://www.homemods.org						
National Survey on Housing and Home Modification Issues, A http://research.aarp.org/il/ home_mod_1.html						
Opening Doors - A Housing Initiative for the Disability Community http://www.c-c-d.org/intro_page.htm						
Pennsylvania Housing Finance Agency - The Access Home Modification Program http://www.phfa.org/programs/singlefamily/a hm.htm						
Rehab a Home with HUD's 203(k) Rehab Program http://www.hud.gov/offices/hsg/sfh/203k/203 kabou.cfm						
Safety for Older Consumers: Home Safety Checklist http://www.homemods.org/library/pages/ safety.html						

Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Strategies for Providing Accessibility & Visitability for HOPE VI and Mixed Finance Homeownership http://www.huduser.org/publications/pubasst/strategies.html						
Systems, Change Coalition, Building and Collaboration http://www.homemods.org/library/pages/blueprint.html						
Technology-Related Assistance for Individuals with Disabilities Act of 1988 http://www.resna.org/taproject/at/statecontacts.html						
Universal Design Comes Home http://www.homemods.org/library/pages/univdesign.html						
Universal Home- Home Modification Devices. http://www.aarp.org/universalhome/						
Unlawful Discrimination- Your Rights and Remedies. http://www.homemods.org/library/pages/rights.html						

Web-based Resources: Title Website Address	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Visitability Discussion List http://www.ap.buffalo.edu/idea/special_interest/special.html						
What is the ADA? http://www.homemods.org/library/pages/ada2.html						
Who Will Help with Ramps & Home Modifications http://www.katsnet.org/fact7.html						

ANNOTATIONS FOR WEB-BASED RESOURCES

AAA and NORCs. The Supportive Housing Connection – A Technical Assistance Quarterly. June 1995. (Also in Publications). National Resource Center on Supportive Housing and Home Modification

<http://www.homemods.org/library/>

This article explains what a NORC (Naturally Occurring Retirement Community) is, the background of NORCs, the different ways to identify them by location, physical dimension, population size, demographic characteristics and reasons for existence. The article also addresses reasons why the aging network should care about NORCs, and the challenges and opportunities that are associated with them.

Access Loans. (By Bank of America)

http://www.bankofamerica.com/loansandhomes/index.cfm?template=lc_more_loans

This program provides three different types of loans: vehicle loans, home modifications loans for homeowners, and personal loans for special needs like adaptive equipment. Access loans offer special benefits such as extended loan repayment periods, lower minimum loan amount, and lower interest rates with the option of automatic payment deduction from a Bank of America checking or savings account.

Accessibility: It's Yours for the Asking!

<http://www.homemods.org/library/pages/access.html>

This article addresses some of the most common problems that people with disabilities face everyday. Examples are difficulty in hearing the dialogue in a movie theater, or inaccessible store entrances for people in wheelchairs or using walkers. Under the Americans with Disabilities Act, people have the right to request accommodations that allow them to participate in a variety of activities. The one-to-one problem/solution format presented is easy to follow, and can serve as a reference for people who may have similar experiences.

American with Disabilities Act: A Comprehensive Overview (Also in Publications)

<http://www.homemods.org/library/pages/ada.html>

This publication includes an overview of The Americans with Disabilities Act (ADA), its implementation, and explains every aspect of each title in detail. It also provides contact information on how to file complaints in the state of California or obtain

further information on ADA, and emphasizes the importance of the department of rehabilitation as a valuable resource to strengthen the implementation of ADA.

An Analysis of the Effects of Ramp Slope on People with Mobility Impairments. North Carolina State University: The Center for Universal Design, School of Design. Raleigh, North Carolina. (Also in Publications) Sanford, Jon A., Molly Follette Story, Michael L. Jones.

<http://www.homemods.org/library/ramp/>

This study evaluates the usability of the range of ramp slopes allowed under the ADA accessibility guidelines. Subjects of all ages and level of disabilities traversed these ramps of varying slopes, and data was collected on their pulse rate, energy expenditure, rate of travel, distance traveled, and location of rest stops. This paper discusses subject recruitment, testing procedures, data collection, and evaluation of the results in detail.

Assistive Technology Funding Resources

<http://www.infinitec.org/live/homemodifications/housingresources.htm>

This website provides a comprehensive range of ideas on assistive technology, home modifications, and touches on universal design and visitability. There is also information about funding options.

Boulevard, The

http://blvd.com/Barrier_Free_Construction/

This website is full of useful links to barrier-free products and services. Included are: a directory of companies and services related to universal design or home modification products, classified ads, medical links, and newsletters available for subscription.

Bringing Universal Design Ideas to the Public: Interactive Exhibits in Southern California. (1999). In Maximizing Human Potential, Winter (1999). (Also in Publications) Overton, Julie and Pynoos, Jon.

<http://www.homemods.org/library/pages/universaldesign.htm>

This paper addresses the importance of home modification for older adults in order to ensure a safe living environment that promotes independence. The University of Southern California Andrus Gerontology Center's Home Modification Action Project (HMAP) organized home modification exhibits with the Pasadena Home Modification Coalition and the Santa Clarita Home Modification Coalition. Each exhibit was open

to the public for free for two months and allowed consumers to have first hand experience with some home modification devices. Not only were these exhibits successful in bringing coalition members closer together, they also helped to increase the availability and awareness of home modifications to communities.

Enabling Home Environments: Strategies for Aging in Place.

http://www.ap.buffalo.edu/idea/publications/free_pubs/pubs_ehes.html

This study focuses on the effectiveness of technical assistance in helping people to make modifications, and the reasons why modifications are not made. Recommendations for improvements to service delivery are proposed based on the study findings.

Enabling Products Sourcebook 2. (Also in Publications) ProMatura Group.

<http://www.homemods.org/library/pages/enabling.html>

This sourcebook addresses the problem that home modification products are being developed with little regard for the unique demands of users with different capabilities. Products and homes designed without regard for variables of the human condition impede the user. To address this issue, the sourcebook is designed to assist professionals in selecting products for environments by identifying those that are easier to use by larger numbers of people for longer periods of time, and provide professionals with objective, useful criteria when selecting products.

FannieMae.

<http://www.fanniemae.com> (Click on “Affordable Housing Solutions.”)

FannieMae offers various types of funding that target different groups of people, such as community lending projects for low-income individuals that does not require down payment funds and qualifying income, and offers flexible mortgages. There are also other types of funding dedicated to help elderly and disabled individuals afford suitable housing, such as home improvement loans, reverse mortgage for seniors, employer-assisted housing plans, loans for people with disabilities, loans for native Americans, rural housing loans, and manufactured housing.

Funding, Financing, and Other Resources for Home Modifications. North Carolina State University: Center for Universal Design, School of Design. In A Blueprint for Action: The Second National Working Conference on Home Modification Policy April 22-23, 1996. Washington, DC. (Also in Publications) Duncan, Richard.

<http://www.homemods.org/library/pages/funding.html>

The full version of this paper can be found in the January / February 1998 issue of Technology and Disability.

This article discusses the lack of awareness about the many existing funding and financing resources, which is incompatible with the growing understanding of the need for and the benefits of home modifications. This paper reviews funding, financing, and other resources for home modifications, outlines the current constraints and future limitations to these resources and suggests actions to increase the availability of home modifications.

Gerontologic Environmental Modifications

http://www.cornellaging.org/gem/assessments_index.html

This website contains comprehensive home safety assessment protocols for multi-room and studio apartments. The protocols cover a broad range of environmental features, including accessibility, furniture, flooring and lighting.

Great Minnesota Fix-Up Fund, The

http://www.mhfa.state.mn.us/homes/homes_improvement.htm

This Minnesota program, started in 1975, offers property improvement loans through the participation of local banks, credit unions, and housing agencies. The fund is available to low or medium income homeowners, but does not have a maximum household income limit. The only eligible changes however, are improvements to the livability, accessibility, or energy efficiency of the home and not for recreational or entertainment facilities. The property also needs to be owner-occupied, range between one to four units; mobile homes are not eligible for the loan unless it is fixed on permanent foundation and taxed as real property.

Home Modification: A NARIC Resource Guide.

<http://www.naric.com>

An internet site of the National Rehabilitation Information Center. It contains information on publications, organizations, and how to identify products through ABLEDATA.

Home Modification Capacity Building: Strategies from Programs in Action. In Maximizing Human Potential, Winter (1998), 3-5. (Also in Publications) Overton, Julie.

<http://www.homemods.org/library/pages/capacity.htm>

This paper focuses on the importance of improving the service delivery of home modifications to people with disabilities, and the need to increase the coordination between various sectors involved in home modifications, such as housing, aging, medical, and disability. Five programs are reviewed in this paper which addresses the importance of local coalitions, commitment from the local Area Agency on Aging, problems encountered by emerging non-profit organization, a remodeler's perspective on home modifications, and the participation from for-profit business to deliver home modifications.

Home Modification and Repair

<http://homemods.org/pages/homemods.htm>

A comprehensive fact sheet on home modification: what it is, why it is important, ways of financing it, etc.

Home Modifications Discussion List.

http://www.ap.buffalo.edu/idea/special_interest/special.html#HomeList.com

The Center for Inclusive Design & Environmental Access (IDEA) sponsors a discussion list to maintain communication and dialog among those interested in home modifications. The IDEA Center is based at the School of Architecture and Planning - University at Buffalo, Buffalo, New York. (Instructions for signing on is available on the website.)

Home Modifications Resource Guide (2001).

http://www.homemods.org/center_publications/index.htm (Click on "Home Modifications Resource Guide.")

This Guide contains four sections--Publications, Web-based Resources, Assessment Tools and Audio/Visuals--organized alphabetically by title and categorized to indicate the area of focus. Following the chart in each section are annotations which provide contact and ordering information. At the end of the Guide is an inventory of Journals and Newsletters, Organizations, and Institutions that can provide information and technical assistance.

Housing America's Seniors. Cambridge, Boston, 2000. (Also in Publications) Joint Center for Housing Studies of Harvard University.

http://www.jchs.harvard.edu/publications/seniors/housing_americas_seniors.pdf

This report focuses on the issues to be addressed to accommodate the needs of the

elderly population. Most of them wish to age in place but have to face the consequences of aging, and thus are restricted in their housing choice. The report examines the housing needs of America's senior population, and urges the housing industry and public policy makers to respond with home modifications, supportive services, and housing alternatives. It also projects the demographic and economic profiles of the next generation of seniors and examines their likely housing choices, labor force participation, and lifestyles.

HyperHome Resource: A technical information manager for home modification services to older people.

http://www.ap.buffalo.edu/idea/publications/free_pubs/pubs_hyperhome.html

HyperHome Resource is a technical information management source for information on home modifications, and assists service providers to obtain and use the database. The microcomputer application program helps manage the technical information on products and environmental design options. The program is designed to provide customized information for individuals of all ages with assistance creating an enabling environment.

HyperHome Resource. Enabling home environments: Identifying barriers to independence.

http://www.cornellaging.org/gem/research_barriers_index.html

Identifies barriers faced by older disabled people and what specific interventions should be applied to remove the barriers from the environments in which they live. Such information can be used to identify priorities for development of assistive devices, home modifications, innovative design concepts and service programs.

Life-Span Design of Residential Environments for an Aging Population. Washington, D.C.: American Association of Retired Persons, 1993. (Also in Publications)

<http://www.homemods.org/library/life-span/>

This book focuses on the importance of life-span design, which enables independent living by reducing barriers to mobility and the emerging problems faced by policymakers and planners due to extended longevity. Challenges such as healthcare, retirement income, and housing are targeted by life-span design, which addresses elements of residential environments that foster and maintain independent living as people age. The focus is not on a person's disabilities, as obstacles to remaining in one's home, but rather the disabling features of the home environment that require modification. This book is divided into categories on various aspects of life-span design, high-tech application, low-tech application, and effects on senior housing.

Making Homes Accessible: Assistive Technology and Home Modifications

<http://www.resna.org/taproject/policy/community/HMRG.htm>

Produced by the RESNA Technical Assistance Project, this website provides information about assistive technology and home modifications. The guide covers definitions; laws and guidelines; initiatives from the Assistive Technology Act grantees; advocacy, financing, modification, and research resources; accreditations; online courses; and a bibliography.

Manufactured Home Loan Insurance - HUD's Title I Program

<http://www.hud.gov/progdsc/manuf14.html>

This program insures mortgage loans made by private lending institutions to finance the purchase of new or used manufactured homes. Its purpose is to protect mortgage lenders against the risk of default and to encourage them to finance manufactured homes. The insurance is eligible to all private lending institutions on loans made under the HUD program.

Maryland Technology Assistance Program

<http://www.mdta.org> (Click on "TAP Services," then on "Home Modifications Directory.")

This website contains a directory of home modification resources in specific areas in the state of Maryland.

National Directory of Home Modification Resources, The. National Resource Center on Supportive Housing and Home Modification (current).

<http://www.homemods.org/linked-frameset.htm>

This directory contains a listing of private and public home modification/repair programs across the country. The online version is constantly being updated.

National Resource Center on Supportive Housing and Home Modification.

<http://www.homemods.org>

This website is a wealth of information on the diverse range of issues associated with supportive housing and home modification. The Resource Center is headquartered at the University of Southern California's Andrus Gerontology Center, and is sponsored by the Archstone Foundation and The California Endowment.

**National Survey on Housing and Home Modification Issues, A Washington, D.C.
(Also in Publications) Bayer, Ada-Helen, Leon Harper, Mathew Greenwald and Associates.**

http://research.aarp.org/il/home_mod_1.html

This report entitled “Fixing to Stay” presents results from a nationwide survey of Americans age 45 and over compiled in May 2000. As the fifth in a series of the AARP “Understanding Senior Housing” Studies, it examines their opinions of their current and future housing situation, with an emphasis on home modifications that enable people to live independently. The report includes information on current housing, plans, getting around the home, home modifications, housing-related financial issues, and minority differences from the majority group on all aspects of home modifications.

Opening Doors: A Housing Initiative for the Disability Community.

http://www.c-c-d.org/intro_page.htm

This is a quarterly publication that raises current issues for the disability community. It is designed to provide important information on affordable housing issues to people with disabilities and other related groups. Each quarterly publication covers a major affordable housing issue and examines its impact on the ability of people with disabilities to live independently.

Pennsylvania Housing Finance Agency - The Access Home Modification Program

<http://www.phfa.org/programs/singlefamily/ahm.htm>

This program provides mortgage loans to assist persons with disabilities who are purchasing homes and need accessibility modification. This program provides a deferred payment loan, with no interest, and no repayment until the house is sold or the first mortgage is paid off. Access Home mortgage loans fund modifications in the bathroom or kitchen, the addition of grab bars, and ramp construction or repair.

Rehab a Home With HUD’s 203(k) Rehab Program

<http://www.hud.gov/offices/hsg/sfh/203k/203kabou.cfm>

The 203(k) rehab program is the Department of Housing and Urban Development’s primary program for the rehabilitation and repair of single-family properties. HUD is committed to increasing home ownership opportunities through this program. The Federal Housing Administration (FHA), which is part of HUD, administers various single-family mortgage insurance programs. FHA-approved lending institutions appraise the property and assess buyers’ credit background. These lending

institutions then fund the mortgage, which the department insures. Lenders often are in partnership with state and local housing agencies and non-profit organizations to rehabilitate properties.

Safety for Older Consumers: Home Safety Checklist. Washington, D.C.: U.S. Consumer Product Safety Commission, 1986. (Also in Publications) U.S. Consumer Product Safety Commission.

<http://www.homemods.org/library/pages/safety.html>

This checklist is designed to alert the older person to potential hazards and thus, to make homes and living areas safer. The checklist is organized by areas of the home and recommendations are listed next to the various hazards. Contact information (with addresses and phone numbers) is provided for the U.S. Consumer Product Safety Commission and the regional offices.

Strategies for Providing Accessibility & Visitability for HOPE VI and Mixed Finance Homeownership.

<http://www.huduser.org/publications/pubasst/strategies.html>

In this publication, HUD helps to work toward the goal of standardizing modest and universal access to rental and for-sale units. To achieve this goal, HUD works with architects and design firms to develop design strategies that are both attractive and functional for families with disabilities of all levels. This publication also includes designs that are unobtrusive and inexpensive to enhance the appeal of modified homes and increase accessibility for people of all ages and varied disabilities.

Systems, Change, Coalition Building and Collaboration. Gay, Jan Evan. In A Blueprint for Action: The Second National Working Conference on Home Modifications Policy. April 22-23, 1996. Washington, D.C. (Also in Publications)

<http://www.homemods.org/library/pages/blueprint.html>

This paper notes that three major issues related to home modifications need to be addressed through systems change: awareness, service delivery, and funding policies. Different strategies are applied to target each problem. For example, an effective information dissemination strategy is applied to increase awareness of specific groups. Collaboration between coalitions is also encouraged to achieve a more effective service delivery system in home modifications.

Technology-Related Assistance for Individuals with Disabilities Act of 1988

<http://www.resna.org/taproject/at/statecontacts.html>

This directory provides contact information, addresses, and links to websites on various state programs and projects that are funded under this Act.

Universal Design Comes Home. A Designer's Influence, San Diego, CA. (Also in Publications) Wilson, Peni. ASID

<http://www.homemods.org/library/pages/univdesign.html>

This article reviews the emerging trend that as medical technology advances, more people live with disabilities. Hence, there is the need to address the importance of universal design. The article suggests 12 tips for a universal designed home, which includes beneficial modifications for all ages.

Universal Home - Home Modification. American Association of Retired Persons Webplace. (Also in Publications)

<http://www.aarp.org/universalhome/>

This website has organized, easy-to-follow links to sections/aspects of the house including windows and doors, kitchen and bath, storage, electrical, lighting, the area outside the home, steps and walkways. Resources for home modifications are also listed. Each section begins with questions to help identify places in the house that may need modifications, then links are provided at the end of each section to give specific product information or places to go for information on the necessary modification procedures.

“Unlawful Discrimination - Your Rights and Remedies.” Civil Rights Handbook (Chapter III: Housing). (Also in Publications)

<http://www.homemods.org/library/pages/rights.html>

This chapter describes both California state (Fair Employment, Housing Act, Unruh Civil Rights Act) and federal laws that protect people from housing discrimination. It also features procedures to follow and remedies available along with miscellaneous state statutes prohibiting discrimination in housing. This chapter includes the Federal Fair Housing Act and 42 U.S.C. section 1982, federal laws which prohibit the discrimination by financial institution in the making of commercial real estate loans.

Visitability Discussion List

http://www.ap.buffalo.edu/idea/special_interest/special.html

Sponsored by the Center for Inclusive Design & Environmental Access (IDEA), this electronic list promotes dialog among those interested in the topic of “visitability.” Instructions for signing on to the list are available on the website.

What is the ADA?












<http://www.homemods.org/library/pages/ada2.html>








This fact sheet provides an introduction to the Americans with Disabilities Act (ADA), including a definition of the Act, a brief description of each Title from I to V and contact information for the departments responsible for each Title. Included is also information on role of the department of rehabilitation, impact and intent of the Americans with Disability Act.

Who will help with Ramps & Home Modifications. (Also in Publications) Disability Solutions Through Technology. Fact Sheet 7

<http://www.katsnet.org/fact7.html>

This fact sheet describes both statewide (i.e., for Kentucky) and regional programs that are sources of assistance to help building ramps and support home modifications. The listed statewide programs are private insurance, manage care programs, home and community based waivers, social security, the Rural Housing Administration, Habitat for Humanity, loan programs and more. Limited regional programs are also recommended for some counties and states.

Assessment Tool: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Caring Home Booklet, The: Environmental Coping Strategies for Alzheimer's Caregivers. Pynoos, J., Cohen, E., Lucas, C.						
Consumer's Guide to Home Adaptations, A. Adaptive Environments Center						
Gerontologic Environmental Modifications (Weill Medical College of Cornell University)						
Home Safety Guide for Older People: Check It Out, Fix It Up. Pynoos, J., Cohen, E., Lucas, C., Davis, L.						
Home-Safe-Home™ Brent, R. and Brent, E.						
How Well Does Your Home Meet Your Needs? American Association of Retired Persons.						
Maintaining Seniors' Independence: A Guide to Home Adaptations Trickey, F., Maltais, D., Robitaille, Y.						

Assessment Tool: Title Author/Publisher	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Perfect Fit, The: Creative Ideas for a Safe and Livable Home Pynoos, J. and Cohen, E.						
Preventing Falls: Home Hazard Checklists to Help Older Patients Protect Themselves. Tideiksaar, R.						
SAFER Tool, The Community Occupational Therapist and Associates (COTA)						
Safety for Older Consumers: Home Safety Checklist U.S. Consumer Product Safety Commission						

ANNOTATIONS FOR ASSESSMENT TOOLS

Caring Home Booklet, The: Environmental Coping Strategies for Alzheimer's Caregivers. Pynoos, Jon, Evelyn Cohen, Claire Lucas in collaboration with Russell Ohta, Eileen Halter, and Sandra Hattori. Long Term Care National Resource Center at UCLA/USC.

AVAILABLE ONLINE AT: <http://www.homemods.org/library/carhom/toc.htm>

The role of the environment is examined in relationship to its ability to support the person with Alzheimer's Disease and the caregiver in the home. This booklet provides a variety of modification suggestions to reduce problems such as wandering, losing or hiding things, bathing, and toileting. It includes an inventory of places to obtain resources and materials.

Consumer's Guide to Home Adaptations, A. Adaptive Environment Center. Boston, Massachusetts: Adaptive Environments Center, January, 1996.

AVAILABLE ONLINE AT:

<http://www.homemods.org/library/pages/conguide.html>

MOST RECENT AVAILABLE FROM: Adaptive Environments, 374 Congress Street, Suite #301, Boston, MA 02240, (617)695-1225

This workbook is designed to serve as an assessment and evaluation tool, planning and construction guide, and resource handbook for adapting the environment to physical limitations. Information relating to financing, service programs, and products is also included.

Gerontologic Environmental Modifications

AVAILABLE ONLINE AT:

http://www.cornellaging.org/gem/assessments_index.html

This website contains comprehensive home safety assessment protocols for multi-room and studio apartments. The protocols cover a broad range of environmental features, including accessibility, furniture, flooring and lighting.

Home Safety Guide for Older People: Check It Out, Fix It Up. Pynoos, Jon, Evelyn Cohen, Claire Lucas, and Linda Davis. Los Angeles: Long Term Care Gerontology Center of UCLA/USC, 1986.

AVAILABLE FROM: Serif Press, Inc., 1331 H. Street North West, Washington, D.C. 20005, (202) 737-4650. (Price: \$13.95).

This booklet is designed for use by older persons and professionals to assess hazards contributing to accidents in the home as well as features that may limit

functioning. A room-by-room inventory alerts the person to possibilities for modifications that can make the home an easier place to perform daily living activities.

Home-Safe-Home™. Brent, R.S. and E.E. Brent. Columbia, Missouri: The Idea Works, 1988.

AVAILABLE FROM: The Idea Works, 607 Jackson Street, Columbia, Missouri 65203, (314) 875-5827 (Price: \$149.95).

Home-Safe-Home™ is a computer software package for assessing housing deficiencies faced by elderly clients. The program is designed to assist professionals in making a home assessment, the results of which are then translated into suggestions for modifications related to functioning and safety.

How Well Does Your Home Meet Your Needs? American Association of Retired Persons. 1996.

AVAILABLE AT: <http://www.homemods.org/library/needs.html>

FOR A FREE COPY: write to AARP Fulfillment, 601 E Street NW, Washington D.C. 20049

This checklist has convenient, easy-to-answer questions for each room/area of the house that assess the comfort and accessibility of the home. In addition, it includes a list of helpful ideas for improvement that enhance comfort, safety, and independence, such as the appropriate height of electrical outlets from the floor, non-skid surfaces for bathtub and shower floor and much more.

Maintaining Seniors' Independence: A Guide to Home Adaptations. Trickey, F., Maltais, D., Robitaille, Y. Canada Mortgage and Housing Public Affairs Centre, 1989.

This guide to home adaptations can be used to assist professionals and older adult consumers to identify hazards in the home environment, and maintain independence. It provides a user's guide to the assessment tool, as well as the actual assessment instrument.

Perfect Fit, The: Creative Ideas for A Safe and Livable Home. Pynoos, Jon and Evelyn Cohen. Washington D.C.: American Association of Retired Persons, 1992.

This AARP publication provides information and ideas for homeowners on making the home safe and livable. Checklists are provided along with product information and resources concerning adaptable devices and accessibility product. The booklet includes six "site visits" to the homes of older adults and examines the location of

furnishings, lighting, and interior and exterior design. Suggestions are made on how to enhance the safety of the home while maintaining independence and comfort.

“Preventing Falls: Home Hazard Checklists to Help Older Patients Protect Themselves.” Tideiksaar, Rein. Geriatrics, 41:5, (May 1986), 26-28.

This home hazard checklist can be used to help identify possible hazards typically found in the home, and offers solutions to correct these problems.

SAFER Tool, The. Community Occupational Therapists and Associates (COTA). Toronto, Ontario: Community Occupational Therapists and Associates, 1991.

AVAILABLE FROM: COTA 3101 Bathurst ST., Suite 200, Toronto, Ontario MGA 2A6, (416) 785-8797 (416) 785-9358 Fax. (Price {Canadian Dollar}: \$75.00).


















The Safety Assessment of Function and the Environment for Rehabilitation (SAFER) Tool was developed by COTA to provide occupational therapists with a comprehensive, consistent measure to assess the ability of clients to safely perform tasks in their home.














Safety for Older Consumers: Home Safety Checklist. U.S. Consumer Product Safety Commission. June 1996.














AVAILABLE AT: <http://www.homemods.org/library/pages/safety.html>

AVAILABLE FROM: Office of Information and Public Affairs, U.S. Consumer Product Safety Commission, Washington, D.C. 20207, (301) 504-0500 (Price: Free).

This checklist is organized by sections of the home, with questions regarding essential safety issues of the home. By answering “yes” or “no” to each question, one can assess the degree of safety in their home. This safety list also serves as a reminder for safe practices, as there are recommendations at the end of each section suggesting actions to ensure a safe environment at home.

Audio/Visual: Title Producer	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Accessibility Comes Home Ryerson Communications						
Accessible Home Modification Slide Show and Script The Center for Universal Design						
Building and Remodeling for Accessibility Hometime						
Building Better Neighborhoods Concrete Change						
Changing Needs, Changing Homes: Adapting Your Home to Fit You AOTA						
Creating a Supportive Environment in Adult Day Care Centers National Resource and Policy Center on Housing and Long Term Care						
Crossing the Line ADAptations						
Design for Living National Council on Aging (NCOA)						

Audio/Visual: Title Producer	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Designing Accessible Environments Center of Inclusive Design and Environmental Access						
Home Care Companion, The Healing Arts Communications Production						
Home For All Ages, A Iowa State University						
Home Safe Home Injury Prevention Center						
House for All Children, A Center for Architecture and Building Science Research						
Hyperhome Resource, The Center for Assistive Technology						
Maintaining Seniors' Independence Through Home Adaptations Canada Mortgage and Housing Corporation						
Model Home Stein Gerontological Institute						

Audio/Visual: Title Producer	General Information	Assessment	Financing	Product/ Program	Program Development	Research/ Education
Right at Home: Rights of People with Disabilities Under the Fair Housing Act Access Video Fund						
Staying Home South East Baltimore Housing Initiative						
Staying On: Living at Home Safely Queensland Health						
Test Driving a Building Center for Assistive Technology						
Tips for Building Modular Ramps and Steps Metropolitan Center for Independent Living						
Vision of Independence, A Atlanta Research and Education Foundation						
Why Move? Improve! Lifelong Comfort in your Home American Association of Retired Persons						

ANNOTATIONS FOR AUDIO/VISUALS

Accessibility Comes Home. Roanoke, Virginia: Ryerson Communications, Inc., 2001.

AVAILABLE FROM: Ryerson Communications Inc., 5616 Village Way, Roanoke, Virginia 24014, (540) 725-1866 phone, (540) 725-1867 fax. Email: vidkid52@home.com

This video details the significant impact that Creative Housing Inc. has made on the lives of individuals with disabilities in the state of Ohio. Creative Housing Inc. has allowed individuals to stay in their homes by developing and implementing home modification plans. Unfortunately, individuals with disabilities may be institutionalized solely because of their inability to freely move around in their home environments. This video questions the impulse to institutionalize individuals with disabilities when it is 75% cheaper and much more desirable for them to remain in their own homes using environmental modifications.

Accessible Home Modifications Slide Show and Script. Center for Universal Design.

AVAILABLE FROM: The Center for Universal Design, North Carolina State University, Box 8613, Raleigh, NC 27695-8613, (800) 647-6777 (Price: \$75.00).

This slide show on home modification is intended to provide information about accessible home modifications and products. Many of the modifications shown emphasize the use of universal design features that benefit individuals of all ages. The packet consists of a 3-ring binder with a script and 80 slides in sleeves.

Building and Remodeling for Accessibility. Hometime. Chaska, Minnesota: Hometime, 1993.

AVAILABLE FROM: Hometime, 4275 Norex Drive, Chaska, Minnesota 55318, (612) 448-3812 (Price: \$11.95 plus \$3.50 S&H).

This video provides information on the construction of ramps to enhance accessibility to the home for elders and people with disabilities. Feasibility, mobility, and economic issues are discussed as well as step-by-step instructions on how to build an accessible ramp. Also included in the video are suggested renovations to kitchens and baths, the disadvantages associated with standard doorways, and ways to make the home into a safe and comfortable environment.

Building Better Neighborhoods. Concrete Change. Atlanta, Georgia: Concrete Change, 1994.

AVAILABLE FROM: Concrete Change, 1371 Metropolitan Ave. SE, Atlanta, GA 30316, (404) 378-7455 (Price: \$24.00).

This video discusses the work of Concrete Change, an organization that educates individuals and community groups about the importance of incorporating universal design techniques into building projects. Universal design is defined as designing that is accessible to every individual regardless of age or physical disability. The video devotes extensive time to illustrating the development and construction of non-step entrance ways. The existence of such entrances is meant to provide individuals with accessibility and comfort.

Changing Needs, Changing Homes: Adapting Your Home to Fit You. American Occupational Therapy Association, Inc. (AOTA). ATOF/ AOTA/ RRF Home Mod Project, 1996.

AVAILABLE FROM: AOTA, Bethesda, MD (877) 404-2682; Item #8059, \$35.00, S/H \$6.00

This video provides a good overview of the home modification process and shows how home modifications can promote independent living. Individuals shown in the video were provided with assistance and assessment of their homes by professionals such as remodelers, physical therapists and occupational therapists. Examples of home modifications include ramps, grab bars, and bathroom adaptations for wheelchair accessibility. Both older adults and individuals with disabilities are presented in the video, along with helpful modification suggestions for viewers.

Creating a Supportive Environment in Adult Day Care Centers. National Resource and Policy Center on Housing and Long Term Care. Los Angeles, California: National Resource and Policy Center on Housing and Long Term Care, 1989.

AVAILABLE FROM: National Resource Center on Supportive Housing and Home Modification, University of Southern California, Los Angeles, CA 900889-0191, (213) 740-1364, (213) 740-7069 (Fax) (Price: \$102.50, includes S/H).

This slide show and workshop presentation presents guidelines to assist in evaluating the environment of adult day care centers. It includes information on creating a more supportive environment to enhance the behavior and functioning of clients in adult day care settings.

Crossing the Line. Bellevue, Washington: ADaptations Inc., 1998.

AVAILABLE FROM: ADaptations Inc., 227 Bellevue Way NE #694, Bellevue, WA 98004-5721, (425) 746-2227 or 1-877-746-2227 phone, (425) 644-1117 fax, www.adaptationsinc.com

Structural and social barriers often isolate individuals with disabilities from mainstream society. Proactive design planning that is sensitive to the needs of

individuals with disabilities could help erase some of these barriers. As one in five Americans has a physical, sensory, or cognitive disability, it is significant that public and private space be designed for everyone.

Design for Living. National Council on Aging. Washington D.C.: National Council on Aging, 1992.

AVAILABLE FROM: National Council on Aging, Publications Dept., Washington, DC 20061-5087, (800) 424-9046 (Price: \$15.00 plus \$2.00 S&H).

This video demonstrates the adaptability and accessibility that can be achieved within the home of an older or disabled individual. It examines a model housing unit in Chino, California that incorporated innovative technologies and design concepts which were meant to provide safe and comfortable living conditions for the older residents. Designers as well as the homes' occupants discuss the advantages associated with devices in the home.

Designing Accessible Environments. Center for Inclusive Design and Environmental Access. Buffalo, New York: University at Buffalo School of Architecture and Planning, 1995.

AVAILABLE FROM: Center of Assistive Technology/ UB Products, 515 Kimball Tower, University at Buffalo, Buffalo, NY 14214-3079, 1995. (716) 829-3141. (Price: \$50.00).

This computer software teaches the basics of accessible design by means of a series of exercises and problems. Accessibility issues are identified by evaluating alternative design. The program includes public space design, residential design, site planning and building products.

Home Care Companion: Volume 5, Fall Prevention. Jacksonville, Oregon: Healing Arts Communications Production.

AVAILABLE FROM: Healing Arts Communications Production, P.O. Box 1440, Jacksonville, Oregon 97530, 1-888-846-7008.

The fear of falling can have a detrimental impact on the emotional and social well being of older individuals. Fear and anxiety associated with falling may lead to the loss of independence and withdrawal from social activity. This video outlines some guidelines for falls prevention like identifying hazards in the home, monitoring medications, and using assistive devices correctly. Tips are also provided to reduce the falls risk of caregivers.

Home For All Ages, A. Iowa State University. Ames, Iowa: Iowa State University, 1997.

AVAILABLE FROM: Iowa State University, Department of Human Development and Family Studies, 62 LeBaron Hall, Ames, IA 50011, (515) 294_8520; Email: yearns@iastate.edu (Price: \$15.00).

This video prepares volunteers to staff the "Home for All Ages" educational exhibit that has been developed by Extension Specialists at Iowa State University. The 40-foot long display includes a living room, kitchen, and bathroom. Design features and assistive devices that make a home more convenient and comfortable for people of all ages and all abilities are demonstrated in each room. Special features include an electronic faucet and toilet seat lifter in the bathroom, seated work area in the kitchen, and environmental control unit in the living room.

Home Safe Home. Injury Prevention Center. Baltimore, Maryland: Johns Hopkins University, 1991.

AVAILABLE FROM: Injury Prevention Center, Johns Hopkins University, Baltimore, Maryland, (410) 887-2738 (Price: \$40.00 plus \$4.60 S&H. Phone orders accepted).

This video provides information on the construction of more accessible housing units for older adults and persons with disabilities. It focuses on ways to enhance wheelchair accessibility, lower fixtures within the home to provide greater comfort, and reduce the risk of accidental injury. The video examines the kitchen, bedroom, and bathroom, and provides suggestions on ways to enhance functional ability in each room.

House for All Children, A. Newark, New Jersey: Center for Architecture and Building Science Research, New Jersey Institute of Technology, 2000.

AVAILABLE FROM: Center for Architecture and Building Science Research, New Jersey Institute of Technology, University Heights, Newark, New Jersey 07102-1982, (973) 596-3097

This video focuses on six families that have modified homes for their children with disabilities. The modifications to the homes include: entry ramps, larger bathrooms, wider hallways, remote controlled doors, rocker switches, level door handles, pocket doors, and sensor operated sinks. Families attest to the significant impact of home modifications in promoting independence and increasing self-esteem in their children.

Hyperhome Resource, The. Center for Assistive Technology. Buffalo, New York: Center for Assistive Technology, 1993.

AVAILABLE FROM: Center for Assistive Technology/ UB Products, 515 Kimball Tower, University at Buffalo, Buffalo, NY 14214-3079, (716) 829-3141 (Price: \$15.00)

This video demonstrates a database program developed at the Adaptive Environments Lab in the Center for Assistive Technology at the University at Buffalo. The program assists professionals with providing home modification services to older persons with disabilities.

Maintaining Seniors' Independence Through Home Adaptations. Canada Mortgage and Housing Corporation. Ottawa, Ontario, Canada: Canada Mortgage and Housing Corporation, 1990.

AVAILABLE FROM: Canada Mortgage and Housing Corporation, 700 Montreal Road, Ottawa, Ontario, KIA 0P7, Canada (614) 748-2000 (Price: \$10.65) Call (416) 282-2950 to order.

This video outlines strategies to improve the physical layout of the home as a means of maintaining independence and enhancing safety. Included in the video are suggestions to reduce accidents like: rearranging furniture; modifying household design; controlling water temperature; improving light fixtures; lowering counters; and changing electrical outlets.

Model Home. Miami, Florida: Paradise Video & Film.

AVAILABLE FROM: Stein Gerontological Institute—Model Home Video, Miami Jewish Home and Hospital for the Aged, 5200 NE 2nd Ave., Miami, FL 33137, (305) 762-1465 or 800-322-7881

The Model Home was developed by the Stein Gerontological Institute, which is part of the Miami Jewish Home and Hospital for the Aged. The Model Home serves as an example of barrier free design and assistive technology for the community. Individuals can test innovative products and devices inside of the Model Home before deciding to purchase them.

Right at Home: Rights of People with Disabilities Under the Fair Housing Act. Washington D.C.: The Access Video Fund.

AVAILABLE FROM: The Access Video Fund, 4400 MacArthur Blvd. NW., Suite 100, Washington D.C. 20007.

“Right at Home” emphasizes the necessity of enforcing the Fair Housing Act in the community. The Fair Housing Act prohibits discrimination in the sale, leasing, or rental of housing. The act also allows for reasonable accommodations for

individuals with disabilities, such as a handicapped parking space. Apartment renters must also be allowed to make modifications to their residences so that they are accessible and usable. This video stresses the importance of educating real estate professionals, apartment managers, and the general public so that individuals with disabilities can live comfortably in the community.

Staying Home: Ways for Older Americans to Make Their Homes Fit Their Changing Needs. South East Baltimore Housing Initiative. Baltimore, Maryland: South East Baltimore Housing Initiative, 1990.

AVAILABLE FROM: South East Senior Housing Initiative, 10 South Wolfe Street, Baltimore, MD 21231, (410) 327-6193 (Price: \$25.00).

Older residents of Southeast Baltimore like older residents everywhere, want to remain in their own homes as long as possible. Traditional housing designs, however, are often ill suited to meet the needs of older adults. This video is intended to show older residents, their families, and their advocates how home modification can enhance one's safety and independence.

Staying On: Living at Home Safely. Queensland Health. Brisbane, Queensland, Australia: Queensland Health, 1992.

AVAILABLE FROM: EMA, Melvin, Australia. Contact Gary Peters @ (011-61-3-699-7144. (Price: \$135.00).

This video provides strategies to adjust the way an individual lives in order to meet the changing circumstances brought on by age or disability. Information is provided on enhancing home safety by keeping electrical wires and cords covered, painting edges of stairs, providing sufficient home lighting, and installing proper equipment for showers.

Test Driving a Building. Center for Assistive Technology. Buffalo, New York: Center for Assistive Technology, 1993.

AVAILABLE FROM: Center for Assistive Technology / UB Products, 515 Kimball Tower, University at Buffalo, Buffalo, NY 14214-3079, (716) 829-3141 (Price: \$5.00)

This video demonstrates a full-scale modeling system that allows professionals to evaluate room designs and assistive devices before purchasing them or actual construction occurs by stimulating the design of specially adapted rooms and facilities. The model allows therapists, clients, and architects to evaluate possible room designs for accessibility purposes.

Tips for Building Modular Ramps and Steps. St. Paul, Minnesota: Metropolitan Center for Independent Living (MCIL, Inc.), 1996.

AVAILABLE FROM: MCIL, Inc., 1600 University Ave., W., Suite 16, St. Paul, Minnesota 55104, (651) 646-8342, www.wheelchairramp.org/#videos

This video is a supplement to the “How to Build Ramps for Home Accessibility” manual that is available from the Metropolitan Center for Independent Living. The video highlights the positive features of modular ramps, e.g., they are cost efficient and can be reused indefinitely. Low-rise steps are also featured as a valuable modification that can facilitate access in and out of the home for individuals with walkers or for those who prefer stairs over ramps.

Vision of Independence, A. Atlanta Research and Education Foundation. Decatur, Georgia: Atlanta Research and Education Foundation, 1991.

AVAILABLE FROM: Atlanta Research and Education Foundation, 1670 Clairmont Road, Decatur, Georgia 30033, (404) 321-5828 (Price: \$78.00)

This video provides information on various products and devices to enhance the lives of individuals with vision impairments. The video explains the most common causes of vision impairment and provides suggestions on how to adapt the home to overcome such impairments.

Why Move? Improve! Lifelong Comfort in Your Home. American Association of Retired Persons. Washington, D.C.: American Association of Retired Persons, 1996.

AVAILABLE FROM: AARP Consumer Affairs, 601 E Street, N.W., Washington, DC 20049, (202)434-6030 (PRICE: \$4.50 S&H only).

This video presents the concept of home modifications as a way of adapting home environments to changing physical needs. Several individuals shown in the video had their homes modified to provide not only better accessibility but also increasing options for future flexibility as they age. Ten easy examples of home modifications are presented, including installing grab bars, ramps, adjustable countertops, and adding a first floor bedroom or bathroom. Individuals shown in the video include young couples who built their own home with future needs for accessibility in mind; individuals who had recent surgeries which presented physical difficulties; and older adults who had difficulty climbing stairs in their homes. The individuals shown in the video had both environmental and physical assessments by trained professionals to determine the type and extent of home modifications they required. These ideas are presented in a clear, straightforward manner, and include a telephone number for further information and assistance from AARP.

JOURNALS / NEWSLETTERS

These journals and newsletters periodically feature articles and general information on home modifications.

1. AARP HOUSING REPORT
Department of Consumer Affairs/ Program Department
601 E Street, NW
Washington, DC 20049
(202) 434-2277
Free / bimonthly
2. ACCENT LIVING SYSTEMS UPDATE
Promatura Group
142 Highway 30 East
Oxford, MS 38655
(662) 234-0158
Subscription free upon request
3. ACCENT ON LIVING MAGAZINE
Accent on Living, Inc.
P.O. Box 700
Bloomington, IL 61702-0700
(800) 787-8444
(309) 378-4420
Fax (309) 378-4420
\$10.00 / annually
4. AGING NETWORK NEWS
P.O. Box 1223
McLean, VA 22101
\$55.00 / annually
5. CARE MANAGEMENT JOURNALS
Springer Publishing Company
536 Broadway
New York, NY 10012-3955
(212) 431-4370
(877) 687-7476
Fax (212) 941-7842
www.springerpub.com
\$58.00 / annually
6. DISABILITIES STUDIES QUARTERLY
(electronic journal)
www.cds.hawaii.edu

7. ELECTRONIC HOUSE
EH Publishing, Inc.
526 Boston Post Road
Suite 150
Wayland, MA 01778-0340
(508) 358-3400
www.electronichouse.com
\$29.95 / annually
8. THE GERONTOLOGIST
The Gerontological Society of America
1030 15th Street, NW, Suite 250
Washington, DC 20005-1503
(202) 842-1275
www.gerontologist.gerontologyjournals.org
9. HOME EQUITY NEWS
National Center for Home Equity Conversion
360 N Robert #403
Saint Paul, MN 55101
(651) 222-6775
Fax (651) 222-6797
Send a self addressed stamped envelope and a list of publications and newsletters will be returned.
10. HOUSING THE ELDERLY REPORT
CD Publications
8204 Fenton Street
Silver Spring, MD 20910-4571
(800) 666-6380
(301) 588-6380
Fax (301) 588-6385
www.cdpublications.com/pubs/housingtheelderly.htm
\$257.00/ annually
11. JOURNAL OF AMERICAN MEDICAL ASSOCIATION
American Medical Association
P.O. Box 10946
Chicago, IL 60610-0946
Phone: 1-800-262-2350/1-312-670-7827
<http://pubs.ama-assn.org/>

12. JOURNAL OF HOUSING FOR THE ELDERLY
The Haworth Press, Inc.
10 Alice Street
Binghamton, NY 13904-1580
(800) HAWORTH
Fax (800) 895-0582
www.haworthpress.com
Individual - \$60.00 / annually; Institutions - \$150.00 / annually

13. QUALIFIED REMODELER
Cygnus Business Media
1233 Janesville Ave.
Fort Atkinson, WI 53538-0803
(800) 547-7377 (subscriptions)
Fax (920) 563-1704

14. REMODELERS MAGAZINE
1 Thomas Circle Northwest
Suite 600
Washington, DC 20005
(202) 736-3309
\$35.00 / annually

15. TECHNOLOGY AND DISABILITY
iRv Institute for Rehabilitation Research
Dr. ir. M. Soede
P.O. Box 192
6430 AD Hoensbroek
The Netherlands
+31 45 523 7500
Fax +31 45 523 1550
www.iospress.com
\$316 / annually (including postage & handling)

16. TOPICS IN GERIATRIC REHABILITATION
Lippincott Williams & Wilkins
P.O. Box 1600
Hagerstown, MD 21740-1600
www.lww.com
\$91.95 / annually

ORGANIZATIONS AND INSTITUTIONS

These organizations and institutions conduct research, provide training and technical assistance, and are available for general information on home modifications and elderly housing.

1. **ADAPTIVE ENVIRONMENTS**

374 Congress Street
Suite #301
Boston, MA 02210
(617) 695-1225
Fax (617) 482-8099
www.adaptenv.org
adaptive@adaptenv.org

The mission of Adaptive Environments, a non-profit organization established in 1978, is to create environments that are accessible to the disabled and elderly. Workshops for public and private non-profit agencies are conducted and publications are also developed and made available to the general public.

2. **AARP (AMERICAN ASSOCIATION OF RETIRED PERSONS)**

601 E Street, NW
Washington, D.C. 20049
(800) 424-3410
(202) 434-6030
Fax (202) 434-6466
www.aarp.org

Founded in 1958, AARP provides middle aged and older persons with an array of membership programs and services. The association produces numerous publications, conducts research, and develops programs related to safety and home modification. (<http://www.aarp.org/confacts/housing/housingoptions.html>)

3. **AMERICAN FOUNDATION FOR THE BLIND**

Headquarters
11 Penn Plaza
Suite #300
New York, NY 10001
(800) 232-5463
(212) 502-7600
www.afb.org

The American Foundation for the Blind is an independent, non-profit national center that conducts research, disseminates information, and evaluates services for the blind and visually impaired. Established in 1921, its mission is to develop maintain,

and improve services and programs for all visually impaired and blind persons in the United States.

4. CENTER FOR ASSISTIVE TECHNOLOGY

322 Stockton Kimball Tower
University at Buffalo
Buffalo, NY 14214-3079
(800) 628-2281
(716) 829-3141
Fax (716) 829-3217
<http://cat.buffalo.edu/>

The Center for Assistive Technology conducts research, education, and service to increase both knowledge and assistive device utility. They also offer a media and publications catalog of videos, workshops, training modules, books, and journals.

5. CENTER FOR INCLUSIVE DESIGN AND ENVIRONMENTAL ACCESS (IDEA)

School of Architecture and Planning - University at Buffalo
Buffalo, New York 14214-3087
(716) 829-3485, ext. 329
Fax (716) 829-3861
idea@ap.buffalo.edu
<http://www.ap.buffalo.edu/idea/indexwelcome.html>

IDEA is dedicated to improving the design of environments and products by making them more usable, safer and appealing to people with a wide range of abilities, throughout their life spans. Originally based on the concepts of accessible or "barrier free" design and normalization, their work has expanded to embrace the concept of universal design, or design of places and products that are usable by and desirable to a broad range of people, including people with disabilities and other often overlooked groups. IDEA provides resources and technical expertise in architecture, product design, facilities management and the social and behavioral sciences to further these agendas.

6. CENTER FOR UNIVERSAL DESIGN

North Carolina State University
College of Design
50 Pullen Road, Brooks Hall, Room 104
Raleigh, NC 27695-8613
(800) 647-6777
Fax (919) 515-7330
cud@ncsu.edu
www.design.ncsu.edu/cud/

Funded by the National Institute on Disability Rehabilitation Research of the U.S.

Department of Education, the Center conducts research and training on architecture, product design, landscape design, financing, zoning, legislation, and social and psychological attitudes related to housing for disabled people. The center serves individuals or organizations requesting technical assistance, training, or referral information from all over the United States.

7. COMMUNITY AND HOMECARE RESEARCH DIVISION (CHORD)

College of Allied Health Sciences
Thomas Jefferson University
130 South 9th Street, Suite #513
Philadelphia, PA 19107
(215) 503-2896
Fax (215) 923-2475
www.tju.edu/jchp/chord/

CHORD conducts research on the effectiveness of community and home-based interventions such as home modifications and assistive devices for individuals with physical and cognitive functional limitations and their caregivers.

8. PROMATURA GROUP

142 Highway 30 East
Oxford, MS 38655
(800) 201-1483
(662) 234-0158
Fax (662) 234-0288
www.promatura.com

ProMatura Group is a private, non-profit corporation that conducts and transfers scientific research into technology for commercial application. The Division of Advanced Living Systems is an interdisciplinary research and development team that provides solutions to meet the changing needs of the aging population. New business opportunities are created through the promotion and development of accessible and efficient environments for the elderly.

9. INTERNATIONAL CENTER FOR THE DISABLED

340 East 24th Street
New York, NY 10010-4019
(212) 585-6000
Fax (212) 585-6161
info@icdrehab.org
www.icdrehab.org

The International Center for the Disabled (ICD) serves the medical community as outpatient rehabilitation resource. It focuses on enhancing the personal functioning and vocational potential of disabled persons through a full-service diagnostic and treatment center. ICD conducts education and training program seminars for

geriatric care workers, develops corporate programs on employee rehabilitation and disability prevention, and engages in a myriad of research and evaluation activities.

- 10. THE LIGHTHOUSE, INC.**
111 East 59th Street
New York, NY 10022-1202
(800) 829-0500
(212) 821-9200
Fax (212) 821-9705
www.lighthouse.org

The Lighthouse, Inc. provides resources, products and information on vision impairment. They conduct regional, national and international programs to enable individuals who have partial sight or who are blind to lead productive lives.

- 11. NATIONAL ASSOCIATION OF HOME BUILDERS RESEARCH CENTER**
Economics and Policy Analysis Division
400 Prince George's Boulevard
Upper Marlboro, MD 20774
(800) 638-8556
(301) 249-4000
Fax (301) 430-6180
www.nahbrc.org

The National Association of Home Builders/ National Research Center (NAHB/NRC) conducts research, holds seminars, and develops training for remodelers on conducting a home safety convenience audit, marketing to clientele with specific needs, and applying innovative design solutions and state-of-the-art products for retrofitting homes. In 1984, NAHB/NRC developed the SMART HOUSE concept. The goal of SMART HOUSE is to develop a new electrical wiring and gas distribution system to enhance safety and security in the home through a "fail-safe" environment for elderly and disabled people.

- 12. NATIONAL ASSOCIATION OF HOME BUILDERS SENIORS HOUSING COUNCIL**
1201 15th Street, NW
Washington, D.C. 20005-2800
(800) 368-5242 ext. 220
(202) 266-8220
Fax (202) 266-8195
www.nahb.org/category.aspx?sectionID=261

The Seniors Housing Council produces publications and programs for builders, architects, and lenders involved in senior housing.

13. NATIONAL COUNCIL ON THE AGING, INCORPORATED

300 D Street, SW, Suite 801
Washington, DC 20024
(202) 479-1200
Fax (202) 479-0735
www.ncoa.org

The National Council on the Aging (NCOA) provides its members, interested individuals, and organizations with up-to-date information on services, programs, and policies in the field of aging. It conducts research, undertakes demonstration programs, and disseminates information on a number of age-related issues, including housing and living arrangements, home modification, and safety and security in the home.

14. NATIONAL RESOURCE CENTER ON SUPPORTIVE HOUSING AND HOME MODIFICATION

Andrus Gerontology Center, University of Southern California
3715 McClintock Ave., #228
Los Angeles, CA 90089-0191
(213) 740-1364
Fax (213) 740-7069
www.homemods.org
www.usc.edu/dept/gero/nrcshhm/

The mission of this Resource Center is to make housing an integral part of long-term care. The Center's purpose is to conduct research, training, and technical assistance and disseminate results to aging and housing networks, consumers, practitioners, policymakers, and researchers. The Center is supported by The Archstone Foundation and The California Endowment.

15. U.S. Access Board

1331 F Street, NW
Suite 1000
Washington, DC 20004-1111
(800) 872-2253
(202) 272-0080
Fax (202) 272-0081
www.access-board.gov

The Board provides technical assistance through the distribution of technical information to people with disabilities, and to federal and state agencies. Research activities focus on transportation, housing, recreation, and urban centers. It establishes guidelines and requirements for accessibility, engages in public outreach, and coordinates federally sponsored research on design.
