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Professional Experience

President and Building Scientist, Environmental Building Sciences, Inc.

September 1989 to Present

Responsibilities typically involve administrative and technical/scientific oversight for field and laboratory-based research and investigations of indoor environmental quality (IEQ) and building energy, instruction at indoor environmental quality and radon workshops, and design and installation of radon control measures. Specific duties include: consult on IEQ, radon, and energy problems; conduct IEQ, radon, and energy research; conduct assessments of building-related IEQ hazards; develop recommendations for corrective action; provide expert testimony on IEQ-related problems and defects; design and conduct experiments; coordinate with building owners and managers, homeowners, subcontractors, local, state and federal agencies; coordinate and participate in data analysis and preparation of written and oral reports; design and install radon control systems for buildings with elevated radon levels; develop IEQ curricula and conduct workshops. Examples of work experience:

- Contribute to development of survey protocols and measurement tools, and assessment and design strategies for mitigation of radon for a project to identify and correct radon problems in Bureau of Indian Affairs schools.
- Perform air leakage tests and assessments on large, single- and multi-story, institutional buildings following ASTM, USACE, and ASHRAE testing protocols.
- Author a review of current and alternative radon mitigation strategies for the U.S. EPA's Indoor Environments Division.
- Conduct radon measurements and surveys, and install radon control systems in a wide variety of commercial, institutional, and residential buildings for private and governmental clients.
- Participate in ASHRAE research project to measure the air-tightness of recently constructed mid- and high-rise non-residential buildings to evaluate and advance testing protocols, and to collect data on building leakage characteristics.
- Prepare guidance and summarize resources on wildfires and dust storm for U.S. EPA's project on emergency indoor air quality preparedness.
- Collaborate with University of Tulsa and Illinois Institute of Technology on a project to relate academic performance with ventilation rates in classrooms, by applying novel analytical procedures to ventilation measurements.
- Assist State of New Mexico in assessing and responding to indoor radon problems in state buildings and facilities.
- Principal Investigator for U.S. EPA-sponsored Moisture Radon Study to investigate the ability of ASD mitigation systems to reduce indoor moisture and biocontaminant levels while controlling radon. Develop and guide research, create new measurement procedures, and provide overall project management.

- Provide commercial services to measure indoor radon levels and install mitigation systems to reduce elevated levels.
- Develop IEQ assessment protocols and conduct assessments in schools as part of the NM Department of Health's CDC-sponsored Asthma Program.
- Manager of U.S. EPA Region 6 project to develop total environment assessment protocols and tools for settings where children spend most of their time: homes, day care, and schools (H.E.L.P. for Kids). Included extensive collaboration among national experts and local agencies and organizations, and development and piloting of separate training modules for each of the settings.
- Participate in a 3-year, HUD-sponsored project to evaluate H.E.L.P. for Kids environmental assessment tools in 60 Laredo, TX border homes. Develop research and assessment protocols, along with training modules for health professionals.
- Collaborate in U.S. EPA project to improve outdoor air ventilation rates in schools while lowering energy costs through the use of energy recovery ventilation systems. Two software-based screening tools were created to assist school designers and engineers in evaluating the economic and humidity control benefits of these systems.
- Collaborate with the U.S. EPA on a GSA-sponsored investigation of elevated radon in an underground document storage facility for government documents. The investigation in this converted limestone mine included measurements of radon in air and radon emanation from mine wall surfaces, measurements of air flow and pressure, and development of remediation guidance.
- Under sponsorship of the U.S. EPA Office of Radiation and Indoor Air, perform as lead investigator for the study of indoor air quality improvement and radon control in Las Vegas, Nevada and Santa Fe, NM schools.
- Project leader for the U.S. EPA's project on radon measurement and diagnostics in large commercial buildings: moderated workgroup, performed field evaluations, and drafted and finalized protocols.
- Collaborate with T. Brennan and NIOSH on microbial investigation of Santa Fe Public Library.
- Project field leader for a Lawrence Berkeley National Laboratory survey of indoor radon levels in 1000 randomly-selected Minnesota homes. Included coordination with LBNL and the Minnesota Dept. of Health to contact occupants, send and retrieve detectors, perform calibrations, and participate in data processing and analysis.
- Co-principal investigator with the New Mexico Institute of Mining and Technology in research on radon and thoron entry and control in residences in the Rocky Mountain Southwest.
- Research team leader for a U.S. EPA and Auburn University project to investigate the impact of karst geology on the behavior and measurement of indoor radon, and to develop revised mitigation techniques for karst areas. Included statistical assessments and participation in a workshop of radon experts.
- Leader of pilot field surveys, supported by the U.S. EPA and the All Indian Pueblo Council, of indoor air quality in a local Indian School, and of radon and combustion-related pollutants in Pueblo Indian dwellings.
- Collaborate on U.S. EPA's School Evaluation Project to study ventilation and IEQ issues (such as microbial, VOC, and particles) in schools across the U.S.
- Lead and participate in IEQ investigations of residential, commercial, museums, institutional, and industrial buildings including assessments of microbial, particle, chemical, radiological, and other pollutant contamination. Clients include federal, state, local, and tribal governments and agencies, and building owners, property and building managers, tenants, banks, and insurance companies.

- Develop and conduct IEQ and radon training for builders, realtors, occupants, property managers and owners, maintenance and operations personnel, childcare professionals, and government agencies in NM and nationwide.
- Consult with engineers, architects, and designers on IEQ, ventilation, and energy efficiency issues during design and construction for residential, commercial, and institutional structures – including both new construction and renovation.
- Contributor to numerous publications, and instructor of courses on indoor air quality and radon, including U.S. EPA's "H.E.L.P. for Kids," "Indoor Air Quality Tools for Schools," "Orientation to Indoor Air Quality," "Building Air Quality," "Hands-on IAQ Diagnostics," "Reducing Radon in Structures," "Radon Resistant New Construction," "Radon in Real Estate," "Building Radon Out," "Reducing Radon in Schools", and "Radon Reduction Techniques for Existing Detached Houses: Technical Guidance."
- Construction manager and general contractor for several medium-sized residential projects, totaling approximately \$750,000.
- Collaborators on projects have included R. Shaughnessy, T. Brennan, W. Turner, R. Prill, H. Ammann, E. Levitin, W. Fisk, R. Sextro, A. Nero, A. Hodgson, D. Grimsrud, and other national IEQ experts.

Staff Scientist, Lawrence Berkeley Laboratory, Indoor Environment Department

October 1983 to September 1989

Responsibilities included providing administrative and scientific oversight, and furnishing scientific and technical guidance to collaborating laboratories and universities.

- Project leader of 4 separate indoor air quality field studies in over 200 residences, and 38 schools and commercial buildings. Studies included measurements and analysis of indoor CO, CO₂, NO₂, water vapor, RSP, and PAH; and determination of ventilation rates using tracer gases and blower door leakage areas.
- Project leader of field studies focused on comprehensive investigations of radon movement and entry, and radon control techniques in homes in the Pacific Northwest and New Jersey. Included ground-breaking research and demonstrations into radon behavior, radon measurement and diagnostics, and innovative mitigation techniques.

Building Science Consultant

January 1978 to October 1983

Work included measurements of indoor air quality, ventilation rates, and thermal transfer, and evaluations of the environmental and economic impact.

- Perform energy and environmental studies of buildings for private companies, public agencies, and other clients.
- Performed as project leader for DOE-supported study of IAQ and energy in five cities nationwide.

Technical Coordinator, El Paso County, CO.

September 1978 to January 1981.

- Supervised local testing and experimental procedures as part of a field study into the effects of weatherization on energy consumption in low-income housing. Sponsored by National Bureau of Standards (NIST).

Industrial Engineer. CF&I Steel Corporation, Pueblo, CO.

June 1974 to August 1977.

Engineer responsible for improving production efficiency and replacing mobile equipment throughout an integrated steel-making facility.

Professional Societies, Activities, and Certifications

- Member of American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE).
- Member of International Society of Indoor Air Quality and Climate
- Member of American Association of Radon Scientists and Technologists (AARST)
- Member of ASHRAE 90.1 adoption recommendation committee for State of New Mexico.
- Member of ventilation and indoor air quality advisory board to Metropolitan Airport Commission in Minneapolis/St. Paul.
- Reviewer of the EPA's "Residential Indoor Air Formaldehyde Testing Program: Pilot Study, Final Report".
- Reviewer of ozone chamber and field study experiments for the Northwest Air Pollution Authority
- Reviewer of manuscripts for *Indoor Air*, as well as various research proposals, EPA publications, technical reports, and guidance and training documents on IAQ and radon.
- Participant in EPA Radon Research Planning meetings
- Workshop co-chair for the Health Buildings/IAQ '97 Conference held in Washington DC, September 27 - October 2, 1997.
- Participate in Expert Panel planning meeting for EPA's Radiation and Indoor Environments National Laboratory.
- Participate in EPA Expert Panel and review meetings regarding possible revisions to radon measurement protocols in karst regions, from 1999 – present.
- Workshop participant on Cause and Prevention of "Sick Building" Problems in Offices: The Experience of IEQ Investigators, Lawrence Berkeley National Laboratory, May 26-27, 2004
- Discussion leader for panel of experts on the moisture-reducing capability of ASD mitigation systems: Radon Moisture Study Design Meeting
- Participant in the NM Department of Health Asthma Coalition and Occupational Asthma Workgroups
- Member of Washington State School Environmental Assessment Technical Advisory Committee
- Member of IAQ Expert Group Meetings, University of MN, 2000 – 2001.
- Building Performance Institute (BPI)-certified Building Analyst Professional
- BPI-certified Envelope Professional
- National Radon Proficiency Program (NRPP) certifications for measurement (#107360) and mitigation (#107361)
- Participate in "Beyond Residential Testing" training development with other building science and large building air leakage test professionals, October 22-24, 2013.

Education

B.A. Physics, Colorado College, 1974

Selected Presentations and Editorials

Presentation to Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate, “Altered Air Flow and Ventilation Caused by Operation of Radon Control Systems,” International Society of Indoor Air Quality, Austin, TX, June 8, 2011.

Presentation to Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate, “Comparing CO₂ Tracer Techniques for Estimating Ventilation Rates in Classrooms,” International Society of Indoor Air Quality, Austin, TX, June 8, 2011.

Conduct seminar for Maine Indoor Air Quality Conference on “Building Diagnostics: How Buildings Work, and Investigating Them When They Don't”, Maine Indoor Air Quality Council, Augusta, ME, March 22, 2011.

Presentation to Maine Indoor Air Quality Conference on “A Building Scientist Builds His Own Home”, Maine Indoor Air Quality Council, Augusta, ME, March 23, 2011.

Co-presenter with Richard Shaughnessy, Harriett Ammann, Phillip Morey: “Indoor Environmental Quality and Mold Assessment Workshop,” private client, Tampa, Florida, 2010-2011.

Presented Workshop on “New Mexico Radon Mitigation Issues”, Santa Fe Community College, September 30, 2010.

Presented a Series of Workshops on “Child Care Home Environmental Review: Hazards and Protection Strategies”, Santa Fe Community College, 2007-2010.

Presented a Series of Workshops on “Child Care Home Environmental Review: Hazards and Protection Strategies”, Santa Fe Community College, 2007-2010.

Presentation to the American Institute of Architects, “Radon is in the Air: Now What?”, Santa Fe, NM, February, 2009.

Presentation at the ACI Home Performance Conference, Insulation - Sorting Out the Options – “Insulation Options - Reviewing the Basics”, Kansas City, MO, April 29, 2009.

Presentation at the ACI Home Performance Conference, Basement Insulation – “Foundation Insulation: How Does It Work – or Not?”, Kansas City, MO, April 29, 2009.

Presentation at Asbestos, Lead, Radon, and Indoor Air Quality: A Seminar for Tribal Schools, “Indoor Air Quality Management and ‘Tools for Schools’”, Albuquerque, NM, April 2, 2009.

Presented a Series of Workshops on “Radon in Real Estate”, Santa Fe Community College, 2005-2009.

Presented a Series of Workshops on “Radon-Resistant New Construction”, Santa Fe Community College, 2008-2009.

Presentation at the ACI Home Performance Conference, Wet Basements and Radon: Common Solutions – “Moisture Impacts of ASD Radon Mitigation”, Pittsburgh, PA, April 8, 2008

Presentation to National Healthy Homes Conference, “Exploratory Research: Moisture Control with Radon Mitigation”, Baltimore, MD, September 15-17, 2008.

Presentation to EPA Indoor Environmental Health Workshop, “Exploratory Research: Moisture Control with Radon Mitigation,” Seattle, WA, November 18, 2008

Presentation to IAQ 2007 Conference, “Moisture Impacts of ASD Radon Mitigation”, ASHRAE, Baltimore, MD, October 16, 2007.

Presentation to Center for Indoor Air Quality Meeting, “Moisture Impacts of ASD Radon Mitigation”, Federal Agencies, Washington, DC, October 17, 2007.

Presentation to Mold in New Mexico?, “Below Your Feet – Moisture, odors, and other problems associated with slab-on-grade, basement and crawlspace foundations”, Indoor Air Quality Association, Santa Fe, NM July 11, 2007

Co-Presenter of Workshops on “The Radon Measurement Operators Course”, Southern Regional Radon Training Center, Auburn University, Auburn, Alabama, June, 2005-2007.

Co-Presenter of Workshops on “Radon Technology for Mitigators”, Southern Regional Radon Training Center, Auburn University, Auburn, Alabama, June, 2005-2007.

Shaughnessy, R.J., Turk, B.H. June (2007). “Snake Oil or Good Science?”, editorial to Indoor Environments Connection, Rockville, MD.

Presented Workshop on “Radon-Resistant New Construction”, Jicarilla Apache Nation, Chama, NM, June 7, 2006.

Presented of a Series of Workshops on “Introduction to Environmental Quality in Buildings for Government and Community Agencies”, Santa Fe Community College, 2006

Presented of a Series of Workshops on “Introduction to Environmental Quality in Buildings for Realtors and Contractors”, Santa Fe Community College, 2006

Presentation at the 16th National Radon Conference, “U.S. EPA Radon and Moisture Study: An Update”, CRCPD/AARST, Kansas City, MO, September 17, 2006

Presentation at the ACI Home Performance Conference, Reducing Moisture and Radon: Sub-slab Depressurization – “Impact of Active Soil Depressurization (ASD) Radon Control Systems on Basement Moisture”, Austin, TX, May 26, 2006.

Presented a Series of Workshops on “Radon-Resistant New Construction”, Southern Regional Radon Training Center, Auburn University, Auburn, Alabama, 2000-2005.

Presentation at the 15th National Radon Conference, “EPA Moisture/Radon Project: Scientific and Technical Review”, CRCPD/AARST, San Diego, CA, September 2005

Co-presenter of Workshop for State of Hawaii on “Indoor Air Quality Overview & Home Assessment,” May, 2004.

Co-Presenter of Workshop for Intertribal Council of Arizona on “Introduction to Indoor Air Quality for Schools,” Washington State University Cooperative Extension, Kayenta, AZ, September, 2003.

Co-Presenter of Workshop for Intertribal Council of Arizona on “Orientation to Indoor Air Quality,” Washington State University Cooperative Extension, Phoenix, AZ, May, 2003.

Co-presenter of Workshop for Institute for Child & Family Studies at Texas Tech University on “Environmental Reviews for Head Start Facilities,” Lubbock, TX, January, 2003.

Presentation at ECOS: Toward an Action Agenda on Strategies to Reduce Environmental Factors that Affect Asthma in Children on “How Environmental Factors In & Around Schools Contribute to Childhood Asthma,” Indianapolis, IN, September 18-20, 2002.

Co-Presenter of Workshops on “Radon Resistant New Construction for Large Buildings”, Southern Regional Radon Training Center, Auburn University, Auburn, Alabama, June, 2001.

Presentation at Building Expectations 2001 Conference on “Sick Buildings,” Energy Center of Wisconsin, Green Bay, Wisconsin, April, 2001.

Presentation at Building Expectations 2001 Conference on “Indoor air Quality,” Energy Center of Wisconsin, Green Bay, Wisconsin, April, 2001.

Co-Presenter of Workshop for State of Alaska on “Orientation to Indoor Air Quality,” Washington State University Cooperative Extension, Anchorage, AK, September, 1997.

Presentation at to the Annual Conference of the Employee Relocation Council on “Radon Monitoring and Mitigation,” San Diego, CA, 1988.

Presentation at the Annual Conference of the Energy Business Association on “Residential Structure Ventilation,” Tacoma, WA, 1988.

Presentation at Illinois Department of Nuclear Safety Conference, Radium and Natural Radioactivity, “Effective Monitoring Procedures,” Chicago, IL, March 10-11, 1987.

Presentation at the ASHRAE Annual Meeting on “Indoor Air Quality in Weatherized Homes,” Portland, OR, June 22-25, 1986.

Publications

- Hänninen, O., Shaughnessy, R., Turk, B., Egorov, A. (2012). "Evaluation of Ventilation Rates in European Schools using CO₂ Measurements as Part of a Proposed WHO School Survey." In *Proceedings of Healthy Buildings 2012, 10th International Conference*, International Society of Indoor Air Quality and Climate, Brisbane, Australia.
- Turk, B.H. (2012). "Indoor Radon Control: A Review of Current and Alternative Mitigation Strategies." Cadmus Group contractor report to U.S. EPA Indoor Environments Division, Office of Radiation and Indoor Air, Washington, D.C.
- Turk, B.H., Hughes, J. (2011). "Altered Air Flow and Ventilation Caused by Operation of Radon Control Systems." *Proceedings of Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate*, Paper a1022_2, Austin, TX.
- Shaughnessy, R.J., Turk, B.H., Moschandreas, D., Haverinen-Shaughnessy, U. (2011). "Comparing CO₂ Tracer Techniques for Estimating Ventilation Rates in Classrooms." *Proceedings of Indoor Air 2011: The 12th International Conference on Indoor Air Quality and Climate*, Paper a339_2, Austin, TX.
- Turk, B.H., (2010). "Built for Two." *Su Casa Magazine*, Summer 2010, Albuquerque, NM.
- Turk, B. H. and Hughes, J. (2009). "Movement and Sources of Basement Ventilation Air and Moisture During ASD Radon Control: Additional Analysis." Contractor Report submitted to the U.S. EPA, Indoor Environments Division, Office of Radiation and Indoor Air, Washington, D.C.
- Turk, B. H. and Hughes, J. (2008). "Exploratory Study of Basement Moisture During Operation of ASD Radon Control Systems." Contractor Report to the U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C. Posted on EPA website.
- Turk, B.H., Shaughnessy, R., Haverinen-Shaughnessy, U., Moschandreas, D., Jewett, B., Smith, R. (2007). "Characterizing Particle Removal and Cleaning in Texas Border Housing." In *Proceedings of IAQ 2007, Healthy and Sustainable Buildings*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Atlanta, GA.
- Turk, B.H., Fisher, E., Hughes, J., Lewis, R., Pyles, M., Shields, M., Straube, J. (2007). "Basement Dampness and Ventilation During Radon Mitigation." *Proceedings of IAQ 2007, Healthy and Sustainable Buildings*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Atlanta, GA.
- Turk, B.H., Fisher, E., Hughes, J., Lewis, R., Pyles, M., Shields, M., Straube, J. (2007). "Impact on Basement Moisture Using ASD Radon Control Systems." Presented at the AWMA 100th Annual Conference, Air and Waste Management Association, Pittsburgh, PA.
- Mendell, M.J., Brennan, T., Hathon, L, Odom, J.D., Offerman, F.J., Turk, B.H., Wallingford, K., Diamond, R.C., Fisk WJ. (2006) "Causes and Prevention of Symptom Complaints in Office Buildings: Distilling the Experience of Indoor Environmental Quality Investigators." *Facilities*, 24:436-44.

Shaughnessy, R., Cole, E., Brennan, T., Turner, W., Turk, B., Smith, R., Jewett, B. (2006). "Floor Coverings in Schools: Particle Buildup and Resuspension Potential Based on Preliminary Field and Chamber Studies," submitted to *Atmospheric Environment*.

Shaughnessy, R., Cole, E., Brennan, T., Turner, W., Turk, B., Smith, R., Jewett, B. (2006). "Floor Coverings in Schools: Particle Buildup Based on Surface Type and Resuspension Potential," *Proceedings of Healthy Buildings '06*, Lisbon, Portugal.

Mendell, M.J., Brennan, T., Hathon, L., Odom, J.D., Offerman, F.J., Turk, B.H., Wallingford, K.M., Diamond, R.C., Fisk, W.J. (2005). "Causes and Prevention of Symptom Complaints in Office Buildings: Distilling the Experience of Indoor Environmental Quality Investigators," *Indoor Air '05: Proceedings of Indoor Air '05: The Tenth International Conference on Indoor Air Quality and Climate*, Beijing, China, Sept 14-19, 2005.

Turk, B. (2004). "Crawlspaces: Considering the Options," *Home Energy*, May/June 2004, Volume 21.3, pp. 30-31.

Turk, B.H., Hadlich, D., Brennan, T., Duggan, A., Shaughnessy, R., Vogel, M., Abend, A. Galbraith, S., Hills, S., Miller, M. (2002). "Environmental Assessment Protocols for Homes, Schools, and Child Care," *Proceedings of Indoor Air '02: The Ninth International Conference on Indoor Air Quality and Climate*, Monterey, CA.

Shaughnessy, R. J.; Turk, B.; Evans, S.; Fowler, F.; Casteel, S.; Louie, S. (2002). "Preliminary Study of Flooring in School in the U.S.: Airborne Particulate Exposures in Carpeted vs. Uncarpeted Classrooms." *Proceedings of Indoor Air '02: The Ninth International Conference on Indoor Air Quality and Climate*, Monterey, CA.

Hughes, J; Turk, B; Cardwell, R. (1998). "Karst Geology, Radon Fluctuations, & Implications For Measurement & Mitigation." CRCPD/AARST, Cherry Hill, NJ.

Turk, B. (1997). "Good Indoor Air Quality in Energy-efficient Buildings", *Proceedings of Twenty-fifth Annual Life Technic Conference and Tenth Annual Peter Van Dresser Workshop on Village Development*, New Mexico Solar Energy Association, Ghost Ranch — Abiquiu, NM.

Turk, B., Powell, G., Casey, M., Fisher, E., Ligman, B., Marquez, A., Harrison, J., Hopper, R., Brennan, T., and Shaughnessy, R. (1997). "Impact of Ventilation Modifications on Indoor Air Quality Characteristics at an Elementary School", *Proceedings of Healthy Buildings/IAQ '97*, Washington, D.C., Vol. 1, pp. 155-160.

Shaughnessy, R.J., Turk, B., Casey, M., Harrison, J., and Levetin, E. (1997). "Use of Energy Recovery Ventilators to Provide Ventilation in Schools and the Impact on Indoor Air Contaminants", *Proceedings of Healthy Buildings/IAQ '97*, Washington, D.C., Vol. 1, pp. 161-166.

Turk, B.H., Nero, A.V., Price, P., Oatman, L., and Brunelle, S. (1996). "Operational Aspects of a Randomized Survey of Radon Concentrations in Minnesota Homes", Lawrence Berkeley Laboratory Report, Berkeley, CA.

Turk, B.H., Powell, G., Casey, M., Harrison, J., Hopper, R., and Marquez, A. (1996). "Impact of Ventilation Modifications on Airborne Particle and Carbon Dioxide Concentrations in an Elementary School", U.S. EPA, Office of Radiation and Indoor Air - Las Vegas, Las Vegas, NV.

Turk, B.H. (1995). "Procedures for Radon Investigations in Large Buildings", SC&A Report to the U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Turk, B.H., Ligman, B., and Brennan, T. (1995). "Radon Diagnostics in the Bataan Memorial Building", SC&A Report submitted to the U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Turk, B.H., Brodhead, W., Brennan, T., Ligman, B., and Fisher, E. (1995). "Radon Diagnostics in the Reading State Office Building", SC&A Report submitted to the U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Turk, B.H., Shaughnessy, R., Thompson, M., Jojola, G., and Powell, G. (1995). "Preliminary Assessment of Indoor Air Quality in Pueblo Indian Housing", Report to the All Indian Pueblo Council, Albuquerque, NM.

Casey, M.E., Braganza, E.B., Shaughnessy, R.J. and Turk, B.H. (1995). "Ventilation Improvements in Two Elementary School Classrooms," In: *Proceedings of Engineering Solutions to Indoor Air Quality Problems Symposium*, Pittsburgh, PA, Air and Waste Management Association.

Shaughnessy, R.J., Turk, B.H., Thompson, M., Jojola, G., and Powell, G. (1995). "Exploratory Survey of Indoor Air Contaminants in Indian Homes of the U.S. Southwest," *Proceedings of Healthy Buildings '95*, Milan, Italy.

Shaughnessy, R.J., Brennan T., Ligman, B.K., Fisher, E.J., Turk, B.H., Harrison, J. (1995). "Indoor and Outdoor Respirable Suspended Particles in Schools across the United States." *Proceedings of Healthy Buildings '95*, Milan, Italy, 499-506.

Turk, B.H., Powell, G., Marquez, A., Fisher, E., Ligman, B., Harrison, J., Brennan, T., and Shaughnessy, R. (1994). "A Ventilation Approach to Reducing Elevated Indoor Radon Levels in Santa Fe Schools", U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Fisher, E., Ligman, B., Brennan, T., Shaughnessy, R., Turk, B. and Snead, B. (1994). "Radon Mitigation in Schools Utilizing Heating, Ventilation, and Air Conditioning Systems," *Radiation Protection Dosimetry*, **56** (1-4), 51-54.

Turk, B.H., Schery S.D., Li, Y., Henschel, D.B., and Hawley, J. (1994). "The Entry and Control of Radon-222 and Thoron in New Mexico Residences", U.S. EPA, Air and Energy Engineering Research Laboratory, Research Triangle Park, NC.

Turk, B.H., Powell, G., Fisher, E., Ligman, B., Harrison, J., Brennan, T., and Shaughnessy, R. (1993). "Improving General Indoor Air Quality While Controlling Specific Pollutants in Schools." *Proceedings of Indoor Air '93: Sixth International Conference on Indoor Air Quality and Climate*, Helsinki, Finland, Vol. 6, 705-710.

Turk, B.H., Powell, G., Fisher, E., Ligman, B., Harrison, J., Brennan, T., and Shaughnessy, R. (1993). "Radon Control through Ventilation System Adjustments/Renovations in a Santa Fe Elementary School", U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Shaughnessy, R.J., Turk, B.H., Levetin, E., Brennan, T., Fisher, E.J., and Ligman, B.K. (1993). "Impact of Ventilation/Pressurization on Indoor Air Contaminants in Schools". U.S. EPA, Office of Radiation and Indoor Air, Washington, D.C.

Turk, B.H. (1993). "Soil Gas and Radon Entry Potential Measurements in Central Florida Houses", *Proceedings of Indoor Air '93, Sixth International Conference on Indoor Air Quality and Climate, Helsinki, Finland, Paper No. 927/11018.*

Turk, B.H., Powell, G., Fisher, E., Harrison, J., Ligman, B., Brennan, T., and Shaughnessy, R. (1992). "Multi-pollutant Mitigation by Manipulation of Crawlspace Pressure Differentials." *Proceedings of 1992 International Symposium on Radon and Radon Reduction Technology, U.S. EPA, Research Triangle Park, NC, Paper No. VII-5.*

Li, Y., Schery, S.D., and Turk, B.H. (1992). "Measurements of Indoor Thoron Levels and Disequilibrium Factors", *Proceedings of 1992 Symposium on Radon and Radon Reduction Technology, U.S. EPA, Research Triangle Park, NC, Paper No. VP-4.*

Li, Yanxia, Schery, S.D., and Turk, B.H. (1992). "Soil as a Source of Indoor ^{220}Rn ." *Health Physics, Vol 62, No. 5, pp. 453-457.*

Turk, B.H., Harrison, J., and Sextro, R.G. (1991). "Performance of Radon Control Systems." *Energy and Buildings, Vol. 17, pp. 157-175.*

Turk, B.H., Grumm, D., Li, Y., Schery, S.D., and Henschel, D.B. (1991). "Soil Gas and Radon Entry Potentials for Slab-on-Grade Houses." *Proceedings of 1991 International Symposium on Radon and Radon Reduction Technology, U.S. EPA, Research Triangle Park, NC, Paper No. V-5.*

Turk, B.H., Prill, R.J., Fisk, W.J., Grimsrud, D.T., and Sextro, R.G. (1991). "Effectiveness of Radon Control Techniques in 15 Homes." *J. Air Waste Manage. Assoc., 41: pp. 723-734.*

Schery, S.D., Li, Y., Grumm, D., and Turk, B.H. (1991). "Sources and Mitigation of Indoor Thoron." *Proceedings of the 84th Annual Meeting of the Air & Waste Management Association, Air and Waste Management Association, Pittsburgh, PA, Paper No. 91-63.3.*

Turk, B.H., Prill, R.J., Grimsrud, D.T., Sextro, R.G., and Moed, B.A. (1990). "Characterizing the Occurrence, Sources, and Variability of Radon in Pacific Northwest Homes." *J. Air Waste Manage. Assoc., 40: pp. 498-506.*

Turk, B.H., Harrison, J., Prill, R.J., and Sextro, R.G. (1990). "Developing Soil Gas and ^{222}Rn Entry Potentials for Substructure Surfaces and Assessing ^{222}Rn Control Diagnostic Techniques." *Health Physics, Vol. 59, No. 4, pp. 405-419.*

Turk, B.H., Harrison, J., Prill, R.J., and Sextro, R.G. (1990). "Soil Gas and Radon Entry Potentials for Substructure Surfaces." *Proceedings of 1990 International Symposium on Radon and Radon Reduction Technology*, U.S. EPA Report EPA/600/9-90/005c.

Gadgil, A.J., Najita, J.S., Revzan, K.L., Harrison, J., Turk, B.H., and Fisk, W.J. (1990). "An Experiment with Depressurization Tests as Indicators of Radon Availability in 6 New Jersey Houses." LBL-28690, Lawrence Berkeley Laboratory Report, Berkeley, CA.

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