

# Mohan K. Wali

Professor Emeritus

**School of Environment and Natural Resources**  
The Ohio State University

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## Fields of Interest

- Forest and grassland plant populations and communities in relation to environmental gradients (microclimates, water, nutrients, trace elements)
- Ecological succession
- Ecosystem rehabilitation after disturbance
- Ecosystem modeling
- Environmental policy in energy and land use
- Ecosystem restoration and climate change

## Education

- Ph.D. University of British Columbia, 1970, Plant Ecology, Soils
- M.S. University of Allahabad, 1960, Plant Physiology
- B.S. University of Jammu & Kashmir, 1957, Botany, Chemistry, Zoology

Also, training in Principles of Management, The University of North Dakota, 1976

## Positions Held

- 1990- Present The Ohio State University, Columbus, OH  
Professor, School of Environment and Natural Resources, 1990-2010  
Director, Ohio State (multi-college) Environmental Science Graduate Program, 2001-2006  
Professor, Glenn School of Public Affairs, 1992-2010  
(Previously, School of Public Policy and Management)  
Director, School of Natural Resources and Associate Dean, College of Agriculture, 1990-1993
- 1983 - 1990 State University of New York College of Environmental Science and Forestry, Syracuse, NY  
Professor, 1983-1990  
Leader, Ecology Concentration, 1985-1987  
Director, Graduate Program in Environmental Science, 1983-1985
- 1970 - 1982 University of North Dakota, Grand Forks, ND  
Professor of Biology, 1979-1982  
Associate Professor of Biology, 1973-1979  
Assistant Professor of Biology, 1969-1973  
Special Assistant to the President, 1977-1982  
Director, Project Reclamation, 1975-1982  
Director, Forest River Biology Area Field Station, 1970-1979  
Hill Research Professor, 1973



- 1975 - 1975 Staff Ecologist (consulting), Grand Forks Energy Research Laboratory, U.S. Department of the Interior, ND
- 1966-1969 The University of British Columbia, Vancouver, BC  
Graduate Research Fellow, 1967-1969  
Graduate Teaching Assistant, 1966-1969
- 1965-1966 University of Copenhagen, Copenhagen, Denmark  
Research Fellow, Ecology Division, 1965-1966

## **Administrative Experience**

### **Director, Environmental Science Graduate Program, The Ohio State University, 2001 – 2006**

The director administers the programs, policies, and graduate student support of the Environmental Science Graduate Program (ESGP), a multi-college endeavor at the Ohio State University. The faculty, who seek appointment in ESGP with strong support of their FTE chairs, are from several departments in the colleges of Biological Sciences; Dentistry; Engineering; Food, Agricultural, and Environmental Sciences; Mathematical and Physical Sciences; Medicine; Social and Behavioral Sciences; and Veterinary Medicine.

### **Director, School of Natural Resources, The Ohio State University, January 1990-June 1993**

As executive officer of the School, the director has administrative and fiscal responsibility for all instruction, research, and extension/public service programs and activities in the School. As the official representative of the School, serves as the liaison with other academic units, public agencies including state and federal government, and private industries and associations having interest in natural resources.

### **Associate Dean, College of Agriculture, The Ohio State University, Columbus, January 1990-June 1993**

As member of the Executive Committee-Vice President for Agricultural Administration and Executive Dean of the College of Agriculture, responsible for policy aspects of agricultural and natural resources education including teaching, research and cooperative extension, and interdisciplinary programs.

### **Director, Graduate Program in Environmental Science, State University of New York at Syracuse, 1983-1985**

Member of the dean's council, and of the President's cabinet; chief program administrator with specific duties of curriculum design and development; student recruitment, admissions and advisement; program review and evaluations, and pursuit of new research funding resources; interactions with deans and other campus administrators to ensure program integration; campus representative for interdisciplinary environmental science education and research to external cooperators.

### **Special Assistant to the President, The University of North Dakota, 1977-1982**

A broad range of important assignments including: briefing and preparation of position papers on academic and research matters; contacts with legislative and executive leaders, and research agencies; deputizing for the President at some university and state meetings; resolving difficult issues; and occasional speech-writing.

### **Director, Project Reclamation, The University of North Dakota, 1975-1982**

Administration, budget preparation, program development and execution, and overall direction of a large multidisciplinary group of researchers dealing with the rehabilitation of drastically disturbed ecosystems, and the policy matters thereof. Specialists included animal and plant ecologists, soils chemists and physicists, and ecosystem modelers. The Project received considerable attention internationally and nationally; over 100 original papers were published and presented at scientific meetings by the Project staff.

### **Staff Ecologist (consulting), Grand Forks Energy Research Laboratory, U.S. Department of the Interior (the Lab now under the Department of Energy), 1974-1975**

At the invitation of the Laboratory Chief, organized and directed the research of a large research team investigating environmental problems associated with coal development.

## Other Administrative Experience

- President, Sigma Xi-The Scientific Research Society, The Ohio State University Chapter, 1993-1994 (Executive Committee, 1990) (OSU Chapter was the recipient of the 'Certificate of Excellence' at the 1994 Sigma Xi National Meeting).
- Member, Executive Committee, International Society for Tropical Ecology, 1990-1998, re-elected 1995.
- Member, Editorial Board, *Arid Soil Research and Rehabilitation*, Crane, Russak & Co., 1984-present.
- Member, Editorial Board, *Vegetatio*, Kluwer Publishers, Dordrecht, The Netherlands, 1990-1992.
- Member, Editorial Board, *Landscape and Urban Planning*, Elsevier Science Publishers, Amsterdam, The Netherlands, 1987-1992.
- Co-Chairman, International Conference on "Rehabilitation of Degraded Ecosystems: A Global Issue", 1985-1987.
- Co-Chairman, IV International Congress of Ecology, Syracuse, New York (10-16 August 1986) 1983-1986.
- President, Sigma Xi-The Scientific Research Society, Syracuse Chapter, 1984-1985; Executive Committee, 1983-1986.
- Vice Chairman and Member, Air Pollution Control Advisory Council, State of North Dakota, 1981-1983 (gubernatorial appointment).
- Editor-in-chief, *Reclamation & Revegetation Research*, Elsevier, 1982-1988.
- Chairperson, Ecological Society of America, Section of International Activities, 1980-1984; Vice Chairperson, 1978-1980; Member, Program Committee, 1978-1984.
- General Chairman, American Institute of Biological Sciences, 34th Annual Meeting (7-11 August 1983), 1981-1983.
- Vice President, Canadian Botanical Association, 1982-1983.
- Chief and Senior Editor, *Reclamation Review*, Pergamon Press, 1977-1982.
- Chairman, Reclamation Group, The Consortium of Western Universities for Research on Energy (Consortium members included Colorado State U., Montana State U., South Dakota School of Mines and Technology, U. Idaho, U. Nebraska-Lincoln, U. North Dakota, U. Wyoming, and Utah State U.).
- Co-Chairman, International Congress for Energy and the Ecosystem: Economics, Ecology, and Planning of Coal Resource Development, 12-16 June 1978 (1976-1978).
- Co-Chairman, Conference on Practices and Problems of Land Reclamation in Western North America (19-20 January 1975), 1974-1975.
- Chairman, 1974 Biennial Meeting of the Midwest Prairie Conference (now North American Prairie Conference) (19-22 August 1974), 1972-1974.
- Member, Editorial Board, *Ecology of Western North America*, 1970-1973.

## Awards and Honors

- "2000 Teaching Award", The Ohio State University College of Food, Agricultural, and Environmental Sciences, 2000.
- Elected Fellow, American Association for the Advancement of Science, 1990.
- "Who's Who in AAAS," (feature) AAAS Observer 4 November 1988, American Association for the Advancement of Science, Washington, DC.
- Elected Foreign Fellow, The National Academy of Sciences, India, 1986.
- National Lecturer, Sigma Xi-The Scientific Research Society, 1983-1985.
- International Peace Gardener, awarded by the Governor of North Dakota, 1982.
- B.C. Gamble Distinguished Service Award for Outstanding Teaching, The University of North Dakota, 1977.
- Sigma Xi-The Scientific Research Society, The University of North Dakota Chapter Faculty Award for Outstanding Scientific Research, 1975.
- Selected as an Outstanding Educator of America, Washington, D.C., 1974-1975.
- Hill Research Professor, The University of North Dakota, 1973.
- Danish Ministry of Education, and Danish Ministry of External Affairs Research Fellow, The University of Copenhagen, 1965-1966.

## Listed in:

- Who's Who in America
- Who's Who in American Education
- Who's Who in the World
- Who's Who in Frontiers of Science and Technology
- Who's Who in Science and Engineering
- Guide to Energy Specialists
- Notable Americans of the Bicentennial Era

## Courses Taught

### At The Ohio State University (1990)--

Undergraduate courses: Environmental Science and Management, Biology for non-majors (nominated for the Alumni Award for Distinguished Teaching, 1991).

Graduate: Ecosystems of the World, Rehabilitation/Restoration of Ecosystems, International Environmental Policy, Sustainable Development and the Ecosystem Concept.

### At The State University of New York College of Environmental Science and Forestry (1982-1989)--

Graduate/Undergraduate courses: Environmental Policy, Energy and Environment, Ecology of Disturbed Ecosystems, Ecology of the Soil-Plant System.

Graduate: Recent Advances in Plant Ecology, Sustainable Development-Ecological Considerations.

### At The University of North Dakota (1969-1982)--

Undergraduate courses: Introductory Biology, General Ecology.

Graduate courses: Forest Ecology, Grassland Ecology, Physiological Ecology, Quantitative Ecology, Drastically Disturbed Ecosystems.

## Student Course Evaluations

Student evaluations at The Ohio State University, the State University of New York College of Environmental Science and Forestry, and the University of North Dakota: in all evaluations, averages were 96% good-excellent; 83% very good-excellent.

## Teaching Awards

- "2000 Teaching Award", The Ohio State University College of Food, Agricultural, and Environmental Sciences, 1990
- "B.C. Gamble Award for Outstanding Teaching", The University of North Dakota, 1977
- "Outstanding Educator of America", Washington, D.C., 1975

## Research

### Interests

Ecological relations of plant populations and communities in relation to environmental gradients; productivity relations; ecosystem modeling; environmental policy; analysis of energy development and land use; sustainable development; ecosystem reconstruction after drastic disturbance; ecological succession; modeling biogeochemical cycling in relation to climate change.

## Graduate Students -- Direct Supervision

### Completed - Ph.D.

Douglas A. Wikum (the late), Ph.D. 1972; Professor emeritus of Biology, University of Wisconsin-Menomonie.

Keith T. Killingbeck, Ph.D. 1976; Professor of Biological Sciences, and Associate Dean, Graduate School, University of Rhode Island.

Roger W. Ruess, Ph.D. 1980; Professor of Ecology, University of Alaska at Fairbanks.

Louis R. Iverson, (Fulbright Scholar, U.K., 1979-1980) Ph.D. 1981; Landscape Ecologist, USDA-Forest Service, Delaware, Ohio.

Young D. Choi, Ph.D. 1991; Professor of Biology, Purdue University-Calumet, Indiana.

Wiryono, (Thomas Jefferson Fellow 1993-1996) Ph.D. 1996; Head, Department of Forestry, University of Bengkulu, Indonesia.

Tristram O. West (U.S. Department of Defense Fellow, 1996-1999), Ph.D., 1999; Research Scientist, Pacific Northwest National Laboratory (U.S. Department of Energy) and University of Maryland, College Park, Maryland.

Fatih Evrendilek, Ph.D., 2000, Professor, Department of Environmental Engineering, Abant Izzet Baysal University, Bolu, Turkey.

Stephen E. Watts (U.S. Department of Defense Fellow, 1996-1999), Ph.D., 2001, Research Scientist and Project Manager, U.S. Department of Defense, Edwards Air Force Base, California.

### **Completed - M.S.**

Alden L. Kollman, M.S. 1974; President, Fertile-Wise, Carrington, North Dakota.

Richard H. Bares, M.S. 1976; Research Associate, University of North Dakota.

Steven D. Fairaizl, M.S. 1979; Senior Biologist, Airport Wildlife Consultants LLP, Sky Harbor International Airport, Phoenix, Arizona.

Elmer J. Finck, M.S. 1979; Ph.D. Kansas State University, 1982; Professor and Chair, Dept. of Biology, Fort Hays State University, Kansas.

Julie Stauber, M.S. 1984; Research Scientist, Minnesota Department of Natural Resources, St. Paul.

Wiryono, M.S. 1991, Fulbright Scholar from Indonesia (see Ph.D.s above).

Brian Fath, M.S. 1993; Ph.D., University of Georgia, 1998; Professor, Department of Biological Sciences, Towson University, Maryland.

James P. Buratti, M.S. 1996; University Web Developer, Southwest Texas State University, San Marcos.

Meryl J. Hattenbach, M.S. 1996; Field Biologist, The Nature Conservancy, Arkansas.

Elizabeth S. Wasick, M.S. 1996; Fire Ecologist, Regional Office, USDA - Forest Service, Ashville, North Carolina.

Tristram O. West, M.S. 1996 (see Ph.D.s above).

Michael Kirkpatrick, M.S. 1998; Analyst, MicroCenter Corporate Office, Columbus, Ohio.

Jennifer Fish, M.S. 1998; Administrator, Franklin Soil & Water Conservation District, Grove City, Ohio.

Devika Pant, M.S. 1998; M.S. & MPA Columbia University; Manager, Impact Assessment (economic development and environmental conservation) at ShoreBank Corporation, a leading community development bank holding company in Chicago, Illinois.

Holly Gibbs, M.S., 2001; Ph.D. University of Wisconsin - Madison; Postdoctoral Research Associate, Stanford University; Assistant Professor, Department of Geography, University of Wisconsin - Madison.

Jason Funk, M.S., 2002; Ph.D. Stanford University; Conservation Analyst, Land, Water & Wildlife Program, Environmental Defense Fund, Washington, DC.

### **Other ADVISORY COMMITTEES**

Ph.D. - 39 (Agronomy, Biochemistry, Biology, Environmental Science, Forestry, Geology, Plant Biology, Social Sciences).

M.S. - 30 (Biology, Environmental Science, Geology).

### **Postdoctoral Research Associates/Visiting Scientists**

Dr. F. Evrendilek, Ph.D. (Ohio State U.), NATO Fellow, 2005.

Dr. K. Thabet, Ph.D. (U. Nuremberg), Fulbright Scholar, 2000.

Dr. R. Dave, Ph.D. (Syracuse U.), Postdoctoral Fellow, 1988.

Dr. D. Chase, Ph.D. (U. Wales-Swansea), Postdoctoral Fellow, 1980-1981.

Dr. L. R. Iverson, Ph.D. (U. North Dakota), Postdoctoral Fellow, 1981-1982.

Dr. K. T. Killingbeck, Ph.D. (U. North Dakota), Postdoctoral Fellow, 1976-1978.

Dr. M. A. K. Lodhi, Ph.D. (U. Oklahoma), Visiting Associate Professor, 1977.

Dr. N. Malakondaiah, Ph.D. (U. Tirupati), Postdoctoral Fellow, later Research Scientist, 1977-1979.

Dr. A. Mostajeran, Ph.D. (Iowa State U.), Postdoctoral Fellow, 1977-1979.

Dr. S. A. Nicholson, Ph.D. (U. Georgia), Senior Research Scientist, 1980-1982.

Dr. R. H. Pemble, Ph.D. (U. California- Davis), Visiting Associate Professor, summers 1975-1979.

Dr. M. Saeed, Ph.D. (U. Hawaii), Postdoctoral Fellow, 1976-1977.

Dr. N. M. Safaya, Ph.D. (U. Aligarh), Postdoctoral Fellow, later Research Scientist, 1976-1979.

Dr. T. L. Starks, Ph.D. (U. North Dakota), Postdoctoral Fellow, 1979-1981.

## Professional Memberships and Activities

- American Association for the Advancement of Science
- American Institute of Biological Sciences
- American Society of Agronomy
- Ecological Society of America
- Gamma Sigma Delta
- International Society of Soil Science
- International Society for Tropical Ecology
- Sigma Xi, The Scientific Research Society
- Society of American Foresters
- Soil Science Society of America
- The National Academy of Sciences, India

## Reviewer

### Grant proposals/Policy papers

- Institute of International Education (Fulbright Program)
- The College Board (AP Program)
- Council for International Exchange of Scholars (Fulbright Program)
- U.S. National Science Foundation
- Natural Sciences and Engineering Research Council of Canada
- United Nations Educational, Scientific and Cultural Organization
- International Union for the Conservation of Nature and Natural Systems
- World Resources Institute

## Journals

- *American Journal of Botany*
- *Arid Soil Research & Rehabilitation*
- *Bulletin of the Torrey Botanical Club*
- *Canadian Journal of Botany*
- *Ecology*
- *Ecological Monographs*
- *Environmental and Experimental Botany*
- *Journal of Environmental Quality*
- *Journal of Soil and Water Conservation*
- *Landscape and Urban Planning*
- *Reclamation Review*
- *Reclamation & Revegetation Research*
- *Science*
- *Soil Science Society of America Journal*
- *Tropical Ecology*
- *Vegetatio*

## Invited Lectures

### Universities/Colleges

University of Alberta, Land Reclamation International Graduate School, Edmonton, Alberta, Canada, 27 November 2012 (Inaugural Address).

Kenyon College Department of Biology, Gambier, Ohio, 27 March 2008.

Capital University, Department of Biological Sciences and the Department of Philosophy, Bexley, Ohio, 14 April 2004.

The Ohio State University: School of Environment and Natural Resources Spring Seminar, 18 April 2013; School of Public Policy & Management, 25 April 2003; BETHA - Sigma Xi Series, 22 April 2003; Department of Mechanical Engineering, 5 April 2002; Department of Food, Agricultural, and Biological Engineering, 8 November 2001; School of Natural Resources Lecture Series, 1 November 2001; OSU-Extension 'Focus on the Environment,' 6 June 1995; Sigma Xi-The Scientific Research Society, OSU Chapter, 11 May 1994 (Presidential

Address); Byrd Polar Research Center and Columbus Dispatch Global Change Lecture Series, 2 March 1994; College of Veterinary Medicine, 30 September 1992, 2 December 1992; Ohio Agricultural Research and Development Center (OARDC) Annual Conference, Wooster, Ohio, 4 December 1991; Department of Plant Biology, 4 October 1990; OSU Earth Day, 19 April 1990; Department of Landscape Architecture, 16 April 1990; OARDC Support Council, Columbus, 21 April 1990; and School of Natural Resources, Columbus, Ohio, 31 July 1989.

Indian Agricultural Research Institute, New Delhi, 11 December 2001.

Brandenburg Technical University, International Conference, Cottbus, Germany, 13 November 1997 (Keynote Address).

University of Notre Dame, Notre Dame, Indiana, 3 September 1996.

University of British Columbia, V. J. Krajina Memorial Lecture, 7 November 1995.

Central State University, Wilberforce, Ohio, 11 April 1992.

Syracuse University's Maxwell School of Citizenship and Public Affairs, Program on Environmental Issues and Policies in South Asia, 29 January 1988 (Opening Address); 17 April, 12 & 29 October 1985.

Bangalore University, Bangalore, 12 August 1985.

Youngstown State University, Youngstown, Ohio, 26 April 1985 (Sigma Xi Banquet-Initiation Address).

University of Philippines, Los Banos, 8 February 1985.

University of Wisconsin-Milwaukee, 30 January 1985.

University of Louisville, Kentucky, 4 October 1984 (Inaugural Address, Center for Environmental Science).

Emory University, Atlanta, Georgia, 15 November 1983.

State University of New York at Fredonia, 3 November 1983.

Vassar College, Poughkeepsie, New York, 23 September 1983.

The University of Texas at El Paso, 7 May 1981.

Stanford University, and Carnegie Institution of Washington, Palo Alto, California, 16 June 1982.

Utah State University, Logan, 23 February 1981.

University of Saskatchewan, Saskatoon, 6 November 1980.

University of California, Davis, 8 March 1979.

University of California, Los Angeles, 6 March 1979.

University of Copenhagen, 14 April 1977.

The University of Manitoba, Winnipeg, 10 March 1977.

The University of Arizona, Tucson, 1 March 1977.

The University of British Columbia, Vancouver, 15 February 1977.

### Events/Meetings

World Science Festival 2013, Sundance award winning film, *Valley of Saints—Science in Troubled Waters*, New York, NY, May 31, 2013 (Science Commentator).

Society of Ecological Restoration Great Lakes-Midwest Chapter, Annual Meeting, Wooster, OH, 12 April 2013 (Keynote speaker).

Oxford Round Table at Linclon College, UK, March 21-26, 2010 (Opening Lecture: *Copenhagen Climate Accord Implementation: Premises and Promises*) 22 March 2010.

International Conference on the Ecology of Post-Mining Landscapes, Cottbus, Germany, 15 March 1999 (Plenary Address).

VII International Congress of Ecology, Symposium on Ecosystem Restoration: Global Experiences and Needs, Florence, Italy, 22 July 1998 (Opening Lecture).

International Workshop on Global Climate Change and Cold Ecosystems, Columbus, Ohio, 31 March 1998 (Plenary Lecture).

Carbon Sequestration in Soil, An International Symposium, Columbus, Ohio, 26 July 1996 (Invited Panel Speaker).

Society of Environmental Toxicology and Chemistry, Miami University (Ohio), 23 June 1995.

National Institute on Cooperative Education, Cincinnati, Ohio, 29 July 1993.

International Floriculture Industry Short Course, Cincinnati, Ohio, 10 July 1993.

Mexican Society of Plant Breeding and Genetics National Congress, Tuxtla Gutierrez, 5 October 1992 (Inaugural Address).

American Veterinary Medical Association 129th Annual Meeting, Boston, Massachusetts, 4 August 1992.

Department of Natural Resources, State of Ohio Administrative Meeting, Lake Hope, Ohio, 23 October 1991.

Academy of Natural Sciences and Philadelphia Botanical Club, Philadelphia, Pennsylvania, 26 October 1989.

Third International Rangeland Congress, New Delhi, India, 7 November 1988 (Opening Plenary Address).

IX International Symposium on Tropical Ecology, Banaras Hindu University, India, 11 December 1987 (Inaugural Address).

Sigma Xi, The Scientific Research Society-Syracuse Chapter, Syracuse, New York, 21 April 1986 (Presidential Address).

The 7th Bi-Annual High Altitude Revegetation Workshop, Fort Collins, Colorado, 6 March 1986 (Keynote Address).

International Symposium on Environmental Problems in Regions of Mining and Associated Activities, New Delhi, 10 January 1986.

Indian Agricultural Research Institute, New Delhi, 10 January 1986.

Indian Science Congress, New Delhi, 4 January 1986 (Plenary Address).

International Council of Scientific Unions, Bangalore, 13 August 1985.

Global Environmental Problems: A Legal Perspective, Syracuse, New York, 12 April 1985 (Opening Address).

Pacific Science Association's 5th Inter-Congress, Manila, 3 February 1985 (Representing the U. S. National Academy of Sciences).

International Seminar on Geobotany and Environmental Biogeochemistry, Tirupati, 26 November 1984 (Keynote Address).

Illinois Natural History Survey, Champaign, 23 October 1984.

Symposium on Trace Element Mobilization in Western Energy Regions, Denver, Colorado, 21 November 1982 (Keynote Address).

American Association for the Advancement of Science-Indian National Science Academy Symposium on the Role of Scientific and Engineering Societies in Development, New Delhi, 2 December 1980 (Member U. S. Delegation).

Argonne National Laboratory's Energy Resources Program, New Town, North Dakota, 12 July 1979 (Keynote Lecture).

Minnesota Academy of Science Annual Meeting, Morrisville, 4 May 1979 (Banquet Address).

U.S. Department of Agriculture, Agricultural Research Service, Mandan, North Dakota, 16 May 1977.

British Columbia Ministry of Mines and Petroleum Resources Symposium on Land Reclamation, Nelson, 15 March 1977 (Keynote Address).

## **Committee Responsibilities and Community Lectures**

### **State of Ohio**

Science and Technology Council (Governor's Environmental Technology Task Group), Columbus, Ohio, 1992-1993.

Ohio Department of Development-Office of Energy Efficiency, Columbus, Ohio, 22 June 1992.

The Public Utilities Commission of Ohio, Ohio Energy Strategy Forum, Columbus, Ohio, 14 January 1992.

### **State of North Dakota**

Vice Chairman, Air Pollution Control Advisory Council, State of North Dakota, 1981-1983 (Governor's appointment).

Technical Testimony on State's Research Needs, 46th Legislative Assembly of North Dakota (both Chambers, and Governor present), 6 February 1979.

Technical Testimony, North Dakota Senate Committee on Appropriations, 1977; North Dakota Senate Natural Resources Committee, 1973.

Technical Panel, Joint Committee on Resources Development of the North Dakota Legislative Council, and the Executive Branch, Task Force on Coal Gasification, 1973.

Member, National Science Foundation's Experimental Program to Stimulate Competitive Research, Committee on North Dakota, 1979-1981.

Member, Task Force on Vegetation, and User Specification Team on Soils, North Dakota Regional Environmental Assessment Program, 1975-1976.



Member, State of North Dakota Delegation to Second Western Governors Conference on Energy and Agriculture, 1975. [Several decision-makers, and scientific delegations were taken on field trips to acquaint them with environmental problems and needed research. These included senators, Administrator of President's Council on Environmental Quality, a visiting delegation from the Soviet Union, and others.]

## **University**

I have served on a number of university, college and departmental committees which include the following:

### **The Ohio State University (1990-)**

Chair, Presidential Committee on AAAS Fellows, 2004-2010

Member, Promotion and Tenure Committee, College of Food, Agricultural, and Environmental Science (CoFAES), 1995-1998.

Member, Needs Planning and Assessment Committee, CoFAES, 1995.

Member, Executive Committee, Agricultural Administration, 1990-1993.

Vice President's (Agriculture) Council, 1990-1993.

Governing Board, Center for Mapping, 1990-1994.

Governing Board, Chadwick Arboretum; Interdisciplinary programs in (i) Water Resources, (ii) Biotechnology, and (iii) Sustainable Agriculture, 1990-1994.

Piketon Research and Extension Center Administrative Committee, 1990-1994.

School of Natural Resources: Chair, Lectures/Seminar Committee 1994-2000, 2004-; Member, Promotion and Tenure Committee, 1997-2000; Chair, Ad hoc Committee of Faculty & Graduate Students (student concerns), 1997-1998.

### **State University of New York at Syracuse (1983-1989)**

Graduate Education and Research Initiative--Environmental Systems Science, 1987-1989 (Chairman, 1988-1989).

Faculty Promotions and Tenure Committee, 1987-1989.

### **The University of North Dakota (1969-1982)**

Faculty Committee on Capital Equipment, 1987-1988.

Chair, Senate Committee on Honorary Degrees, 1979-1983.

Senate Committee on Outstanding Teaching Awards, 1981-1982.

Chair, Faculty-Sigma Xi Award for Excellence in Research, 1981-1982.

Chair, University Lectures Committee 1975-1978, 1981-1983.

Chair, Salaries Committee, AAUP-UND Chapter, 1976-1977.

Chair, Tenure and Promotions Committee, AAUP-UND Chapter, 1976-1977.

Senate Special Committee on Salary Schedules, 1975-1976.

## **Community**

### **Invited Lectures**

Bible Institute – National Lutheran Church, Columbus, Ohio, February 18, 2008 (Banquet Address).

Alliance for Sustainable Jobs & the Environment–AFL-CIO, Ohio Environmental Council, Columbus, Ohio, 17 September 2002.

Barnes & Noble Discussion Group, Lennox Center, Columbus, Ohio, 17 July 1999.

Ohio Mineland Partnership Annual Meeting, Lancaster, Ohio, 5 October 1998 (Banquet Address).

Miami Valley Earth Central, Annual Meeting, Dayton, Ohio, 17 March 1995 (Keynote Address).

Covenant Presbyterian Church, Upper Arlington, Ohio, 28 March 1993, 15 March 1992.

Torch Clubs International, National Meeting, Columbus, Ohio, 27 June 1992.

Hancock County-University of Findlay, Ohio, 22 April 1990.

Rotary International-North Syracuse Chapter, New York, 27 April 1988.

Rotary International-Dewitt Chapter, New York, 4 April 1988.

The Smithsonian Institution Comes to Syracuse (Lectures, Seminars and Workshops), 4-10 November 1985 (Host).

North Dakota Science Teachers Association, Annual Meeting, 21 October 1982 (Keynote Address).

Lion's International, 24 January 1979.

Society of Industrial Engineers, 21 March 1979.

Trails County Farm Bureau Annual Banquet Address, 26 October 1978.  
 American Association of University Women-Minnesota, 26 September 1977.  
 General Federation of Women's Clubs, Shell Oil-sponsored Seminar on Conservation, 16 August 1977.  
 North Dakota Education Association, 90th Annual Meeting, 20 October 1977 (Keynote Address).  
 Sertoma Club International, 21 September 1976.  
 East Grand Forks Rotary Club, 13 February 1975.  
 Grand Forks Toastmasters Club, 24 January 1974.  
 Grand Forks District Medical Association, 15 October 1973.

## Other Activities

Judge, Soil Conservation Service-sponsored awards for environmental posters for county school boards, 1973-1981.  
 Featured Stories on my research-related activities appeared in a number of newspapers: *Minneapolis Tribune*, *Grand Forks Herald*, *Fargo Forum*, *Syracuse Post-Standard*, *Syracuse Herald-Journal*, *Syracuse Herald-American*, *The Chronicle of Higher Education*, *New Scientist* (London, UK), others.  
 Special interviews on contemporary environmental issues were also presented on radio and television (including the *Voice of America*).

## Publications

### Books

Wali, M. K., F. Evrendilek and M.S. Fennessey. 2010. *The Environment: Science, Issues, Solutions*. CRC - Taylor and Francis, Boca Raton, FL. 619 p.  
 Edwards, C. E., M. K. Wali, D. J. Horn, and F. Miller (editors). 1993. *Agriculture and the Environment*. Elsevier Science Publishers, Amsterdam, The Netherlands. 326 p.  
 Wali, M. K. (editor). 1992. *Ecosystem Rehabilitation -- Preamble to Sustainable Development*, 2 volumes. SPB Academic Publishing, The Hague, The Netherlands. 230 p. and 388 p.  
 Wali, M. K. (editor). 1979. *Ecology and Coal Resource Development*. 2 volumes. Pergamon Press, New York and Oxford. 1,091 p.  
 Wali, M. K. (editor). 1975. *Prairie: A Multiple View*. The University of North Dakota Press, Grand Forks. 433 p. (Also, A Supplement to *Prairie: A Multiple View*, 466 p.) The University of North Dakota Press, Grand Forks.  
 Wali, M. K. (editor). 1975. *Practices and Problems of Land Reclamation in Western North America*. The University of North Dakota Press, Grand Forks. 196 p.  
 Wali, M. K. (editor). 1973. *Some Environmental Aspects of Strip Mining in North Dakota*. Education Series 5 Bulletin, North Dakota Geological Survey, Grand Forks. 121 p.  
 Bulletin Guest editors: Wali, M. K., and J. H. Cooley. 1984. *International Cooperation in Ecological Research: Strengths, Weaknesses, and Future Needs*. International Association for Ecology Bulletin 10. 55 p.

### Papers

Evrendilek, F., and M.K. Wali. 2004. Changing global climate: Historical carbon and nitrogen budgets, and projected responses of Ohio cropland ecosystems. *Ecosystems* 7:381-392.  
 Wali, M. K., N. M. Safaya, and F. Evrendilek. 2002. Ecological rehabilitation and restoration in the Americas with special reference to the United States of America. In *Handbook of Restoration Ecology*, edited by M. R. Perrow and A. J. Davy, Vol. 2, pp. 3-31. Cambridge University Press, Cambridge, UK.  
 West, T. O. L., and M. K. Wali. 2002. Modeling regional carbon dynamics and soil erosion in disturbed and rehabilitated ecosystems as affected by land use and climate. *Water, Air & Soil Pollution* 138:141-163.  
 Evrendilek, F., and M. K. Wali. 2001. Modelling long-term C dynamics in croplands in the context of climate change: a case study of Ohio. *Environmental Modelling and Software* 16(4):361-375.  
 Wali, M. K. 1999. Ecological succession and the rehabilitation of disturbed ecosystems. *Plant and Soil* 213:195-220.

- Wali, M. K. 1999. Ecology today: beyond the bounds of science. *Nature & Resources* 35(2):38-50. (Available also in French and Spanish).
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