

DR. MAHMOOD A. KHWAJA



Sustainable Development Policy Institute (SDPI),
P.O. Box 2342, Islamabad. Pakistan,
Tel. 0092 51 2278134/36; Fax. 0092 51 2278135
E-mail: khwaja@sdpi.org ; m.a.khwaja@gmail.com
Web. www.sdpi.org

EDUCATION

Ph.D (Chemistry), La Trobe University of Science and Technology, Melbourne, Australia.

M.Sc , University of Peshawar, Pakistan

B.Sc., University of Peshawar, Pakistan.

EMPLOYMENT/EXPERIENCE

- **Teaching**
Aug. 1973 – Jan. 1978 Lecturer, PAF College, Peshawar
Senior Teacher/Principal, Government O Level Schools, Sierra Leone (1980 – 82)
- 1966-68; 1974 – 76** Lecturers, Chemistry Department, Peshawar University
1983-87 Lecturer/Senior Lecturer, Chemistry Department, Cape Coast University, Ghana
Part time teaching/Laboratory work supervision at Kumasi University of Science and Technology (Ghana) and La Trobe University of Science & Technology (Melbourne).
- **Workshops**
Several 1–3-day “Short Courses” on “Environmental Monitoring,” other environmental issues developed, organized and offered to in-service industry staff and EPA Officials in Pakistan.
- **Textbooks**
Subject Specialist (Science) for school and College textbooks, NWFP Textbooks Board, Peshawar (1976 – 1979)
- Participated in several inter-governmental meetings organized by UNEP on Chemicals Management issues such as Stockholm Convention on persistent organic pollutants (POPs), Strategic International Approach for Chemical Management(SAICM),international Forum for Chemical Safety. (IFCS), Global Civil Society Forum, UNEP Governing Council and Global Environmental Minister Forum

RESEARCH

- 1988 – 1997** Senior Scientific Officer/Section Incharge, Pakistan Council for Scientific and Industrial Research (PCSIR) Peshawar, ()
- Aug 1997 – May 2006** Research Fellow (Environment)/Incharge/Coordinator, Sustainable Industrial Development/Environmental Monitoring/Technology Transfer for Sustainable Industrial Development SDPI
- July 2007 – June 2008**

June 2006 – June 2007	<u>Visiting Research Fellow, SDPI</u>
2008 – present	<u>Visiting Research Fellow and Senior Advisor, Chemicals & Sustainable Industrial Development</u>
Sep -Oct 2006	<u>UNDP-Pak-EPA Resource Person/Reviewer, National Implementation Program (NIP) for POPs phase out in Pakistan</u>

SHORT TRAINING COURSES/WORKSHOPS/PROFESSIONAL DEVELOPMENT (LAST FIVE YEARS ONLY)

1. "PCBs and their Environmental Sound Management," Regional Workshop, Bangkok, 2003
2. "Better Air Quality in Asia and Pacific Rim Cities," Regional Workshop, Hong Kong, 2002.
3. "Strategic Environment Assessment ," Regional Workshop, Islamabad, November, 2000
4. "Environment Requirements in World Trade," CGD International Workshop, Hanover, October, 2000
5. "Polychlorinated Biphenyls and Dioxin/Furans, UNEP Chemicals Workshop, Tehran, June, 2000
6. "Time Management," PEP Training Course, Islamabad, February, 2000
7. "Quality Assurance and Accreditation for Environmental Laboratories," Environment Canada Training, Islamabad, February, 2000.
8. "Cross-Sectoral Linkages in Policy Planning and Review," PEP Training Course, Islamabad, June, 1999
9. "Wastewater Treatment," NUST Short Course and Workshop, Rawalpindi, May, 1999.
10. "Sustainable Development in Industry," NUST Short Course, Rawalpindi, May, 2004
11. "Action Plan Training and Skills Building Workshop for National Implementation Plan formulation for POPs Phase out," UNITAR/UNEP/UNDP, Islamabad, March, 2006

HONORARY ASSIGNMENTS

- Fellow, Chemical Society of Pakistan (FCSP)
- Member Board of Directors, Pacific Basin Consortium (PBC) on Environment and Health sciences, East-West Center, Hawaii, USA.
- SAICM NGOs National Focal Point, Pakistan.
- Ex-Member, UNEP Global Civil Society Forum Steering Committee, representing Asia-Pacific region.
- Member Local Advisory Board, Journal of The Chemical Society of Pakistan and Reviewer, Journal of Science, Technology and Development.
- Convener, SAYEN (South Asia Youth Environment Network) National Steering Committee
- Advisor/Supervisor, UNEP/IGSE, Showcase Project on Access to safe drinking water in remote rural areas in Thatta Sindh.
- Focal Person, UNEP-SDPI and IGES, Japan – SDPI Collaboration for APFED program
- Member, National Committee, Dictionary of Scientific and Technical Terms (English – Urdu), Curriculum and Textbooks wing, Ministry of Education,, Government of Pakistan (1980)
- Associate Secretary, Chemical Society of Pakistan (1990-92)
- Secretary, Pakistan Environmental Protection Foundation (Six Months)
- Vice-President Ghana Science Association, (1985 – 86)
- Member, Executive Committee, Ghana Chemical Society (1984-85)
- Editor, Chemistry Journal, Proceedings of Conferences, Seminars, Workshops
- Leader, Survey Team on Tanneries Industries in NWFP.
- Member, Pakistan Scientists Delegations to China & India
- Member, University Senate, Science Faculty Board, Publication Board (1984 – 86)
- Focal Person-Pakistan/Member Steering Committee, International POPs Elimination Network (IPEN)
- Chairman, Training Committee & Urdu Editorial Board, SDPI, Islamabad
- Focal Person, National Environmental Quality Standards (NEQS), Implementation Committee, Islamabad.
- Member, Sub-Committee, Sampling Procedures and Chemical Methods, Self-Monitoring and Reporting Program for Industry in Pakistan (1999)
- Member, Sub-Program Implementation Committees, Pollution Control & Policy Coordination & Environmental Governance, National Environmental Action Plan (NEAP), 2002 - 3
- Co-opted Member, Pakistan Delegations, Intergovernmental Negotiating Committee (INC) Sessions on formulation of Global Treaty for POPs Elimination, Geneva (1999) and South Africa (2000).
- Member, Board of Studies, Department of Environmental Sciences, University of Peshawar (2003)

- Co-Chairman, IPEN Working Group PCBs, Dioxins Wastes (2003)
- Member IPEN Global Review Committee, International POPs Elimination Project (IPEP), (2003)
- Member IPEN Regional Review Committee for South Asia for IPEP (2003)
- Member Draft Committee/Representative Asia Pacific, Global Civil Society Forum on Chemical Management, Energy & Tourism issues, Bangkok & Bahrain, October – November, 2005
- Co-Chair, International POPs Elimination Project (IPEP), South Asia
- Member, Environment Assessment Advisory Committee, MoE, GoP
- Member/expert representative from NGOs, National Technical Advisory Committee on Chemicals (NTACC), MoE, GoP
- Member, High Level National Committee for Industrial Environment Management Policy, Ministry of Industries and Production, GoP

REFERENCES

1. **Prof. Dr M.Rasul Jan**, Vice-Chancellor, Malakand University, Swat, Pakistan
Tel. 091 9216652 Mob. 0345 9024926 e-mail mrjanpk2002@yahoo.com
2. **Prof. Dr. Haroon ur Rasheed**, Ex-Vice-Chancellor, Peshawar University, Peshawar Pakistan
3. **Dr. Abid Suleri**, Executive Director, Sustainable Development Policy Institute (SDPI), Islamabad. Pakistan. suleri@sdpi.org
4. **Prof. Dr. Lutfullah Khan**, Vice-Chancellor, Kohat University of Science & Technology, Kohat, Pakistan

PUBLICATIONS

Major publications and articles on Environmental Studies (Urdu and English) and Inorganic and Analytical Chemistry (English), including the following:

- **ENVIRONMENTAL STUDIES**

1. **“Studies on Flouride Concentration of Drinking Water in Cape Coast, Ghana (West Africa)”**
J.Chem.Soc.Pakistan, 17(2), 121(1995).
2. Shagufta Nasreen, Mahmood A. Khwaja and I. Awan
“Pollution Due To Effluents from Tanneries and Leather Industries in NWFP “
Pak. J.Sci.Ind.Res, 38 (5-6), 215 (1995)
3. Mahmood A. Khwaja, M. Rasool Jan and Irshad Ahmad
“Environmental Pollution due to Leather and Leather Products Manufacturing Industrial Units in NWFP - A Survey Report “
J. Environmental and Analytical Chemistry, 3 (1) pp.87 (1995).
4. Mahmood A. Khwaja and Fauzia Begum
“Utilization of Wastes from Chemical and Galvanized Industries - Preparation of Zinc Chemicals
Pak.J..Sci..Ind..Res., 36,(10),443 (1993)
5. J.T. Ntow and Mahmood A. Khwaja
“Mercury Pollution in Ghana Coastal Commercial Fish.”
Environmental Tech. Letter, 10,109 (1989)
6. Mahmood A. Khwaja
“Studies on Pesticides Use and Resulting Environmental and Health Impacts in Pakistan.”
The Persistent Organic Pollutants (POPs) Handbook for UN Convention on POPs, published by International POPs Elimination Network (IPEN), October, 2000
7. Mahmood A. Khwaja and Shaheen Rafi Khan
“Key Environmental Issues in Pakistan – Air,”
SDPI Working Paper Series # 99 (2005)
8. Robert B. Barlow Cash and Mahmood A. Khwaja
“Development of Environmental Auditing Capacity in Pakistan.”
CIDA/PEP/Ecologistics, Canada/SDPI, Islamabad, Pakistan, September 2000
9. Mahmood A. Khwaja
“Lead Exposure and Children: Blood Lead Levels in School Children Resulting from Leaded Petrol

- Use and Increasing Road Traffic in Pakistan.”**
SDPI Policy Paper Series # 31 2003
10. Mahmood A. Khwaja
Environmental Impacts of Tanning and Leather Products Manufacturing Industry in NWFP
SDPI Working Paper Series # 55 2000
 11. Mahmood A. Khwaja and Jan Glavin
“ Environmental and Health Impacts of Polychlorinated Biphenyls (PCBs) and Measures for PCBs Phase Out in Pakistan.”
Science, Technology and Development, 25(4), pp 24, 2006
 12. Jindrich Petrlík and Mahmood A. Khwaja
“ POPs in Different Samples of Waste Incineration Residues in Pakistan”
Arnika, Czech Republic and SDPI, Pakistan April, 2006.
 13. Nadia M. Akbar and Mahmood A. Khwaja
“ Study on Effluents from Selected Sugar mills in Pakistan: Potential Environmental, Health and Economic Consequences of an Excessive Pollution Load”
Sustainable Development Policy Institute (SDPI), Islamabad June, 2006
 14. Mahmood A. Khwaja, M.R. Jan & K. Gul
“ Study of Contamination of Soil in Surrounding of Abandoned Persistent Organic Pollutant (DDT) Nowshera Factory in North West Frontier Province, Pakistan.”
Sustainable Development Policy Institute, Islamabad January, (2007)

• INORGANIC AND ANALYTICAL CHEMISTRY

1. Mahmood A. Khwaja, Imdadullah, M.S. Hussain and S. Marghoob Ali
“Mass Spectral Studies of Dimorpholinoethane(DME).”
Pak.J.Sci.Ind.Res.,21, 262 (1978)
2. T.J.Cardwell , R.J. Magee, Mahmood A. Khwaja and S. Marghoob Ali
“Spectral Studies on Arsenic, Antimony and Bismuth Alkyl Xanthate Complexes.”
Proc. Pak. Acad. Sci., 1,25 (1979)
3. Mahmood A. Khwaja and A. Kingsford
“ Fertility Studies from Chemical Analyses of Soil of Cape Coast University Agricultural and Research Farm.”
Chemistry and Industry, 1 (2) (1987)
4. Mahmood A. Khwaja, Ismat Khattak Nazir Jan and Hamidullah Khan
“Evaluation of Rock Phosphates by Infrared Spectral and Thermal Analyses.”
J. Anal. and Envir. Chem., 1 (1) , 29 (1990)
5. Viqar Hussain, Mahmood A. Khwaja and M.A.Khattak
“Geochemical Studies of Lambidogi(Hazara) Phosphates, Pakistan.”
Pak. J. Sci. Ind. Res., 37 (7), 265 (1991).
6. Mahmood A. Khwaja and Ismat Khattak
“ Thermogravimetric and Infrared Spectral Analyses for Rapid Evaluation of Rock Phosphates .”
Pak. J. Sci. Ind. Res., 37(9) 365 (1994)
7. Mahmood A. Khwaja, Nazir Jan and M. Rasool Jan
“Mass Spectral Studies of Hydroxamic Acids.”
J. Anal. And Environ. Chem. ,2 (1), 16 (1993).
8. Mahmood A. Khwaja , Ismat Khattak and Mohammad Riaz
“Infrared Spectral, Thermal and Upgradation Studies of Batakna Hazara, NWFP Phosphates.”
J. Chem. Soc. Pakistan., 1995 (Accepted)
9. M.Rasool Jan , Nazir Jan and Mahmood A. Khwaja
“Synthesis and Analytical Applications of Hydroxamic Acids for Determination of Molybdenum.”
J. Chem. Soc. Pakistan, 1995 (Accepted)
10. Mahmood A. Khwaja and Kwame Akyeampong
“ Study on Nutritive Values of Some Ghanian Vegetables Leaves.”
J.Anal. and Environ. Chem. , 1995 3 (1), 46.
11. Nazir Jan, M.Rasool Jan and Mahmood A. Khwaja
“Synthesis and Analytical Application of Hydroxamic Acids for Determination of Vanadium.”
J. Chem. Soc. Pakistan, 19, 4, pp 301 (1997).