

HERMAN J. GIBB

EDUCATION

- 1989 Ph.D., Epidemiology, The Johns Hopkins University
1974 M.P.H., Environmental Health, University of Pittsburgh
1970 B.S., Pre-Medicine, Pennsylvania State University

EXPERIENCE

Dr. Gibb is President of Tetra Tech Sciences (Sciences). He is a recognized international expert on health risk assessment with over 30 years of experience. Since joining Sciences in 2004, Dr. Gibb has provided expert consultation to a variety of international and national clients. Dr. Gibb has been an invited peer reviewer of health risk assessment documents prepared by the U.S. Environmental Protection Agency, the U.S. Food and Drug Administration, the National Institute of Occupational Safety and Health, Health Canada, and the World Health Organization. He is a Scientific Advisor on Risk Assessment for the European Commission. He chairs the World Health Organization's Foodborne Epidemiology Reference Group's (FERG) Chemical Task Force and is a member of FERG's Country Studies and Source Allocation Task Forces. Before joining Sciences, Dr. Gibb held positions as the Associate Director for Health and Assistant Center Director at the National Center for Environmental Assessment of the U.S. Environmental Protection Agency. As the Associate Director for Health, Dr. Gibb was responsible for the Integrated Risk Information System (IRIS), EPA's on-line system of health risk assessments. He was the Project Officer for EPA's cooperative agreements with the World Health Organization. He directed EPA's assessment of inhalation exposures and potential health risks to the general population that resulted from the collapse of the World Trade Center Towers. He is an author of EPA's *Guidelines for Carcinogen Risk Assessment* and EPA's *Risk Assessment Principles and Practices*. He was the recipient of the EPA's Scientific and Technological Achievement Award for his study of lung cancer mortality and clinical irritation among chromate production workers and the recipient of the EPA's Gold Medal for Exceptional Service for his work on the drinking water standard for arsenic. His study of chromate production workers utilized one of the most extensive industrial hygiene data bases ever assembled in its analysis of the lung cancer risk from hexavalent chromium. The study formed the basis of OSHA's Permissible Exposure Limit (PEL) on Hexavalent Chromium. He is an author of the World Health Organization's Environmental Health Criteria Document on *Principles for the Assessment of Risks to Human Health from Exposure to Chemicals* and the World Health Organization's Environmental Health Criteria Document on *Arsenic and Arsenic Compounds*. Dr. Gibb was a member of White House Interagency Committees on Mercury and on Risk Assessment. He was an author of EPA's Mercury Research Strategy. He is a member of the Presidential Advisory Board on Science, Engineering, and Health at the Ana G. Mendez University System in San Juan, Puerto Rico, the Advisory Committee of the United States Transuranium and Uranium Registry, and the International Tissue and Tumor Repository for Chronic Arsenosis Advisory Board at the Armed Forces Institute of Pathology. He belongs to the International Society of Environmental Epidemiology. He is a Professorial Lecturer at the George Washington University School of Public Health and Health Services.

Tetra Tech Sciences (2004- Present)

- Project leader for evaluation of an alleged cancer cluster in Berks County, Pennsylvania
- Project manager for the preparation of Toxicity Profiles for Health Canada
- Reviewed all epidemiologic studies for Health Canada Toxicity Profile on Beryllium

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- Invited peer reviewer of NIOSH Criteria Document Update – Occupational Exposure to Hexavalent Chromium
- Invited peer reviewer of EPA Provisional Toxicity Value for Vanadium and Soluble Inorganic Vanadium Compounds, 4,4'-Dichlorobenzophenone, and 1,1-Sulfonylbis (4-chlorobenzene).
- Chaired peer review of EPA IRIS carcinogen risk assessment on beryllium
- Chaired peer review of EPA IRIS document on chloroprene
- Invited peer reviewer for FDA document on “An Evaluation of Risk to U.S. Consumers from Methylmercury in Commercial Fish Products, Including a Quantitative Assessment of Risk and Beneficial Health Effects from Fish.”
- Invited peer reviewer of Health Canada documents on aluminum salts, chromium pigments, acrylamide, vanadium, and antimony
- Author of World Health Organization document on burden of disease from mercury exposure
- Author of World Health Organization documents on cobalt and cyclic anhydrides
- Appointed as member of World Health Organization’s Foodborne Epidemiology Reference Group in September 2007; chairman of the FERG Task Force on Chemicals in Food
- Retained as expert on health risks from arsenic, asbestos, chromium, iron, manganese, organophosphates, organic solvents, bacteria, disinfection by-products, hydrogen sulfide, and cyanobacteria
- Project manager of EPA IRIS documents on butyl benzyl phthalate and hexachloroethane
- Epidemiologist and lead author of a study of mercury exposure among recycling workers in Gorlovka, Ukraine
- Senior author of draft EPA document on Framework for the Health Assessment of Metals
- Senior author of health assessment of metal waste on Marinduque Island, Philippines
- Provided key expert testimony on epidemiologic study of chromate production workers at OSHA hearings on proposed Permissible Exposure Limit on hexavalent chromium
- Panel member on “A Case Study of a Cancer Risk Assessment: Ethylene Oxide” at the Summer 2006 Toxicology Forum in Aspen, Colorado.
- Authored assessment of epidemiologic data on methylene chloride for EPA’s Integrated Risk Information System (IRIS)
- Provided critical review of scientific reports on reproductive effects alleged to have resulted from pharmaceutical exposure for a large pharmaceutical company
- Assisted in preparation of risk assessment review of various chemicals (arsenic, benzene, ethylene dibromide, copper, manganese, trichloroethane, ethylene glycol) for Ontario Ministry of Environment
- Invited expert to the World Health Organization’s Concise International Chemical Assessment Document Final Review Board meetings in Hanoi, Vietnam (2004), Nagpur, India (2005), and Helsinki, Finland (2007)

Associate Director for Health, National Center for Environmental Assessment, U.S. EPA (2001-2003)

- Directed health risk assessment for EPA’s National Center for Environmental Assessment
- Represented EPA on matters of health risk assessment with the Congress, other Federal agencies, industry, and international organizations.
- Senior official representing the U.S. EPA at peer review meeting on perchlorate in Sacramento, CA
- Interacted with Associate Directors of EPA/ORD Laboratories and Centers for developing a coherent and scientifically defensible program that was responsive to the Agency’s research needs.
- Lead author of the Office of Research and Development’s Multi-year Plan for Research on Mercury
- Member of EPA’s Office of Research and Development’s Science Council
- Supervised EPA’s Integrated Risk Information System (IRIS), an on-line data base of risk assessments conducted by EPA (www.epa.gov/iris)

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- Member of White House Interagency Working Group on Mercury
- Supervised the National Center for Environmental Assessment's Exposure and Human Health Evaluation of Airborne Pollution from the Sept 11, 2001 attacks on the World Trade Center focusing on particulate matter, asbestos, dioxin, metals, PCBs, and volatile organic compounds.
- Directed development of research plan on vermiculite asbestos to examine dose response and exposure
- Project Officer for the Environmental Protection Agency's two cooperative agreements with the World Health Organization
- Chaired the International Technical Advisory Group of the Pan American Health Organization to a study of acute effects of copper ingestion conducted by the University of Chile, Santiago, Chile
- Member of International Program on Chemical Safety's (IPCS) Risk Assessment Steering Group
- Participated on all ten of the IPCS Concise International Chemical Assessment Document Final Review Boards (FRB), and chaired the 4th FRB in Washington, D.C.
- Served on the International Tissue and Tumor Repository for Chronic Arsenosis Advisory Board
- Served on the Presidential Advisory Board, Ana G. Mendez University System, San Juan, Puerto Rico.

Assistant Center Director, National Center for Environmental Assessment, U.S. EPA (1995-2001)

- National Program manager for comprehensive interdisciplinary research efforts to conduct risk assessment and facilitate risk management where such efforts reached across several different environmental media.
- Primary spokesperson on multimedia risk assessment research for the Office of Research and Development with the Regional and National Program offices.
- Member of senior management team for evaluation and award of resources for research projects and cooperative agreements in support of Regional Office programs to multimedia exposures.
- Agency technical expert in the area of multimedia risk assessment research.
- Project Officer for the Agency's two cooperative agreements with the World Health Organization.
- Project Officer for study of ingested arsenic and reproductive effects in a human population in Chile.
- Represented the Agency on the White House Committee on Environment and Natural Resources (CENR) Subcommittees on Toxic Substances and Hazardous and Solid Wastes and on the Subcommittee for Risk Assessment.
- Project Officer on cooperative agreement with the Johns Hopkins University for conduct of epidemiologic study of chromate production workers.
- Expert on the health effects of arsenic, chromium, and nickel.
- Project Officer for major Interagency agreements with the National Institute of Occupational Safety and Health and the National Institute of Environmental Health Sciences
- Member of National Center for Environmental Assessment's Human Resources Committee.
- Provided consultation to a cancer case-control study in Chile examining the association with arsenic exposure for the purpose of developing a cancer dose-response estimate

Special Assistant to the Director, Office of Health and Environmental Assessment, Office of Research and Development, U.S. EPA

- Identified and provided decision briefings to the Office Director on risk assessment issues
- Coordinated meetings, correspondence, and products of the Ad Hoc Working Group of the Federal Coordinating Council on Science and Engineering Technology (FCCSET)
- Project Officer for the Agency's two cooperative agreements with the World Health Organization
- Liaison with the World Health Organization on risk assessment harmonization issues and document preparation

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- Member of World Health Organization Task Force for the preparation of document on Principles of Risk Assessment (Vice-Chairman of task force meeting in London, United Kingdom in 1993)
- Expert on the health effects of arsenic, chromium, and nickel.
- Member of Risk Sciences Institute Rodent Bladder Carcinogenesis Work Group to produce a document on the relationship of rodent bladder cancer to humans
- Member of Risk Sciences Institute Working Group on Meta-analysis to produce guidelines on the use of meta-analysis in human environmental epidemiology studies
- Member of Office Human Resources Committee
- Project officer for major Interagency agreements with the National Institute of Occupational Safety and Health, the U.S. Army, and the National Institute of Environmental Health Sciences
- Epidemiologist on the Carcinogen Risk Assessment Verification Endeavor (CRAVE), the Agency's intra-agency group to approve the entry of carcinogen risk assessments onto its internationally available on-line risk assessment data base known as the Integrated Risk Information System (IRIS).
- Project officer on mortality study of styrene-butadiene workers
- Subject matter expert and contact on the Integrated Risk Information System (IRIS) for arsenic, chromium, and polycyclic aromatic hydrocarbons.
- Project Officer on Memorandum of Understanding between EPA and the National Science Council of Taiwan for the purpose of conducting epidemiologic research in an area of Taiwan where there is endemic arsenic contamination of the water supply
- Provided consultation to a cancer case-control study in Chile examining the association with arsenic exposure for the purpose of developing a cancer dose-response estimate

Lieutenant Colonel and Chief, Patient Accountability Division, Patient Administration Directorate, Walter Reed Army Medical Center (1991)

- Army reservist mobilized for Operation Desert Shield
- Supervised 40 military and civilian personnel in Admissions and Dispositions, Air Evacuation, Hospital Treasury, and Patient Data Sections
- Served, as needed, as Director of the Patient Administration Directorate, supervising 140 military and civilian personnel
- Directed all areas of patient accountability including admission and disposition of patients, billing of patients, air evacuation of patients into and out of Walter Reed, insurance billing, and the computer data base on patients

Team Chief, Toxic Substances and Pesticides Team, Office of Research and Development, U.S. EPA (1990)

- Acting Team Chief from September 1990 to January 1991, supervising four Environmental Protection Specialists
- Directed the team to identify, within the developing regulations and policies of the Office of Pesticides and Toxic Substances, areas of scientific concern to the Office of Research and Development and to orchestrate the scientific input from ORD to those areas of concern

Epidemiologist, Carcinogen Assessment Statistics and Epidemiology Branch, Office of Health and Environmental Assessment, U.S. EPA (1980-1990)

- Acting Branch Chief from September 1989 to March 1990, supervising two epidemiologists and four statisticians.
- Prepared written expert evaluations of epidemiologic studies as part of the carcinogenic assessment of various chemicals
- Expertly reviewed epidemiologic sections and issues prepared by other in-house or outside experts
- Member of CRAVE, the intra-agency committee that reviews Agency carcinogen risk assessments

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(weight-of-evidence classifications and cancer potency estimates) in monthly meetings and approves/disproves them for entry onto the Agency's on-line risk assessment data base (IRIS)

- Chaired the Human Studies Issue Committee which was reviewing the Agency's Carcinogen Risk Assessment Guidelines for possible revisions to the human evidence section; organized an international workshop on the topic which was conducted in June 1989
- Instructor for training on the Agency's Carcinogen Risk Assessment Guidelines
- Project officer on a cooperative agreement to study cancer risk among chromate production workers, a major study being done in collaboration with researchers at the Johns Hopkins University School of Hygiene and Public Health.
- Sponsor and advisor to the International Task Force on the Epidemiologic Assessment of Nickel Exposure attending meetings in Oxford, England and Hilton Head, SC.

Environmental Protection Specialist, Office of Pesticide Programs, U.S. EPA (1977-1980)

- Planned and coordinated the regulatory review of four pesticide chemicals: creosote and coal tar; cacodylic acid; sodium methanearsonate; and 10,10-oxybisphenoxarsine under the Agency's Rebuttable Presumption Against Registration of Pesticide Chemicals process.

Environmental Health Specialist, Office of Planning and Management, U.S. EPA (1976-1977)

- Reviewed process for registration of special pesticides
- Participated in various Agency rulemaking procedures for the pesticide program
- Participated in the establishment of the Agency's Carcinogen Assessment Group

Health Research Specialist, Office of Health Research, U.S. EPA (1974-1976)

- Prepared health research budgets and made recommendations for health research.
- Reviewed and prepared report on the Agency's electromagnetic research program including various recommendations for future research
- Prepared responses to Congressional and public inquiries regarding environmental health research

Patient Administrator, Rank: First Lieutenant, U.S. Beach Army Hospital

- Supervised seven enlisted personnel and seven civilians
- Coordinated medical disability boards
- Chaired clinical record committee meetings
- Chaired tissue infection committee meetings
- Supervised handling of clinical records, admissions and dispositions, hospital statistics, third party liability claims, the hospital treasury, civilian medical claims, registration of births, the disposition of deceased, and CHAMPUS claims

ACADEMIC APPOINTMENTS

Professorial Lecturer, Department Environmental and Occupational Health, George Washington University School of Public Health and Health Services

PROFESSIONAL ASSOCIATIONS

Society for Risk Analysis
International Society of Environmental Epidemiology
Society for Epidemiologic Research
American Public Health Association

PUBLICATIONS

Books

- Gibb HJ, Buckley JP. (2009). Cancer Epidemiology. In: Cancer Risk Assessment – Chemical carcinogenesis and Standards Quantification (Eds. C-H. Hsu and T. Stedeford), John Wiley & Sons, Inc.
- Poulin J, Gibb H (2008). Mercury - Assessing the environmental burden of disease at national and local levels. Environmental Burden of Disease Series, No. 16. Public Health and the Environment. Geneva: World Health Organization. http://whqlibdoc.who.int/publications/2008/9789241596572_eng.pdf
- Kolker, A., Conko, K.M., Landa, E.R., Kozlov, K., Trachtenberg, I., Panov, B.S., Panov, Y.B., Korchemagin, V.A., Shendrik, T., Gibb, H.J., Centeno, J.A., 2007. Health implications of inorganic mercury exposure in Gorlovka, Ukraine. In: Proceedings, 2nd National Conference on USGS Health-Related Research, <http://health.usgs.gov/>
- Gibb H (2004). Procedures for calculating cessation lag – arsenic and smoking as examples. Metal Ions in Biology and Medicine, Vol 8. Eds: MA Cser, I Sziklai László, JC Étienne, Y Maynard, J Centeno, L Khasanova, P Collery. Paris: John Libbey Eurotext pp 452-455.
- Abernathy C, Chakraborti D, Edmonds JS, Gibb H, Hoet P, Hopenhayn-Rich C, et al. (2001). Arsenic and Arsenic Compounds. Environmental Health Criteria 224. Geneva: World Health Organization.
- Editors: Centeno JA, Collery P, Vernet G, Finkelman RB, Gibb HJ, Etienne JC (2000). Metal Ions in Biology and Medicine. London: John Libbey and Company, Ltd.
- Centeno JA, Martinez L, Ladich ER, Page NP, Mullick FG, Ishak KG, Zheng B, Gibb H, Thompson C, Longfellow C (2000). Arsenic-induced Lesions. Washington, DC: Armed Forces Institute of Pathology.
- Aitio A, Aldridge N, Anderson D, Berry CL, Burnett R, Cabral JRP, Cardis E, Cikrt M, Clayson DB, Clegg DJ, Dybing E, Fielder R, Fishbein L, Gibb H, Goddard M, Goldstein B, Hertel R, et al. (1999) Principles for the Assessment of Risks to Human Health from Exposure to Chemicals. Environmental Health Criteria 210. Geneva: World Health Organization.
- Younes M, Meek Me, Hertel RF, Gibb H, Schaum J (1998). Risk Assessment and Management. In: International Occupational and Environmental Medicine (Eds.: W. Bunn III, L. Fleming, I. Gardner, J.M. Harrington, J. Herzstein, J. Jeyaratnam). St Louis: Mosby.
- Gibb, HJ. (1998). Arsenic-tainted Drinking Water: Crisis in India and Bangladesh. In: Encyclopedia Britannica 1998 Medical and Health Annual. London: Encyclopedia Britannica.
- Gibb, HJ. (1997). Advances in EPA's Risk Assessment Methods. In: Advances in Risk Assessment of Copper in the Environment, eds. Lagos and Badilla-Ohlbaum. Santiago: Catholic University of Chile.
- North W, Gibb H, Abernathy C. (1997). Arsenic: Past, Present, and Future Considerations. In: Arsenic - Exposure and Health Effects, eds. Abernathy, Calderon, and Chappell. London: Chapman and Hall.
- Gibb H. (1997) Epidemiology and Cancer Risk Assessment. Fundamentals of Risk Analysis and Risk Management. New York: Lewis Publisher/CRC Press.
- Farland WH, Gibb HJ. (1993) U.S. Perspective on balancing chemical and microbial risks of disinfection. In: Proceedings of the First International Conference on the Safety of Water Disinfection: Balancing Chemical and Microbial Risks. International Life Sciences Institute Press, ed. Carol Henry.
- Gibb HJ, Farland WH (1992). Differences in animal and human responses to carcinogenic metals. Relevance of Animal Studies to the Evaluation of Human Cancer Risk. New York: Wiley-Liss, ed. D'Amato et al., pp 367-379.

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Valaoras G, Cogliano VJ, Gibb HJ (1991). Risk assessment methodology applications in Greece: exposure to pesticides and chromium. Proceedings of the Environmental Health Conference in Greece. Conference held in Mytilene, Greece, September 3-6, 1991.

Gibb HJ, Chen CW (1989). Is inhaled arsenic carcinogenic for sites other than the lung? In: Assessment of Inhalation Hazards. U Mohr, editor-in-chief. Berlin: Springer-Verlag.

Gibb HJ, Chen CW, Hiremath CB (1986). Carcinogen risk assessment of chromium compounds. In: Proceedings of the Chromium Symposium 1986: An Update. Pittsburgh: Industrial Health Foundation.

Journals

Gibb HJ, Haver C, Kozlov K, Centeno JA, Jurgenson V, Kolker A, Conko KM, Landa ER, Xu H. Biomarkers of mercury exposure in two eastern Ukraine cities. Submitted for publication.

Gibb HJ, Hoffman H, Haver C. 2010. Biologic implications from an epidemiologic study of chromate production workers. The Open Epidemiology Journal. Accepted for publication.

Gibb HJ, Haver C, Gaylor D, Ramasamy S, Lee J, Lobdell D, Wade T, Chen C, White P, Sams R. Utility of recent studies to assess the National Research Council 2001 estimates of cancer risk from ingested arsenic. Environmental Health Perspectives. Epub.
<http://ehp03.niehs.nih.gov/article/info:doi/10.1289/ehp.1002427>

Conko KM, Landa ER, Kolker A, Kozlov K, Gibb HJ, Centeno J, Panov B, Panov Y. Source and residential dust as sources of potential human exposure to arsenic and mercury in Horlivka, Ukraine. Submitted for publication.

Gibb HJ, Kozlov K, Poulin-Buckley J, Centeno JA, Jurgenson V, Kolker A, Conko KM, Landa ER, Panov BS, Panov YB, Xu H (2008). Biomarkers of mercury exposure at a mercury recycling facility in Ukraine. Journal of Occupational and Environmental Hygiene 5(8):483-489.

Lorber M, Gibb H, Grant L, Pinto J, Pleil J, Cleverly D (2007). Assessment of inhalation exposures and potential health risks to the general population that resulted from the collapse of the World Trade Center Towers. Risk Analysis 27(5):1203-1221.

Gibb HJ, Scialli A. 2005. Letter to the editor of the American Journal of Medical Genetics re: Edison and Muenke (2004) Mechanistic and epidemiologic considerations in the evaluation of adverse birth outcomes following gestational exposure to statins. American Journal of Medical Genetics 135A:230-231.

Scialli A, Gibb H. 2005. Letter to the editor of Birth Defects Research re: Yauck et al. (2004) Proximity of Residence to Trichloroethylene-Emitting Sites and Increased Risk of Offspring Congenital Heart Defects among Older Women. Birth Defects Res A Clin Mol Teratol. 73(4):255

Kolker A, Panov BS, Kundiev YI, Trachtenberg IM, Gibb HJ, Korchemagin VA, and Centeno JA. 2004. Mercury in the environment from past mining and use of mercury-enriched coal: the example of Gorlovka, Ukraine. Abstract. Proceedings of the Geological Society of America.

Park RM, Bena JF, Stayner LT, Smith RJ, Gibb HJ, Lees PSJ. (2004) Hexavalent chromium and lung cancer in the chromate industry: a quantitative risk assessment. Risk Analysis 24(5): 1099-1108.

Gibb HJ, Lees PSJ, Pinsky P (2004). Letter to the Editor, Re: The carcinogenicity risk assessment of chromium compounds. American Journal of Industrial Medicine 45(3): 310.

Lorber M, Gibb H, Grant L, Pinto J, and Liroy P. (2004) Assessment of inhalation exposures and potential health risks that resulted from the collapse of the World Trade Center. Environmental Manager, February, 27-29.

Hopenhayn C, Ferreccio C, Browning SR, Huang B, Peralta C, Gibb H, Hertz-Picciotto I. (2003)

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- Arsenic exposure from drinking water and birthweight. *Epidemiology* 14(5):593-602.
- Chen C, Gibb H. Procedures for calculating cessation lag. (2003) *Regulatory Toxicology and Pharmacology* 38(2): 157-165.
- Gibb HJ (2002). Current perspectives on issues in risk assessment methods. *Human and Ecological Risk Assessment* 8(6):1249-1251.
- Gibb HJ, Checkoway H, Stayner L (2002). Improving risk assessment: priorities for epidemiologic research. *Human and Ecological Risk Assessment* 8(6):1397-1404.
- Centeno JA, Mullick FG, Martinez L, Page N, Gibb H, Longfellow D, Thompson C, Ladich ER (2002). Pathology related to chronic arsenic exposure. *Environmental Health Perspectives* 110(5):883-886.
- Centeno JA, Mullick FG, Martinez L, Gibb H, Longfellow D, Thompson C (2002). Chronic arsenic toxicity: an introduction and overview. *Histopathology* 41(2):320-340.
- Centeno JA, Mullick FG, Gibb HJ, Longfellow D, Thompson C. (2001). The International Tissue and Tumor Repository for Chronic Arseniasis at the Armed Forces Institute of Pathology. *Environmental Health Perspectives* 109(10):465.
- Gibb HJ, Lees PSJ, Pinsky P, Rooney BC. (2000). Lung cancer among workers in chromium chemical production. *American Journal of Industrial Medicine* 38:115- 126.
- Gibb HJ, Lees PSJ, Pinsky P, Rooney BC. (2000). Clinical findings of irritation among chromium chemical production workers. *American Journal of Industrial Medicine* 38:127-131.
- Hopenhayn-Rich C, Browning SR, Hertz-Picciotto I, Ferreccio C, Peralta C, Gibb H (2000). Chronic arsenic exposure and risk of infant mortality in two areas of Chile. *Environmental Health Perspectives* 108:667-73.
- Abernathy C, Chappell W, Gibb H, Guo HR, Meek B. (1996). Roundtable Summary: Is ingested inorganic arsenic (As_i) a threshold carcinogen? *Fundamental and Applied Toxicology*. *Fundamental and Applied Toxicology* 29: 168-175.
- Blair A, Burg J, Foran J, Gibb H, Greenland S, Morris R, Raabe G, Savitz D, Teta J, Wartenberg D, Wong O, Zimmerman R. (1995). Guidelines for application of meta-analysis in environmental epidemiology. *Regulatory Toxicology and Pharmacology* 22:189-197.
- Burin GJ, Gibb HJ, Hill RN. (1995). Human bladder cancer: evidence for a potential irritation-induced mechanism. *Food and Chemical Toxicology* 33(9):785-795.
- Samet JM, Schnatter R, Gibb H. 1998. Invited commentary: epidemiology and risk assessment. *American Journal of Epidemiology* 148(10): 929-936.
- Valentine JL, Cebrian ME, Garcia-Vargas GG, Faraji B, Kuo J, Gibb HJ, Lachenbruch PA. (1994) Daily selenium intake estimates for residents of arsenic endemic areas. *Environmental Research* 64:1-9.
- Chen CW, Gibb HJ, Moini, A (1991). Models for analyzing data in initiation-promotion studies. *Environmental Health Perspectives* 90:287-291.
- Gibb HJ, Chen CW (1989). Evaluation of issues relating to the carcinogen risk assessment of chromium. *The Science of the Total Environment* 86:181-186.
- Brown KG, Boyle KE, Chen CW, Gibb HJ (1989). A dose-response analysis of skin cancer from inorganic arsenic in drinking water. *Risk Analysis* 9(4):519-528.
- Gibb HJ, Chen CW (1986). Multiplicative model interpretation of additive and multiplicative carcinogenic effects. *Risk Analysis* 6(2):167-170.
- Gibb HJ, Chen CW (1984). Risk assessment of complex mixtures. *Environmental Science Research*

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32:353-361.

Anderson E, Albert R, McGaughy R, Anderson L, Bayard S, Bayliss D, Chen C, Chu M, Gibb H, Haberman B, Hiremath C, Singh D, Thorslund T (1983). Quantitative approaches in use to assess cancer risk. *Risk Analysis* 3(4):277-295.

Contributing Author of EPA Publications

An Examination of EPA Risk Assessment Principles and Practices. Office of the Science Advisor Staff Paper. EPA/100/B-04/001, March 2004. <http://www.epa.gov/osa/pdfs/ratf-final.pdf>

Exposure and Human Health Evaluation of Airborne Pollution from the World Trade Center Disaster (External Review Draft) - 2002 <http://cfpub2.epa.gov/ncea/cfm/recordisplay.cfm?deid=54667>

Special Report on Ingested Inorganic Arsenic: Skin cancer; Nutritional Essentiality (Authored the epidemiology assessment section and part of the quantitative risk assessment section) - 1988

Health Assessment Document for Nickel and Nickel Compounds (Authored part of the epidemiology assessment section) - 1986

Health Assessment Document for Perchloroethylene (Authored the epidemiology assessment section) - 1985

Health Assessment Document for Ethylene Oxide (Authored the epidemiology assessment section) - 1985

Health Assessment Document for Trichloroethylene (Authored the epidemiology assessment section) - 1985

Health Assessment Document for Inorganic Arsenic (Authored the epidemiology assessment section) - 1984

Carcinogen Assessment of Coke Oven Emissions (Authored the epidemiology assessment section and part of the quantitative risk assessment section) – 1984

Health Assessment Document for Chromium (Authored the epidemiology assessment and part of the quantitative assessment section) - 1984

Rebuttable Presumption of Registration Against Creosote (Authored entire document. Published in Federal Register October 12, 1978)

Rebuttable Presumption of Registration Against Cacodylic Acid (Authored entire document. Published in Federal Register)

Rebuttable Presumption of Registration Against Monosodium Methanearsonate (Authored entire document. Published in Federal Register)

Rebuttable Presumption of Registration Against Disodium Methanearsonate (Authored entire document. Published in Federal Register)

Rebuttable Presumption of Registration Against 10,10-oxybisphenoxarsine (Authored entire document. Published in Federal Register)

PRESENTATIONS

Scientific

“The utility of studies since the NRC 2001 report on arsenic to estimate lung and bladder cancer risk at low concentrations in drinking water.” Poster at Society for Toxicology meeting in Salt Lake City, UT,

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March 2010. Authors: Ramasamy S, Lee J, Lobdell D, Wade T, Chen C, White P, Sams R., Haver C, Gibb HJ. Presenter: Ramasamy R.

"Estimating the Global Burden of Disease from Foodborne Chemicals" Poster at session on Food Policy and Lifestyles, International Society of Environmental Epidemiology meeting in Dublin, Ireland, August 25-29, 2009. Author: H.Gibb.

"Estimation of the Burden of Disease from Methyl Mercury in Various Global Regions", presentation at the International Society of Environmental Epidemiology meeting in Dublin, Ireland, August 25-29, 2009. Authors: Gibb H, Buckley J.

Interview with Lisa Myers, NBC Nightly News regarding chromium exposure to soldiers at Qarmat Ali, Iraq. Program aired December 30, 2009. <http://www.msnbc.msn.com/id/3032619/#34636039>

Gibb, Herman. 2009. Senate Committee on Veterans Affairs Hearing "VA/DOD Response to Certain Military Exposures", October 8, 2009, 562 Senate Dirksen Office Building, Testimony of Herman J. Gibb, PhD, MPH. http://veterans.senate.gov/hearings.cfm?action=release.display&release_id=30a42850-fce1-4ea1-af98-3119c6eb806c

Gibb, Herman. 2009. Senate Democratic Policy Committee Hearing "The Exposure at Qarmat Ali: Did the Army Fail to Protect U.S. Soldiers Serving in Iraq?" August 3, 2009. 608 Dirksen Senate Office Building. Testimony of Herman J. Gibb, PhD, MPH. <http://dpc.senate.gov/hearings/hearing49/gibb.pdf>

"Exposure Potential of As and Hg to Residents of Gorlovka, Ukraine", poster presentation at the 10th International Conference on the Biogeochemistry of Trace Elements in Chihuahua, Mexico, July 13-16, 2009. Authors: Conko KM, Landa ER, Kolker A, Kozlov K, Gibb HJ, Centeno J, Panov B, Panov Y.

"Mercury and arsenic in the soil and water of Gorlovka, Ukraine", presented at the Society of Environmental Toxicology and Chemistry (SETAC) annual meeting, Milwaukee, Wisconsin, November 11-15, 2007. Authors: Conko KM, Landa ER, Kolker A, Kozlov K, Gibb H.

"Social, Environmental, and Health Impacts of a Large-scale Tailings Spill on Marinduque Island, the Philippines", presented at the Geological Society of America annual meeting, Philadelphia, PA, October 22, 2006. Authors: Wnuk C, Boyle T, Centeno J, David CP, Gibb H, Logsdon M, Longacre J, Madson J, Miller H, Plumlee G.

"Assessment of the Feasibility of Conducting a Health Effects Study in a Mercury-rich Area of Ukraine", presented at the International Conference on Environmental Epidemiology & Exposure, Paris, France, September 2-6, 2006. Authors: Gibb H, Koslov K, Poulin J, Centeno J, Jurgenson V, Kolker A, Conko K.

"Environmental and Occupational Exposure to Inorganic Mercury in Gorlovka, Ukraine", presented at the 8th International Conference on Mercury as a Global Pollutant, Madison, Wisconsin, August 6-11, 2006. Kolker A (Presenting Author), Panov B, Conko K, Koslov K, Panov Y, Gibb H, Centeno J, Trachtenberg I, Korchemagin V, Shendrik T, Gunchenko V, Shkvar A, Poulin J.

Panel member on "A Case Study of a Cancer Risk Assessment: Ethylene Oxide" at the Summer 2006 Toxicology Forum in Aspen, Colorado.

"Health Risks from Long Term Mercury Exposure", presented at the 9th International Symposium on Metal Ions in Biology and Medicine, Lisbon, Portugal, May 2006. Authors: Centeno JA, Kolker A, Gibb HJ, McCarthy S, Kozlov K, Conko K, Todorov T, van der Voet G, Xu H.

"Potential Health Risks from Long Term Mercury Exposure in Gorlovka, Ukraine", Poster presentation at the Society for Risk Analysis meeting, Orlando, FL, December 2005. Authors: Gibb HJ, Kozlov K, Centeno J, Kolker A, Conko K, Reiss R.

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“Statement of OSHA Expert Witness, Herman Gibb, on Study of Chromate Production Workers” Informal Public Hearing for the Proposed Rule on Hexavalent Chromium, Occupational Safety and Health Administration, U.S. Department of Labor, Auditorium, DOL Building, 200 Constitution Avenue, Washington, DC, Tuesday, February 1, 2005.

“Procedures for Calculating Cessation Lag – Arsenic and Smoking as Examples”, presented at the 8th International Symposium on Metal Ions in Biology and Medicine, Budapest, Hungary, May 2004.

“OSHA's Hexavalent Chromium Standard Rulemaking—Some Potentially Relevant Risk Assessments”, presented at the American Industrial Hygiene Association Meeting Session on OSHA’s Hexavalent Chromium Standard Rulemaking – Status and Issues, Atlanta, GA, May 2004.

“Lung Cancer and Irritation Among Workers in Chromium Chemical Production”, presented at Department of Environmental and Occupational Health Symposium, George Washington University Graduate School of Public Health, March, 2004.

“Chemical Risk Assessment in the USA”, presented at the Workshop on Bulgarian Priorities in Chemical Risk Assessment and Management, Sofia, Bulgaria, September 2003.

“Report of Federal Working Group on Pathology for the New Millennium”, presented at meeting on Pathology for the New Millennium, sponsored by the Surgeon General of the U.S. Army, Walter Reed Army Medical Center, November, 2001.

“Toxic Metals and Carcinogenesis”, “Considerations for Design of Epidemiologic Studies”, “Considerations for Risk Assessment of Metals”, presented at Workshop on Risk Assessment of Metals Workshop, INGEOMIN, Caracas, Venezuela, July 2001.

Co-chairperson, Arsenic: Human Exposure and Effects, Session of the 6th International Symposium on Metal Ions in Biology and Medicine, San Juan, Puerto Rico, May 8, 2000.

“Analysis of Mortality Among Chromate Production Workers”, presented at Plenary Session of the 6th International Symposium on Metal Ions in Biology and Medicine, San Juan, Puerto Rico, May 8, 2000.

“Improving the Health Risk Assessment for Low Exposures to Arsenic and Chromium”, American Occupational Health Conference, Philadelphia, May 19, 2000.

“Considerations for Design of Epidemiologic Studies”, “Considerations for Risk Assessment of Metals” presented at Work Shop on Risk Assessment of Metals at the School of Science and Technology, Jackson State University, Jackson, Mississippi, March 1999.

“Lung Cancer Exposure Response Among Workers in Chromium Chemical Production” presented at the AESF/EPA Conference for Environmental Excellence, Orlando, Florida, January 1999.

“Chromium - Hazard Identification and Dose Response Assessment”, presented at the Common Sense Initiative Metal Finishing Subcommittee meeting, Washington, D.C., June 2, 1997.

“Advances in EPA’s Risk Assessment Methods” (author - H. Gibb), keynote address presented at the Risk Assessment of Copper in the Environment Workshop, Renaca, Chile, May 7-9, 1997.

“Carcinogenic Risk from Ingested Arsenic” (author - H.Gibb), presented at the National Research Council, Committee on Toxicology, Subcommittee on Arsenic in Drinking Water meeting, National Academy of Sciences, Washington, D.C., March 26-27, 1997.

“EPA’s Proposed Carcinogen Risk Assessment Guidelines: Impact for Use of Human Data in Quantitative Risk Assessment” (author - H.Gibb), presented at the Incorporating Human Data in Quantitative Risk Assessment (QRA) for Carcinogens: Issues, Status, and Future Needs Symposium at the Society for Risk Analysis Annual Meeting, New Orleans, LA, December 9-11, 1997. Also chaired session on uncertainty analysis in the Symposium.

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"Chromium - Case Study" (author H. Gibb), presented at the International Workshop on the Risk Assessment of Metals and Their Inorganic Compounds, Angers, France, November 13-15, 1996.

"Assessing the Health Risk of Arsenic" (author H. Gibb), keynote address presented at the International Seminar on Arsenic Exposure, University of Chile, Santiago, Chile, October 8 - 10, 1996.

"Carcinogenic Dose Response of Hexavalent Chromium" (authors Gibb, Chen, Lees, Pinsky, and Rooney), presented at the Chromium Symposium - 1996, hosted by the Industrial Health Foundation, Arlington, VA, April 23-24, 1996. Also co-chaired session on Epidemiology/human effects at the symposium.

"Potential Epidemiologic Study of the Situation in West Bengal" (author H. Gibb), presented at the International Conference on Arsenic in Ground Water: Cause, Effect and Remedy, Calcutta, India, February 6-8, 1995.

"Using measurable indicators of human health in comparative risk analysis and in evaluating progress in risk management" (author H. Gibb), presented at the 2nd International Comparative Risk Analysis Symposium - Priority Setting of Environmental Issues, held in Taipei, Taiwan, November 14-16, 1994.

"Arsenic toxicity" (author H. Gibb), presented at the Seminar on Chelation Therapy for Acute and Chronic Metal Intoxication, Great Lakes Association of Clinical Medicine, Pittsburgh, PA, September 14-15, 1994.

"Carcinogen risk assessment on arsenic - advantages of an epidemiologic study in Chile" (author H. Gibb), presented at the University of Chile, Santiago, Chile, June 1994.

"Can we detect a carcinogenic risk from arsenic-contaminated drinking water in the United States?" (author H. Gibb) presented at the American Chemical Society Meeting, held in Chicago, IL, August, 1993.

"Carcinogenic risk assessment of arsenic" (author H. Gibb) presented at the International Conference on Arsenic Exposure and Health Effects, held in New Orleans, LA, July 28-30, 1993.

"Are children more sensitive to carcinogens? Arsenic as an example" (author H. Gibb) presented at the U.S. Environmental Protection Agency Risk Assessment Forum Colloquium, "Children as a Sensitive Subpopulation", held May 10, 1990 in Washington, D.C.

"Differences in animal and human responses to carcinogenic metals" (authors H. Gibb and W. Farland) presented at the Conference on "Relevance of Animal Studies to Evaluate Human Cancer Risk", held in Austin, Texas December 6-8, 1991.

"Limitations with the use of human data in risk assessment" (author H. Gibb) presented at a meeting of the Committee on Risk Assessment Methodology, National Research Council, National Academy of Science held April 6, 1990 in Washington, D.C.

"Carcinogenic risk assessment of chromium in relation to a chromium-contaminated hazardous waste site" (author H. Gibb) presented at a meeting on Chromium Contamination in Jersey City, New Jersey held April 11-12, 1990 at the New Jersey Department of Environmental Protection, Trenton, New Jersey.

"Is inhaled arsenic carcinogenic for sites other than the lung?" (authors H. Gibb and C. Chen) presented at the symposium: "Assessment of Inhalation Hazards" held February 19-24, 1989 at the Hannover Medical School, Hannover, Federal Republic of Germany.

"Carcinogen Risk Assessment Issues Related To Ingestion of Arsenic" presented at National Science Council of Taiwan meeting in Taipei, Taiwan and at Cheung Kung Medical School, Tainan, Taiwan in June 1988.

"Evaluation of issues relating to the carcinogenic risk assessment of chromium" (authors H. Gibb and C. Chen) presented at the symposium: "Chromium Paradox in Modern Life" held May 23-24, 1988 at the

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National Library of Medicine, Bethesda, MD.

"Carcinogen Risk Assessment of Chromium Compounds" (authors H. Gibb, C. Chen, and C. Hiremath) presented at the symposium: "Chromium symposium 1986 - an update" held May 20-21 at the Marriott-Crystal Gateway, Arlington, VA.

EPA Carcinogen Risk Assessment Guidelines and Risk Assessment Presentations

<u>Location and Date</u>	<u>Audience</u>
Boston, MA 1992	Regional Risk Assessment Workshop (Included industry, consultants, and state, local, and federal government personnel)
Headquarters (Washington) 1990	Office of Pesticides personnel
Headquarters (Washington) 1989	Representatives of Pan American Health Organization
San Juan, Puerto Rico 1989	EPA Field Office personnel, Commonwealth personnel
Johns Hopkins University	Environmental epidemiology students
EPA Region I (Boston) 1988	Regional and state personnel
Headquarters (Washington) 1987	Carcinogen Assessment Group
Region VIII (Denver) 1987	Regional and state personnel
Bethesda, MD 1994	National Institutes of Health course on risk assessment; focus of the course was on metals
Fairfax, VA 1993	Panel member along with representatives from OSHA, NIOSH, and MSA at the American Mining Congress Training Course on Risk Assessment
Savannah, GA 1993	Training course on risk assessment; part of the annual meeting of the Society for Risk Analysis
Juneau, AK 1992	Participated in a public hearing on Alaska state arsenic standards for drinking water and fish consumption as an expert scientist on the carcinogenicity of arsenic
Crystal City, VA 1992	Refractories Institute
Johns Hopkins University 1991	Attendees of the Johns Hopkins Summer Course in Epidemiology
Johns Hopkins University 1990	Attendees of the Johns Hopkins Summer Course in Epidemiology
Washington, D.C., 1990	Japanese Iron & Steel Executives
Newcastle, Delaware 1990	Delaware State Air Quality Board
Pittsburgh, Pennsylvania 1989	Allegheny County Air Quality Board
Johns Hopkins University 1989	Attendees of the Johns Hopkins Summer Course in Epidemiology
Amherst, Mass. 1989	State personnel, consultants, industry
Tucson, AZ 1987	Citizens meeting; Television press conference (During both presentations, I evaluated a cancer mortality study of persons exposed to trichloroethylene via the drinking water supply that had been conducted by the State of Arizona)

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St. Louis, MO 1986

Air Pollution Control Assoc. meeting

Chicago, IL 1986

Air Pollution Control Assoc. meeting

INVITED EXPERT

Appointed as member of World Health Organization's Foodborne Epidemiology Reference Group (FERG) in September 2007; chairman of the FERG Task Force on Chemicals in Food; Member of Country Studies Task Force and Source Attribution Task Forces; Appointment will end in approximately 2013 or 14. Attended annual FERG meetings in Geneva, Switzerland in 2007, 2008, 2009, 2010. Attended Source Attribution Task Force meetings in Kuala Lumpur, Malaysia in 2007 and Atlanta, GA in 2010. Chaired Chemical and Toxins Task Force meetings in Geneva in 2008 and 2009 and in Tunis, Tunisia in 2010.

Invited participant at World Health Organization Foodborne Disease Surveillance Epidemiology Reference Group Task Force on Chemicals meeting, Geneva Switzerland, June 29, 2007. Made presentation on the burden of disease from methylmercury-contaminated fish.

Invited participant at World Health Organization Consultation to Develop a Strategy to Estimate the Global Burden of Foodborne Diseases, Geneva, Switzerland, September 25-27, 2006. Made a presentation on foodborne disease from chemicals.

Member of the Scientific Advisory Committee, U.S. Transuranium and Uranium Registry, Washington State University, Pasco, Washington.

Invited by OSHA to present expert testimony at the public hearings on a Proposed Permissible Exposure Limit for Hexavalent Chromium, February 1, 2005.

Member of U.S. Presidential Advisory Board on Science, Health and Engineering to the Ana G. Mendez University System, San Juan, Puerto Rico. Chairman of the Research Committee and Member of Retention Committee.

Member of the International Tissue and Tumor Repository for Chronic Arseniasis Steering Committee at the Armed Forces Institute of Pathology, Washington, D.C.

Member of the International Scientific Committee of the International Symposium on Metals in Biology and Medicine 2001-2004.

Invited Co-chair of the session on Biological Implications of Metal Ions at the International Symposium on Metal Ions in Biology and Medicine, Budapest, Hungary, May 2004.

At the invitation of the International Program on Chemical Safety (IPCS), served as a member of the IPCS Risk Assessment Steering Group 2001-2004.

At the invitation of the Pan American Health Organization, chaired an International Technical Advisory Group to a University of Chile epidemiology study of the acute effects resulting from copper ingestion. Meetings in Washington, D.C., Santiago, Chile, and Pucon, Chile 2000-2003.

At the invitation of the International Program on Chemical Safety, participated in Task Force meetings on Environmental Health Criteria Document on Arsenic, Brisbane, Australia (Nov 1999) and London, England (Oct 2000), document published as EHC 224, Arsenic and Arsenic Compounds (Second Edition), 2001.

At the invitation of Catholic University, Santiago, Chile, participated on an advisory committee for an exposure assessment project on copper, 1997-2000. Meetings held in Santiago, Chile.

Invited member of the International Program on Chemical Safety's Concise International Chemical Assessment Document Final Review Boards in Brussels, Belgium (Nov 1996), Washington, D.C.

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(Chairman) (Nov 1998), Stockholm, Sweden (Nov 1999), Tokyo, Japan (June 1998), Sydney, Australia (Nov 1999), Helsinki, Finland (June 2000), Geneva, Switzerland (Jan 2001), Ottawa, Canada (Oct 2001), Monks Wood, England (September 2002), Varna, Bulgaria (September 2003), Hanoi, Vietnam (September 2004), Nagpur, India (November 2005), and Helsinki, Finland (2007). Invited as part of a small consultation to finalize CICAD on hexavalent chromium in Bradford, England (2010).

Invited member of the Concise International Chemical Assessment Document Steering Group Committee, Research Triangle Park, NC (January 1995); London, United England (September 1997); and Hannover, Germany (October 1998).

Participated as a member of the U.S. delegation to the International Forum on Chemical Safety, Ottawa, Canada, January 1997. Drafted the U.S. position on risk assessment.

At the invitation of the International Programme on Chemical Safety, participated on a working group to develop a document on Principles of Risk Assessment, Geneva, Switzerland, September 1996.

At the invitation of the ILSI Risk Science Institute, participated in a 2 day workshop on Human Variability, Doubletree Hotel, Washington, D.C., October 1995.

At the invitation of the Brookings Institution, served on an Advisory Committee for Curriculum Development of the Brookings Institution's Issues in Science and Technology Policy Seminar, Brookings Institution, Washington, D.C., October 1995.

At the invitation of the Department of Environmental Studies, Jadavpur University, Calcutta, India, participated in the International Conference on Arsenic in Ground Water: Cause, Effect, and Remedy, Calcutta, India, 6-8 February, 1995, and provided consultation on steps to evaluate an arsenic contamination of drinking water problem in West Bengal, India.

At the invitation of the Department of Energy, participated in a panel review of proposals submitted to the Department of Energy to support Risk Assessment and Risk Management practices in Environmental Management (November 1994).

At the invitation of the Department of Physical Sciences and Mathematics of the University of Chile, Santiago, Chile, served as an advisor to a study of arsenic exposure and cancer risk in Chile (April 1994).

At the invitation of the United Arab Emirates, provided consultation to that government on chromium contamination of drinking water wells in the Emirate of Abu Dhabi, in Abu Dhabi (September 1993).

At the invitation of Health Canada, provided consultation to that agency on epidemiologic studies on nickel refinery workers for use in a dose-response analysis on nickel and on cancer dose-response assessment for chromium exposure using an epidemiologic study, in Ottawa, Canada (May 1993).

At the invitation of the Republic of China (Taiwan) Environmental Protection Administration, provided training to Taiwan EPA, scientists, engineers, chemists, and risk management personnel on comparative risk assessment in Taipei, Taiwan (April 19-23, 1993).

At the invitation of the BIBRA Toxicology International, attended meetings in London, England to prepare a World Health Organization International Program on Chemical Safety document on Scientific Principles for Assessment of Risk To Human Health Associated With Chemical Exposures, March 1992 and March 1993. Served as Vice-chairman of the March 1993 session.

At the invitation of the Canadian government, invited to Ottawa, Canada by Health and Welfare Canada to provide consultation regarding the health effects of chromium and nickel (May 1993).

At the invitation of the Canadian government, provided consultation to Health and Welfare Canada regarding the health effects of arsenic Ottawa, Canada (November 1990)

At the invitation of the Bulgarian government, provided consultation to the Bulgarian Ministries of Health and Agriculture regarding arsenic contamination of the Topolonitza River (September 1990)

Continued HERMAN J. GIBB

At the invitation of the New Jersey Department of Environmental Protection, provided expert consultation regarding chromium contamination of Jersey City (January - April, 1990); Reviewed State of New Jersey risk assessment of chromium-contaminated site at Jersey City (July 1992); Invited to Trenton, N.J. to discuss the New Jersey risk assessment in August 1992.

PEER REVIEWER

Invited by Health Canada to peer review documents on aluminum salts, chromium pigments, acrylamide, vanadium, and antimony 2008-2010

Invited by U.S. EPA to chair peer review panel on IRIS document on chloroprene. 2010.

Invited by U.S. FDA to peer review document on "An Evaluation of Risk to U.S. Consumers from Methylmercury in Commercial Fish Products, Including a Quantitative Assessment of Risk and Beneficial Health Effects from Fish." 2009

Invited by U.S. EPA to chair peer review panel on carcinogenicity section on beryllium. 2009.

Invited to peer review U.S. EPA Provisional Toxicity Value manuscripts on vanadium, 4,4'-Dichlorobenzophenone, and 1,1-Sulfonylbis (4-chlorobenzene) in 2009 and 2,4,6 trichloroaniline, fluorobenzene, titanium, and tricaine methanesulfonate and stearyl acetate in 2010.

Invited by the New Jersey Department of Environmental Protection to peer review the December 4, 2004 New Jersey Chromium Workgroup Report, March 2005.

"Probabilistic Integrated Framework Can Assess Human Arsenic Exposure Risks through Farmed Tilapia Consumptions", a journal article submitted to the *Archives of Environmental Contamination and Toxicology*, March 2005.

"Dietary metals, phytochemicals and cancer", a journal article submitted to *Ecotoxicology and Environmental Safety*, January 2005.

"The use of observational human data for risk assessment", a journal article submitted to *Risk Analysis*, October 2004.

"Evaluating emerging issues in epidemiology", a journal article submitted to *Environmental Health Perspectives*, March 2004.

"Trace elements in the general population vs. cancer patients", a research funding proposal submitted to Fonds zur Forderung der wissenschaftlichen Forschung, Vienna, Austria, December 2002.

"Biological gradient between long term arsenic exposure and carotid atherosclerosis", an article submitted to *Circulation*, December 2001.

"Lung cancer mortality in nickel/chromium platers - 1946-95", an article submitted to *Occupational and Environmental Medicine*, March 1997.

"Quantitative risk assessments derived from occupational cancer epidemiology: a worked example", an article submitted to *Occupational and Environmental Medicine*, March 1997.

"Using Ecological Data to Estimate a Regression Model for Individual Data: The Association between Arsenic in Drinking Water and Incidence of Skin Cancer", an article submitted to *Environmental Research*, January 1996.

"Unit risk estimates for airborne arsenic exposure: an updated view based on recent data from two copper smelter cohorts" an article submitted to *Regulatory Toxicology and Pharmacology*, 1994.

"Nickel and its Compounds", a criteria document prepared by Health Canada, September 1993.

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"Chromium", a criteria document prepared by Health Canada, April 1993.

"Health Risk Assessment, Appendix: International Risk Assessment", prepared by the Office of Technology Assessment, U.S. Congress, January 1993.

"Proposal for Funding to Develop Urinalysis Monitor for Detection of Occupational Exposure to Arsenic", prepared by Klohn Leonoff, Consulting Engineers for the Industrial Research Assistance Program of the National Research Council of Canada, December 1990.

"Health Effects of Coal Tar Products and Bitumens", prepared by the Occupational Health Program, McMaster University, Hamilton, Ontario for the Ontario Ministry of Labour, Ontario, Canada, September 1986.

"Retrospective Cohort Mortality Study of Dry Cleaner Workers Using Perchloroethylene", prepared by David Brown, National Institute of Occupational Safety and Health, and Samuel Kaplan, Stanford Research Institute, for the National Institute of Occupational Safety and Health, Cincinnati, Ohio, December 1985.

Proposal to the March of Dimes for funding to study "Childhood Cancer and Occupational Exposure", 1984.

HONORS AND AWARDS

- 2002 EPA Gold Medal for Exceptional Service
- 2002 Special Commemorative EPA Award for September 11 Activities, World Trade Center Particulate Matter Toxicological Assessment Team
- 2002 Scientific and Technological Achievement EPA Award Level III
- 2002 EPA Bronze Medal for Commendable Service
- 2001 U.S. EPA's National Center for Environmental Assessment's Peer Award for International Environmental Protection
- 1997 EPA Bronze Medal in recognition of the Multimedia Research Coordination Team
- 1985 EPA Bronze Medal for Commendable Service