US ERA ARCHIVE DOCUMENT

Index for Docket F-2001-ICMF-FFFFF Final Rule: Listing Determination for Inorganic Chemicals

Background Documents

- US EPA. October 2001. "Response to Comments Document, Overview / Contents."
- US EPA. October 2001. "Response to Comments Document, Vol. I: Responses to Comments Numbers ICMP -00001 through ICMP -00012."
- US EPA. October 2001. "Response to Comments Document, Vol. II: Responses to Comments Numbers ICMP -00013 through ICMP -00021."
- US EPA. October 2001. "Response to Comments Document, Vol. III: Responses to Comment Number ICMP-00022, E.I. du Pont de Nemours."
- US EPA. October 2001. "Response to Comments Document, Vol. IV: Responses to Comments Numbers ICMP -00023 through ICMP -L0005."
- US EPA. October 2001. "Response to Comments Document, Vol. V: Responses to Comments Numbers ICMP -L0005 through ICMP -L0021."
- US EPA. October 2001. "Best Demonstrated Available Technology (BDAT) Background Document For Inorganic Chemical Production Wastes K176, K177, K178."
- US EPA. October 2001. "Background Document for Capacity Analysis for Land Disposal Restrictions; Inorganic Chemical Production Wastes (Final Rule)."
- US EPA. June 2001. "Revised Antimony Oxide Listing Background Document for the Inorganic Chemical Listing Determination."
- US EPA. October 2001. "Revised Boric Acid Listing Background Document for the Inorganic Chemical Listing Determination."
- US EPA. October 2001. "Final Titanium Dioxide Listing Background Document for the Inorganic Chemical Listing Determination."
- US EPA. August 2001. "Economic Analysis for Listing of Inorganic Chemicals, Notice of Final Rulemaking."
- US EPA. October 2001. "Appendix A Consideration of Cost Implications of Adding Manganese to Part 261 Appendix VIII."
- US EPA. June 2001. "Waste Characterization Report for U.S. Antimony Corporation Thompson Falls, Montana, Final Report Revised."

- ICF Consulting. August 21, 2001. Memorandum to Jim Michael, US EPA, "Background Information for the Inventory Correction Worksheet (ICW) Associated with the Proposed Hazardous Waste Listings for Wastes from the Production of Inorganic Chemicals."
- US EPA. October, 2001. "Assessment of Analytical Data Submitted by DuPont In Response to Proposed Inorganic Chemical Industry Hazardous Waste Determination for K178."
- US EPA. Laboratory Analytical Batch Results containing ICP Total, TCLP and SPLP Analyses of DuPont Iron Rich Sample (DPE-SO-01).
- US EPA. October 31, 2001. Final Rule Changes Resulting from OMB Comments.
- US EPA. October, 2001. Environmental Fact Sheet. "Three Inorganic Chemicals Now Listed as Hazardous Wastes."

Meeting Notes and Phone Logs

- US EPA. September 27, 2000. "Conference Call on Inorganic Chemical Manufacturing Wastes Listing Proposed Rule; DNREC, EPA Region 3, and EPA Headquarters.
- US EPA. October 5, 2000. "Discussion with DuPont Regarding 9/14/00 Proposal for Inorganic Chemical Manufacturing Listing Determination."
- US EPA. October 5, 2000. "Discussion with the State of Delaware, DEQ, Hazardous Waste Enforcement Staff and EPA's Region III Enforcement Staff to Debrief Them on the EPA OSW Call with Du Pont on 10/5/200."
- US EPA. October 10, 2000. "Discussion with the State of Montana, DEQ, Hazardous Waste Staff regarding 9/14/2000 Proposal for Inorganic Chemical Manufacturing Listing Determination."
- US EPA. October 23, 2000. Record of meeting on October 12, 2000 between EPA staff and representatives of E.I. du Pont de Nemours and Company.
- US EPA. October 26, 2000. "Discussion with DuPont regarding 9/14/2000 Proposal for Inorganic Chemical Manufacturing Listing Determination."
- US EPA. January 4, 2001. "Summary of Phone Conversation with Matthew Higgins, Delaware Department of Natural Resources and Environmental Control." Memorandum from Patricia Overmeyer, EPA to RCRA Docket F-2001-ICMF-FFFFF.
- US EPA. January 12, 2001. "Discussion with DuPont regarding 9/14/2000 Proposal for Inorganic Chemical Manufacturing Listing Determination."
- US EPA. January 30, 2001. "Summary of Conference Call between EPA/OSW, EPA Region 3, and Delaware DNREC staff.

- US EPA. February 16, 2001. "Summary of Phone Conversation with John Bartholomeo, Arny Corp of Engineers." Memorandum from Patricia Overmeyer, EPA to RCRA Docket F-2001-ICMF-FFFFF.
- US EPA. February 27, 2001. "February 23, 2001 Meeting with Du Pont." Note to File from David Layland, EPA.
- US EPA. February 28, 2001. "Notes from Call with U.S. Antimony re: Reduction and Oxidation Furnaces."
- US EPA. March 8, 2001. "Notes from Call with U.S. Antimony re: Old Slag Pile."
- US EPA. March 9, 2001. "Notes from Call with State of Texas re: Cookson Site, Laredo, Texas."
- US EPA. March 14, 2001. "Notes from Conference call with Frank Boenning, Lowenstein and Sandler, PC Regarding the Cookson Site, Laredo, Texas."
- US EPA March 26, 2001. "Discussion with the Manganese Group regarding 9/14/2000 Proposal for Inorganic Chemical Manufacturing Listing Determination."
- US EPA. March 29, 2001. "Notes from Call with U.S. Antimony and Montana DEQ."
- US EPA. May 4, 2001. "Summary of Meeting Between EPA's Office of Solid Waste and Representatives from DuPont, April 3, 2001."
- US EPA. July 2, 2001. Memorandum from Max Diaz to file. Phone conversation with Ms. Virginia Wilson of Ohio EPA concerning the disposal of chloride process solids from the MIC Ashtabula Plants 1 & 2.
- US EPA. July 3, 2001. Phone log for discussion with EPA Region 2 Enforcement Inspectors on Region 2 inspection of Amspec, Inc. in Gloucester City, New Jersey.
- US EPA. August 16, 2001. "Meeting Notes, Cookson Group plc with OSW staff."
- US EPA. October 10, 2001. Phone log for discussion with Eastman Chemical re: RCRA permit and groundwater monitoring requirements; general Region/State use of Appendix VIII for groundwater monitoring requirements.

General References

US EPA. October 10, 2001. "Revised Sampling and Analytical Data Report for Record Sampling and Characterization of Wastes from the Inorganic Sodium Chlorate and Titanium Dioxide Manufacturing Sectors."

- RTI International. October 11, 2001. "TRI Manganese Releases to Land at Facilities with Subtitle C Landfills."
- Boenning, Franklin W., Lowenstein Sandler, PC. September 26, 2001. Letter to Mr. Bryon Allen, Office of Management and Budget, "Proposed Rule: Docket No. F-2000-ICMP-FFFFF (65 Fed Reg 55684 September 14, 2000).
- US EPA. January 23, 2001. Letter to Guy V. Johnson, E.I. du Pont de Nemours and Company from David Bussard.
- US EPA. March 26, 1986. "Above-Ground Land Emplacement Facilities, N.J. Law." Letter from J. Winston Porter, Assistant Administrator to Honorable James J. Florio, Chairman Subcommittee on Commerce, Transportation and Tourism, US House of Representatives.
- US EPA. September 26, 2001. "Denial Letters Sent to Facilities who had Asked for Extension to the Comment Period fo the Inorganics Listing Rule." Note from Sue Burnell, EPA to file.
- WWW.teahealth.co.uk.tp/content/factfile/minerals.htm Undated. "Tea & Health Facts."
- USGS. June, 2001. Mineral Industry Surveys "Antimony in the First Quarter 2001."
- USGS. December, 2000. Mineral Industry Surveys "Antimony in the Third Quarter 2000."
- USGS. August, 2000. Mineral Industry Surveys "Antimony in the Second Quarter 2000."
- USGS. June, 2000. Mineral Industry Surveys "Antimony in the First Quarter 2000."
- Carlin, James F. Jr., USGS Factsheet, "Antimony."
- Montana Department of Environmental Quality, Hard Rock Program. June 7, 2000. "Operating Permit Field Inspection Report."
- www.chemxpo.com/news/profile.cfm November 27, 2000. "Ferric Chloride."
- US EPA. October 25, 2000. "Raw Analytical Data for Dupont Edge Moor, DE Facility." Memorandum from Gwen DiPietro, EPA to RCRA Docket.
- Center for Advanced Mineral & Metallurgical Processing; Montana Tech of the University of Montana, Butte, Montana. September 10, 2001. "Cookson Antimony Process Slag Conceptual Treatment Plant Study."
- US EPA. January 16, 2001. "Inorganic Chemicals Listing Determination Explanation of TCLP and SPLP Thallium Laboratory Reported Detection Limits." Memorandum to Ashley Allen, EPA from Ray Anderson, SAIC.
- NTIS. July 30, 2001. "NAICS Frequently Asked Question."

- 66 FR 26241. May 14, 2001. EPA Resource Conservation and Recovery Act / Semiannual Regulatory Agenda.
- Lowenstein Sandler, August 1, 2001. Letter from Frank W. Boenning to Sue Burnell, EPA. "Proposed Rule: Hazardous Waste Management System Identification and Listing of Hazardous Waste (Docket No. F-2000-ICMP-FFFF) 65 Fed. Reg. 55684 (September 14, 2000)," with analytical report attached.
- US EPA. May 7, 2001. "Documents Used in Preparing a Response to Comment on the Bevill Status of Wastes from Barium Carbonate Production." Note from Stephen Hoffman, EPA to RCRA Docket.
- US EPA. February 21, 2001. "Additional Information from E.I. duPont Nemours, November 30, 2000." Memorandum from Gwen DiPietro, EPA to RCRA Docket.
- US EPA. September 9, 1999. "Sampling and Analytical Data Report for Record Sampling and Characterization of Wastes from the Inorganic Titanium Dioxide Manufacturing Sector; Kemira Pigments, Inc."
- SAIC. November 7, 2000. Chain of Custody Records for the Kerr-McGee Samples.
- Du Pont. January 9, 2001. Proposed Meeting Agenda and Handouts.
- US EPA. October 11, 2001. Letter from Elizabeth Cotsworth, Director, EPA Office of Solid Waste to Franklin Boenning, Associate Lowenstein Sandler, PC.
- Delaware Department of Natural Resources and Environmental Conservation Section 2. Scope and Applicability." From Delaware Code, Chapter 60. www.dnrec.state.de.us/dnrec2000/Divisions/AWM/hw/sw/swreg.htm.
- VFL Technology Corporation. January 6, 2000. "DuPont Iron-Rich Utilization VFL Technology Approval Application."
- US EPA June 28, 2001. "Kerr-McGee Pigments, Savannah, GA." Note to file from Maximo Diaz, EPA.
- US EPA August 7, 2001. "Quarantine Road Landfill; Millennium, Baltimore, MD." Memorandum from Max Diaz, EPA to Docket File," with attachments.
- Millennium Chemicals Company. January 15, 20001. "Re: Quarantine Road Landfill," E-mail correspondence from F. Martin, Millennium Chemicals to Max Diaz, EPA, with attachment.
- US EPA. January 17, 2001. "Millenium Inorganic Chemicals (MIC) Quarantine Road Landfill Groundwater Flow Information," Memorandum from Max Diaz, EPA to Edward Dexter, Chief, Field Operations & Projects Division, Maryland Department of the Environment, with attachments.

Du Pont, Edge Moor. 2001. Analytical Data and Modeling Files to Support Analysis for Inorganics Listing Comments (Compact Disk).

Risk Assessment References

- ACGIH (American Conference of Governmental Industrial Hygienists). 1996. *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.* Supplement: Manganese, Elemental and Inorganic Compounds. Cincinnati, OH. 6 page(s).
- American Academy of Pediatrics. January, 1998. Soy protein-based formulas: Recommendations for use in infant feeding. *Pediatrics*. 101(1):148-153.
- ATSDR (Agency for Toxic Substances and Disease Registry). July, 1992. *Toxicological Profile for Manganese and Compounds*. U.S. Public Health Service. 7 page(s).
- ATSDR (Agency for Toxic Substances and Disease Registry). June 27, 1996. Minimal risk levels for priority substances and guidance for derivation; republication. Notice. *Federal Register*. 61 FR 33511 33520. 14 page(s).
- ATSDR (Agency for Toxic Substances and Disease Registry). July 30, 1997. Announcement of final priority data needs for 12 priority hazardous substances and call for voluntary research proposals. *Federal Register*. 62 FR 40820-40828. 15 page(s).
- ATSDR (Agency for Toxic Substances and Disease Registry). September, 1997. *Draft Toxicological Profile for Aluminum*. Public Health Service, U.S. Department of Health and Human Services, Research Triangle Park, NC. 9 page(s).
- ATSDR (Agency for Toxic Substances and Disease Registry). September, 2000. *Toxicological Profile for Manganese*. Public Health Service, U.S. Department of Health & Human Services, Atlanta, GA.. 9 page(s).
- Banta, R.G., and W.R.Markesbery. March, 1977. Elevated manganese levels associated with dementia and extrapyramidal signs. *Neurology*. 27:213-216.
- Bear, J. 1972. *Dynamics of Fluids in Porous Media*. Dover Publications, Inc., Mineola, N.Y. 15 page(s).
- Beck, M.A., and O.A.Levander. 1998. Dietary oxidative stress and the potentiation of viral infection. *Annual Review of Nutrition*. 18:93-116.
- Beems, R.B. March, 1986. Dietary selenium- and benzo(a)pyrene-induced respiratory tract tumors in hamsters. *Carcinogenesis*. 7(3):485-489.
- Berkow,R. (editor). Chapter 135. Vitamins and Minerals. In: The Merck Manual of Medical Information Home Edition. 1997. Whitehouse Station, NJ. Merck Research Laboratories. 23 page(s).
- Bolger, P.M., and C.D. Carrington. 1998. Dietary intake of manganese. Presented at the Fifteenth International Neurotoxicology Conference. *Manganese*, *Are There Effects from Long-Term, Low-Level Exposure?* October 26-29, 1997; Little Rock, Arkansas. In:

- *NeuroToxicology*, J.Cranmer, D.Mergler, and M.William-Johnson (eds.), Volume 19(3). Little Rock, AK, Intox Press. 9 page(s).
- Brenniman, G.R., and P.S.Levy. 1984. Chapter 21: Epidemiological study of barium in Illinois drinking water supplies. In: *Advances in Modern Environmental Toxicology Volume IX, Inorganics in Drinking Water and Cardiovascular Disease*, E.J.Calabrese, R.W.Tuthill, and L.Condie (eds.), Princeton Scientific Publishing Co., Inc., Princeton, NJ. pp. 231-240.
- Cawte, J., G.Hams, and C.Kilburn. May 30, 1987. Manganism in a neurological ethnic complex in northern Australia. *The Lancet*. 1(8544):p. 1257.
- Cawte, J., C. Kilburn, and M. Florence. 1989. Motor neuron disease of the western pacific: Do the foci extend to Australia? *Neurotoxicology*. 10(2):263-270.
- Clayton, G.D. and F.E. Clayton. (editor). Patty's Industrial Hygiene and Toxicology. Volume 2A, Toxicology. 1981. Third Revised edition. New York, NY. John Wiley & Sons. 25 page(s).
- Clayton, G.D. and F.E. Clayton. (editor). Patty's Industrial Hygiene and Toxicology. Volume I, Part A, General Principals. 1991. Fourth edition. New York, NY. John Wiley and Sons, Inc. 3 page(s).
- H.J.Clewell, and K.S.Crump 2000. Determination of an Occupational Exposure Guideline for Manganese Using the Benchmark Method. Ruston, LA. 43 page(s).
- Coates, R.J., N.S. Weiss, J.R. Daling, J.S. Morris, and R.F. Labbe. September, 1988. Serum levels of selenium and retinol and the subsequent risk of cancer. *American Journal of Epidemiology*. 128(3):515-523.
- Collipp, P.J., S.Y.Chen, and S.Maitinsky. 1983. Manganese in infant formulas and learning disability. *Annals of Nutrition and Metabolism.* 27(1):488-494.
- Cotzias, G.C., K. Horiuchi, S. Fuenzalida, and I. Mena. April, 1968. Chronic manganese poisoning. Clearance of tissue manganese concentrations with persistence of the neurological picture. *Neurology*. 18:376-382.
- Crump, K.S., and P.Rousseau. 1999. Results from eleven years of neurological health surveillance at a manganese oxide and salt producing plant. *Neurotoxicology*. 20(2-3):273-286.
- Cuvin-Aralar, L.A., and R.W. Furness. June, 1991. Mercury and selenium interaction: a review. *Ecotoxicology and Environmental Safety.* 21(3):348-364.
- DDNREC (Delaware Department of Natural Resources and Environmental Control). March, 1988. A Site Inspection Follow-up of The Pigeon Point Landfill. PA/SI Cooperative Agreement No. V-003350-01-0. Division of Waste Management, Wilmington, DE. 22 page(s).
- Deutsch, W.J. Stein, J. and A.W.Jr. Starkweather (eds.). 1997. *Groundwater Geochemistry*, *Fundamentals and Applications to Contamination*. Lewis Publishers, Boca Raton, FL. 5 page(s).

- Devenyi, A.G., T.F.Barron, and A.C.Mamourian. April, 1994. Dystonia, hyperintense basal ganglia, and high whole blood manganese levels in Alagille's Syndrome. *Gastroenterology*. 106:1068-1071.
- Donaldson, J. 1987. The physiopathologic significance of manganese in brain: Its relationship to schizophrenia and neurodegenerative disorders. *Neurotoxicology*. 8(3):451-462.
- E.I.du Pont de Nemours and Company. March 12, 2001. Response to Request for Supplemental Information, With Respect to DuPont's January 15, 2001 Modeling Analysis Submission Part 2. 13 page(s).
- Ejima, A., T.Imamura, S.Nakamura, H.Saito, K.Matsumoto, and S.Momono. February 15. 1992. Manganese intoxication during total parenteral nutrition (letter). *The Lancet*. 339:426.
- Ellingsen, D.G., R.I.Holland, Y.Thomassen, M.Landro-Olstad, W.Frech, and H.Kjuus. August, 1993. Mercury and selenium in workers previously exposed to mercury vapour at a chloralkali plant. *British Journal of Industrial Medicine*. 50(8):745-752.
- Fechter, L.D. April/June, 1999. Distribution of manganese in development. *Neurotoxicology*. 20(2-3):197-202.
- Freeland-Graves, J. 1994. Chapter 6: Derivation of Manganese Estimated Safe and Adequate Daily Dietary Intakes. In: *Risk Assessment of Essential Elements*, W.Mertz, C.O.Abernathy, and S.S.Olin (eds.), International Life Sciences Institute, Washington, D.C. pp. 237-252.
- Frink, C.R. October, 1996. A perspective on metals in soils. *Journal of Soil Contamination*. 5(4):329-359.
- Frost, D.V. 1983. What do losses in selenium and arsenic bioavailability signify for health? *The Science of the Total Environment*. 28:455-466.
- Gilmore, D.A., and A.C.Bronstein. 1992. Chapter 85: Manganese and Magnesium. In: *Hazardous Materials Toxicology. Clinical Principals of Environmental Health*, J.B.Sullivan Jr and G.R.Krieger (eds.), Williams & Wilkins, Baltimore, MD. pp. 896-902.
- Giroden, F., P.Galan, A.Monget, M.Boutron-Ruault, P.Brunet-Lecomte, P.Preziosi, J.Arnaud, J.Manuguerra, and S.Hercberg. April 12, 1999. Impact of trace elements and vitamin supplementation on immunity and infections in institutionalized elderly patients. *Archives of Internal Medicine*. 159(7):748-754.
- Gradient Corporation, September, 2000. Evaluation of the Norris and Hubbard Critique of the MINTEQA2 and EPACMTP Models. Cambridge, MA. 27 page(s).
- Greger, J.L. February, 1998. Dietary standards for manganese: Overlap between nutritional and toxicological studies. *The Journal of Nutrition*. 128(2S):368S-371S.
- Greger, J.L. 1999. Nutrition versus toxicology of manganese in humans: Evaluation of potential biomarkers. *Neurotoxicology*. 20(2-3):205-212.

- Guthrie, H.A. 1971. *Introductory Nutrition*. Second edition. The C.V. Mosby Company, Saint Louis, MO. 9 page(s).
- Harr, J.R., J.F.Bone, I.J.Tinsley, P.H.Weswig, and R.S.Yamamoto. 1967. Chapter 10: Selenium toxicity in rats. II. Histopathology. In: *Symposium: Selenium in Biomedicine. First International Symposium Oregon State University*, 1966., O.H.Muth, J.E.Oldfield, and P.H.Weswig (eds.), The AVI Publishing Company, Inc., Westport, CN. 29 page(s).
- Hauser, R.A., T.A. Zesiewicz, A.S. Rosemurgy, C. Martinez, and C.W. Olanow. December, 1994. Manganese intoxication and chronic liver failure. *Annals of Neurology*. 36(6):871-875.
- Hauser, R.A., T.A.Zesiewicz, C.Martinez, A.S.Rosemurgy, and C.W.Olanow. May, 1996. Blood manganese correlates with brain magnetic resonance imaging changes in patients with liver disease. *The Canadian Journal of Neurological Science*. 23(2):95-98.
- He,P., D.Liu, and G.Zhang. February 18, 1994. Effects of high-level manganese sewage irrigation on childrens' neurobehavior. *Chinese Preventive Medicine Journal.* 7 page(s).
- Hehr, T., W.Hoffmann, and M.Bamberg. Septmeber 15, 1997. Role of sodium selenite as an adjuvant in radiotherapy of rectal carcinoma. *Med Klin* 97(Supplement 3):48-9. (Abstr.). 1 page.
- Hocman, G. 1988. Chemoprevention of cancer: Selenium. *The International Journal of Biochemistry*. 20(2):123-132.
- Horvath, P.M., and C.Ip. November, 1983. Synergistic effect of vitamin E and selenium in the chemoprevention of mammary carcinogenesis in rats. *Carcer Research*. 43(11):5335-5341.
- HSI GeoTrans. January, 2001. Review of Groundwater Modeling for Chloride-IImenite Wastewater Treatment Solids Underlying EPA's September 14, 2000 Inorganic Chemical Manufacturing Waste Proposal. Prepared for E.I.du Pont de Nemours and Company. 24 page(s).
- HSI GeoTrans. March 13, 2001. Supplementary EPACMTP Monte Carlo Simulations in Response to Comments and Questions Arising From February 23, 2001 Meeting With EPA Regarding Groundwater Modeling Underlying EPA's September 14, 2000 Inorganic Chemical Manufacturing Waste Proposal. Prepared for Dupont Company. 14 page(s).
- Hughes, D.A. February, 1999. Effects of dietary antioxidants on the immune function of middle-aged adults. *Proceedings of the Nutrition Society*. 58(1):79-84.
- Hurley, L.S., and C.L.Keen. 1987. Chapter 6: Manganese. In: *Trace Elements in Human and Animal Nutrition Fifth Edition*, W.Mertz (ed.), Volume 1 Academic Press, Inc., San Diego, CA. 26 page(s).

- IPCS (International Programme on Chemical Safety). 1999. *Concise International Chemical Assessment Document No. 12. Manganese and Its Compounds*. World Health Organization, Geneva, Switzerland. 41 page(s).
- Iwami, O., T. Watanabe, C. Moon, H. Nakatsuka, and M. Ikeda. 1994. Motor neuron disease on the Kii Peninsula of Japan: Excess manganese intake from food coupled with low magnesium in drinking water as a risk factor. *The Science of the Total Environment*. 149:121-135.
- Johnson,B.L., and C.T.DeRosa. 1997. The toxicologic hazard of superfund hazardous waste sites. *Reviews on Environmental Health*. 12(4):235-251. Website at http://www.atsdr/cdc.gov/toxhazsf.htm.
- R.H.Johnston (Delaware Geological Survey). June, 1973. *Hydrology of the Columbia* (*Pleistocene*) *deposits of Delaware: An appraisal of a regional water-table aquifer. Bulletin No. 14.* Newark, DE. 20 page(s).
- R.H.Johnston (Delaware Geological Survey). May, 1977. Digital Model of the Unconfined Aquifer in Central and Southeastern Delaware. Bulletin No. 15. Newark, DE. 11 page(s).
- R.R.Jordan September, 1964. *Columbia (Pleistocene) Sediments of Delaware. Delaware Geological Survey Bulletin No. 12.* Newark, Delaware. 33 page(s).
- Kawamura, R., H.Ikuta, S.Fukuzumi, R.Yamada, and S.Tsubaki. 1941. Intoxication by manganese in well water. *Kitasato Archives*. Volume XVIII. 27 page(s).
- Klaassen, C.D. (editor). Casarett and Doull's Toxicology: The Basic Science of Poisons. 1996. Fifth edition. New York, NY. The McGraw-Hill Companies, Inc. 18 page(s).
- Koerner, R.M. 1998. *Designing With Geosynthetics*. 4th edition. Prentice Hall, Upper Saddle River, NJ. 12 page(s).
- Koller, L.D., J.H. Exon, P.A. Talcott, C.A. Osborne, and G.M. Henningsen. March, 1986. Immune responses in rats supplemented with selenium. *Clinical and Experimental Immunology*. 63(3):570-576.
- Kondakis, X.G., N.Makris, M.Leotsinidis, M.Prinou, and T.Papapetropoulos. May/June, 1989. Possible health effects on high manganese concentration in drinking water. *Archives of Environmental Health.* 44(3):175-178.
- Kool, J.B., P.S. Huyakorn, E.A. Sudicky, and Z.A. Saleem. 1994. A composite modeling approach for subsurface transport of degrading contaminants from land-disposal sites. *Journal of Contaminant Hydrology*. 17:69-90.
- Krachler, M., E.Rossipal, and D.Micetic-Turk. June, 1999. Trace element transfer from mother to the newborn investigations on triplets of colostrum, maternal and umbilical cord sera. *European Journal of Clinical Nutrition.* 53(6):486-494.

- Lee,S., H.E.Allen, C.P.Huang, D.L.Sparks, P.F.Sanders, and W.J.G.M.Peijnenburg. 1996. Predicting soil-water partition coefficients for cadmium. *Environmental Science and Technology*. 30(12):3418-3424.
- Levander, O.A., and R.F.Burk. 1994. Chapter 12: Selenium. In: *Modern Nutrition in Health and Disease*, 8th edition, M.E.Shils, J.A.Olson, and M.Shike (eds.), Lea & Febiger, Malvern, PN. 22 page(s).
- Longnecker, M.P., P.R. Taylor, O.A. Levander, S.M. Howe, C. Veillon, P.A. McAdam, K.Y. Patterson, J.M. Holden, M.J. Stampfer, J.S. Morris, and W.C. Willett. May, 1991. Selenium in diet, blood, and toenails in relation to human health in a seleniferous area. *The American Journal of Clinical Nutrition*. 53(5):1288-1294.
- Lonnerdal, B. 1985. Dietary factors affecting trace element bioavailability from human milk, cow's milk and infant formulas. *Progress in Food and Nutrition Science*. 9(1/2):35-62.
- Lonnerdal, B. 1989. Trace element absorption in infants as a foundation to setting upper limits for trace elements in infant formulas. *The Journal of Nutrition*. 119(12S):1839-1845.
- Lonnerdal, B. July, 1997. Effects of milk and milk components on calcium, magnesium, and trace element absorption during infancy. *Physiological Reviews*. 77(3):643-669.
- Lundquist, A.H. 1999. Thesis Abstract: Chemical and Biological Removal of Iron and Manganese from Drinking Water. *Montana State University Center for Biofilm Engineering*November 22. Website at http://www.erc.montana.edu. (Abstr.). 2 page(s).
- McCauley, P.T., B.H.Douglas, R.D.Laurie, and R.J.Bull. 1985. Chapter XVIII: Investigations into the effect of drinking water barium on rats. In: *Advances in Modern Environmental Toxicology. Volume IX, Inorganics in Drinking Water and Cardiovascular Disease*, E.J.Calabrese, R.W.Tuthill, and L.Condie (eds.), Princeton Scientific Publishing Company Inc., Princeton, NJ. 19 page(s).
- Medina, D. 1986. Chapter 33: Mechanisms of selenium inhibition of tumorigenesis. In: *Essential Nutrients in Carcinogenesis*, L.A.Poirier, P.M.Newberne, and M.W.Pariza (eds.), Plenum Press, New York, NY. 14 page(s).
- Menkes, M.S., G.W. Comstock, J.P. Vuilleumier, K.J. Helsing, A.A. Rider, and R. Brookmeyer. November 13, 1986. Serum beta-carotene, vitamins A and E, selenium, and the risk of lung cancer. *The New England Journal of Medicine*. 315(20):1250-1254.
- Mergler, D., M.Baldwin, S.Belanger, F.Larribe, A.Beuter, R.Bowler, M.Panisset, R.Edwards, A.De Geoffroy, M.Sassine, and K.Hudnell. 1999. Manganese neurotoxicity, a continuum of dysfunction: results from a community based study. Presented at the Fifteenth International Neurotoxicology Conference, *Manganese Are There Effects from Long-Term, Low-level Exposure?* In: *Neurotoxicology*, April/June, J.Cranmer, D.Mergler, and M.William-Johnson (eds.), Volume 20(2-3). 22 page(s).
- F.J.Molz, and C.Neville 1994. *Review of EPACMTP*. 22 page(s).

- NAS (National Academy of Science). 2001. Dietary Reference Intakes for Vitamin A, Vitamin K. Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium, and Zinc. A Report of the Panel on Micronutrients, Subcommittees on Reference Levels of Nutrients and of Interpretation and Use of Dietary Reference Intakes, and the Standing Committee on the Scientific Evaluation of Dietary Reference Intakes. Food and Nutrition Board, Institute of Medicine, Washington, DC. 23 page(s)...
- Navarro-Alarcon, M., and M.C.Lopez-Martinez. April 17, 2000. Essentiality of selenium in the human body: relationship with different diseases. *The Science of the Total Environment*. 249(1-3):347-371. 27 page(s).
- C.H.Norris, and C.E.Hubbard June, 1999. *Use of MINTEQA2 and EPACMTP to Estimate Groundwater Pathway Risks from the Land Disposal of Metal-Bearing Wastes*. Environmental Defense Fund, Friends of the Earth, Hoosier Environmental Council, and Mineral Policy Center. 78 page(s).
- NRC (National Research Council). 1973. *Toxicants Occurring Naturally in Foods*. Food and Nutrition Board, Committee on Food Protection, Washington, DC. 6 page(s).
- NRC (National Research Council). 1980. *Mineral Tolerance of Domestic Animals*. Subcommittee on Mineral Toxicity in Animals, Committee on Animal Nutrition, Commission on Natural Resources, Washington, DC. 17 page(s).
- NRC (National Research Council). 1989. *Diet and Health: Implications for Reducing Chronic Disease Risk*. Food and Nutrition Board, Committee on Diet and Health, Commission on Life Sciences, Washington, D.C. 15 page(s).
- NTP (National Toxicology Program). January, 1994. *Toxicology and Carcinogenesis Studies of Barium Chloride Dihydrate (CAS No. 10326-27-9) in F344/N Rats and B6C3F*₁ *Mice (Drinking Water Studies)*. NTP TR 432. Public Health Service, National Institutes of Health, Research Triangle Park, NC. 12 page(s).
- S.Phillips 1987. Hydrogeology, Degradation of Ground-water Quality, and Simulation of Infiltration from the Delaware River into the Potomac Aquifers, Northern Delaware. Water-Resources Investigations Report 87-4185. Delaware Department of Natural Resources and Environmental Control, Towson, MD. 18 page(s).
- Pihl,R.O., and M.Parkes. October 14, 1977. Hair element content in learning disabled children. *Science*. 198(4313):204-206.
- Pomier-Layrargues, G., C.Rose, L.Spahr, J.Zayed, L.Normandin, and R.F.Butterworth. 1998. Role of manganese in the pathogenesis of portal-systemic encephalopathy. *Metabolic Brain Disease*. 13(4):311-317.
- Robert J.Giraud. March 12, 2001. EPA Request for Supplemental Information with Respect to Jan. 15, 2001 Modeling Analysis Submission Part 2 Docket Number F-2000-ICMP-FFFF.Letter to Mr.David Layland (U.S. EPA, Office of Solid Waste) from DuPont Engineering, Wilmington, DE. 146 page(s).

- Rodier, J. 1955. Manganese poisoning in Moroccan miners. *British Journal of Industrial Medicine*. 12:21-35.
- Roels,H., R.Lauwerys, P.Genet, M.J.Sarhan, M.de Fays, I.Hanotiau, and J.P.Buchet. 1987. Relationship between external and internal parameters of exposure to manganese in workers from a manganese oxide and salt producing plant. *American Journal of Industrial Medicine*. 11(3):297-305.
- Roels, H., G.Meiers, M.Delos, I.Ortega, R.Lauwerys, J.P.Buchet, and D.Lison. 1997. Influence of the route of administration and the chemical form (MnCl2, MnO2) on the absorption and cerebral distribution of manganese in rats. *Archives of Toxicology*. 71(4):223-230.
- Roels, H.A., M.I.O.Eslava, E.Ceulemans, A.Robert, and D.Lison. April/June 1999. Prospective study on the reversibility of neurobehavioral effects in workers exposed to manganese dioxide. *Neurotoxicology*. 20(2-3):255-272.
- Rose, C., R.F.Butterworth, J.Zayed, L.Normandin, K.Todd, A.Michalak, L.Spahr, P.Huet, and G.Pomier-Layrargues. September, 1999. Manganese deposition in basal ganglia structures results from both portal-systemic shunting and liver dysfunction. *Gastroenterology*. 117(3):640-644.
- Rouff, W. 1995. Relative bioavailability of manganese ingested in food or water. In: *Workshop on the Bioavailability and Oral Toxicity of Manganese*, Cincinnati, OH, August 30-31st, 1994, Cincinnati, OH, U.S. Environmental Protection Agency. 18 page(s).
- Rukgauer, M., J.Klein, and J.D.Kruse-Jarres. 1997. Reference values for the trace elements copper, manganese, selenium, and zinc in the serum / plasma of children, adolescents, and adults. *Journal of Trace Elements in Medicine and Biology*. 11:92-98.
- Shamberger, R.J. April, 1970. Relationship of selenium to cancer. I. Inhibitory effect of selenium on carcinogenesis. *Journal of the National Cancer Institute*. 44(4):931-936.
- Simonoff, M., C.Sergeant, N.Garnier, P.Moretto, Y.Llabador, G.Simonoff, and C.Conri. 1992. Antioxidant status (selenium, vitamins A and E) and aging. In: *Free Radicals and Aging*, I.Emerit and B.Chance (eds.), Birkhauser Verlag, Basel, Switzerland. 37 page(s).
- Spahr, L., R.F.Butterworth, S.Fontaine, L.Bui, G.Therrien, P.C.Milette, L.H.Lebrun, J.Zayed, A.Leblanc, and G.Pomier-Layrargues. November, 1996. Increased blood manganese in cirrhotic patients: Relationship to pallidal magnetic resonance signal hyperintensity and neurological symptoms. *Hepatology*. 24(5):1116-1120.
- Spallholz, J.E. 1994. On the nature of selenium toxicity and carcinostatic activity. *Free Radical Biology and Medicine*. 17(1):45-64.
- Spencer, A., and G.D.Diet. October, 1999. Whole blood manganese levels in pregnancy and the neonate. *Nutrition*. 15(10):731-734.

- N.Spoljaric, and K.D.Woodruff (Delaware Geological Survey). August, 1970. *Geology, hydrology, and geophysics of Columbia sediments in the Middletown-Odessa Area, Delaware. Bulletin No. 13.* Newark, DE. 11 page(s).
- Stastny, D., R.S. Vogel, and M.F. Picciano. June, 1984. Manganese intake and serum manganese concentration of human milk-fed and formula-fed infants. *The American Journal of Clinical Nutrition*. 39(6):872-878.
- R.W.Sundstrom, and T.E.Pickett. July, 1971. *The Availability of Ground Water in New Castle County, Delaware*. Water Resources Center, University of Delaware, Newark, DE. 48 page(s).
- R.W.Sundstrom, T.E.Pickett, and R.D.Varrin (University of Delaware Water Resource Center). September, 1976. *Hydrology, Geology, and Mineral Resources of the Coastal Zone of Delaware*. Technical Report No. 3. Delaware Coastal Zone Management Program, Newark, DE. 15 page(s).
- TERA (Toxicological Excellance for Risk Assessment). 2001. ITER Peer Review Meeting Summary. Meeting held June 14 and 15, 1999, University of Cincinnati, College of Medicine. Inorganic Arsenic and Prenatal Malformations: A Comprehensive Evaluation for Human Risk Assessment; and Barium Reference Dose. Cincinnati, OH. Website at http://www.tera.org/Peer/finalsum699.html. 22 page(s).
- Thompson, H.J., and P.J.Becci. 1979. Effect of graded dietary levels of selenium on tracheal carcinomas induced by 1-methyl-1-nitrosourea. *Cancer Letters*. 7(4):215-219.
- Todd, D.K. 1959. Groundwater Hydrology. John Wiley & Sons Inc., New York, NY. 13 page(s).
- USDA (Department of Agriculture). October, 1970. *Soil Survey New Castle County, Delaware*. Soil Conservation Service. 9 page(s).
- U.S. EPA (Environmental Protection Agency). May 19, 1980. Hazardous waste management system: Identification and listing of hazardous waste. Final rule, Interim final rule, and request for comments. *Federal Register* 45 FR 33084 33133. 51 page(s).
- U.S.EPA (Environmental Protection Agency). October, 1983. *Process Design Manual for Land Application of Municipal Sludge*. EPA-625/1-83-016. Municipal Environmental Research Laboratory, Office of Research and Development, Cincinnati, OH. 15 page(s).
- U.S.EPA (Environmental Protection Agency). May, 1984. *Health Assessment Document for Manganese*. EPA 600/8-83-013F. Office of Research and Development, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH, 3.56-3.60. 22 page(s).
- U.S.EPA (Environmental Protection Agency). May 1, 1986. *Quality Criteria for Water 1986*. EPA 440/5-86-001. Office of Water Regulations and Standards, Washington, DC. 13 page(s).

- U.S. EPA (Environmental Protection Agency). August 6, 1986. Hazardous waste management system; identification and listing of hazardous waste; final rule. *Federal Register*. 51 FR 28296 28310. 16 page(s).
- U.S. EPA (Environmental Protection Agency). October 20, 1988. Mining waste exclusion. Notice of Proposed Rulemaking. *Federal Register*. 53 FR 41288 41300. 14 page(s).
- U.S. EPA (Environmental Protection Agency). April 17, 1989. Mining waste exclusion under Subtitle C of RCRA; Notice of Proposed Rulemaking. *Federal Register*. 54 FR 15316 15354. 40 page(s).
- U.S. EPA (Environmental Protection Agency). September 1, 1989. Mining waste exclusion; final rule. *Federal Register*. 54 FR 36592 36642. 52 pages.
- U.S.EPA (Environmental Protection Agency). March, 1990. Report of the Saturated Zone Model Subcommittee. Review of the CANSAZ Flow and Transport Model for Use in EPACMS. EPA-SAB-EEC-90-009. Science Advisory Board. 34 page(s).
- U.S.EPA (Environmental Protection Agency). July, 1990. Report to Congress on Special Wastes from Mineral Processing. Summary and Findings Methods and Analyses Appendices. EPA/530-SW-90-070C. Office of Solid Waste and Emergency Response, Washington, DC, 13.1-13.31. 36 page(s).
- U.S. EPA (Environmental Protection Agency). July 31, 1990. Notice of intent to remove certain active ingredients from Reregistration List B and to cancel pesticides containing those ingredients. *Federal Register*. 55 FR 31164 31174. 12 pages(s).
- U.S. EPA (Environmental Protection Agency). January 30, 1991. National Secondary Drinking Water Regulations. *Code of Federal Regulations* 40 CFR Part 143. 3 page(s)
- U.S. EPA (Environmental Protection Agency). June 13, 1991. Special wastes from mineral processing (mining waste exclusion); final regulatory determination and final rule. *Federal Register*. 56 FR 27300 27330. 32 page(s)..
- U.S.EPA (Environmental Protection Agency). September, 1993. *Drinking Water Criteria Document for Manganese* (Final Draft). ECAO-CIN-D008. Office of Water. Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH. 187 page(s).
- U.S.EPA (Environmental Protection Agency). August, 1994. *Water Quality Standards Handbook: Second Edition* (Update No. 1). EPA-823-B-94. Water Quality Standards Branch, Office of Water, Washington, DC. 10 page(s).
- U.S.EPA (Environmental Protection Agency). January, 1995. *Proceedings: Workshop on the Bioavailability and Oral Toxicity of Manganese. August 30-31, 1994; Cincinnati, OH.* Environmental Criteria and Assessment Office and Office of Science and Technology, Cincinnati, OH. 149 page(s).

- U.S.EPA (Environmental Protection Agency). July, 1995. An SAB Report: Review of EPA's Composite Model for Leachate Migration with Transformation Products EPACMTP. Prepared by the OSWER Exposure Model Subcommittee of the Environmental Engineering Committee (Draft for Subcommittee Review). EPA-SAB-EEC-95-OXX. Science Advisory Board, Washington, DC. 29 page(s).
- U.S. EPA (Environmental Protection Agency). January 25, 1996. Land disposal restrictions—supplemental proposal to Phase IV: Clarification of Bevill exclusion for mining wastes, changes to the definition of solid waste for mineral processing wastes, treatment standards for characteristic mineral processing wastes, and associated issues. Supplemental Proposed Rule. *Federal Register*. 61 FR 2337 2375. 73 page(s).
- U.S.EPA (Environmental Protection Agency). May 1, 1996. *Integrated Risk Information System (IRIS) Summary of Manganese. CASRN 7439-96-5*. National Center for Environmental Assessment, Office of Research and Development. Website at http://www.epa.gov/ngispgm3/iris/subst/0373.htm. 37 page(s).
- U.S. EPA (Environmental Protection Agency). November 14, 1996. Proposed selenium criterion maximum concentration for the water quality guidance for the great lakes system. Proposed Rule. *Federal Register*. 61 FR 58443 58449. 13 page(s).
- U.S. EPA (Environmental Protection Agency). May 12, 1997. Land disposal restrictions Phase IV: Second supplemental proposal on treatment standards for metal wastes and mineral processing wastes, mineral processing and Bevill exclusion issues, and the use of hazardous waste as fill. Supplemental Proposed Rule. *Federal Register*. 62 FR 26042 26084. 81 page(s).
- U.S.EPA (Environmental Protection Agency). January, 1998. Fate, Transport and Transformation Test Guidelines. OPPTS 835.1220 Sediment and Soil Adsorption/Desorption Isotherm. EPA-712-C-98-048. Office of Prevention, Pesticides, and Toxic Substances. 20 page(s).
- U.S.EPA (Environmental Protection Agency). April, 1998. *Identification and Description of Mineral Processing Sectors: Technical Background Document: Final.* EPA/530/R-99-022. Office of Solid Waste and Emergency Response. 5 page(s).
- U.S. EPA (Environmental Protection Agency). May 26, 1998. Land disposal restrictions Phase IV: final rule promulgating treatment standards for metal wastes and mineral processing wastes; mineral processing secondary materials and Bevill exclusion issues; treatment standards for hazardous soils, and exclusion of recycled wood preserving wastewaters. Final Rule. *Federal Register*. 63 FR 28555 28604. 92 page(s).
- U.S. EPA (Environmental Protection Agency). December 10, 1998. National recommended water quality criteria; notice; republication. Compilation of recommended water quality criteria and notice of process for new and revised criteria. *Federal Register*. 63 FR 68354 68364. 12 page(s)..
- U.S.EPA (Environmental Protection Agency). January, 1999. *Toxicological Review of Barium and Compounds (CAS No. 7440-39-3). In Support of Summary Information on the*

- *Integrated Risk Information System (IRIS)*. National Center for Environmental Assessment, Office of Research and Development, Cincinnati, OH. 52 page(s).
- U.S.EPA (Environmental Protection Agency). April, 1999. *National Recommended Water Quality Criteria-Correction*. EPA 822-Z-99-001. Office of Water, Washington, D.C. 26 page(s).
- U.S.EPA (Environmental Protection Agency). July, 2000. National Air Toxics Program: The Integrated Urban Strategy Report To Congress. Manganese Compounds. EPA-453/R-99-007. Office of Air Quality Planning and Standards, Research Triangle Park, NC. 15 page(s).
- U.S.EPA (Environmental Protection Agency). August 28, 2000. *Risk Assessment fo the Listing Determinations for Inorganic Chemical Manufacturing Wastes: Background Document*. Office of Solid Waste, Washington, D.C. Website at http://www.epa/gov/OSWRCRA/hazwaste/id/inorchem/pr2000.htm. 15 page(s).
- U.S. EPA (Environmental Protection Agency). September 14, 2000. Hazardous waste management system; identification and listing of hazardous waste: inorganic chemical manufacturing wastes; land disposal restrictions for newly identified wastes; and CERCLA hazardous substance designation and reportable quantities. Proposed Rule. *Federal Register*. 65 FR 55684-55782. 55 page(s).
- Varner, D., S.Skipton, D.Hay, and P.Jasa. May, 1996. *Neb Guide. Drinking Water: Iron and Manganese*. G96-1280-A. University of Nebraska-Lincoln, Institute for Agriculture and Natural Resources, Lincoln, NE. Website at http://www.ianr.unl.edu/pubs/water/g1280.html 8 page(s).
- Velazquez, S.F., C.Sonich-Mullich, and J.T.Du. 1990. Risk assessment of Manganese: the essentiality of Manganese. In: *Trace Substances in Environmental Health. Proceedings of a Conference Held in Cincinnati, Ohio on May 29 June 1, 1989.*, D.H.Hemphill and C.R.Cothern (eds.), Volume 12 Supplement of Environmental Geochemistry and Health. pp. 379-386. 11 page(s).
- Velazquez,S.F., and J.T.Du. 1994. Chapter 6: Derivation of the Reference Dose for Manganese. In: *Risk Assessment of Essential Elements*, W.Mertz, C.O.Abernathy, and S.S.Olin (eds.), International Life Sciences Institute, Washington, D.C. pp. 253-266. 12 page(s).
- Vernie, L.N. 1984. Selenium in carcinogenesis. *Biochimica et Biophysica Acta*. 738(3):203-217.
- Versar, Inc. July 28, 2000. *Characterization of Data Uncertainity and Variability in IRIS Assessments Pre-Pilot vs Pilot/Post-Pilot*. U.S. Environmental Protection Agency, National Center for Environmental Assessment. Springfield, VA. 46 page(s).
- Vieregge, P., B.Heinzow, G.Korf, H.M.Teichert, P.Schleifenbaum, and H.U.Mosinger. November, 1995. Long term exposure to manganese in rural well water has no neurological effects. *The Canadian Journal of Neurological Sciences*. 22(4):286-289.

- Virtamo, J., E. Valkeila, G. Alfthan, S. Punsar, J. K. Huttunen, and M. J. Karvonen. July 15, 1987. Serum selenium and risk of cancer. A prospective follow-up of nine years. *Cancer*. 60(2):145-148.
- Vitosh,M.L., D.D.Warncke, and R.E.Lucas. July 10. 1997. *Manganese. Secondary and Micronutrients for Vegetables and Field Crops. Michigan State University Extension Soils & Soil Management Fertilizer 05209705*. Extension Bulletin E-486. Michigan State University Extension, Department of Crop and Soil Sciences. 4 page(s).
- Weiss, S.A. (Stanley A. Weiss). 1977. *Manganese The Other Uses*. Metal Bulletin Books Ltd., Letchworth, Hertfordshire, Great Britain. 9 page(s).
- Whitney, E.N., and S.R.Rolfes 1999. *Understanding Nutrition*. Eighth edition. Wadsworth Publishing Company, Belmont, CA. 15 page(s).
- WHO (World Health Organization). 1973. *Trace Elements in Human Nutrition. Report of a WHO Expert Committee*. World Health Organization Technical Report Series No. 532. Geneva, Switzerland. 6 page(s).
- WHO (World Health Organization). 1996. *Guidelines for Drinking-Water Quality. Health Criteria and Other Supporting Information, Volume 2.* Geneva, Switzerland. 19 page(s).
- Wilson, D.C., T.R.J.Tubman, H.L.Halliday, and D.McMaster. 1992. Plasma manganese levels in the very low birth weight infant are high in early life. *Biol Neonate*. 61:42-46.
- Wones, R.G., B.L. Stadler, and L.A. Frohman. 1990. Lack of effect of drinking water barium on cardiovascular risk factor. *Environmental Health Perspectives*. 85:355-359.
- K.D.Woodruff, and A.M.Thompson 1975. *Geology of the Wilmington Area, Delaware. Geologic Map Series No. 4.* Newark, Delaware. 1 page.
- Yang, G., S.Yin, R.Zhou, L.Gu, B.Yan, and Y.Liu. 1989. Studies of safe maximal daily dietary Seintake in a seleniferous area in China. Part II. Relation between Se-intake and the manifestation of clinical signs and certain biochemical alteration in blood and urine. *J.Trace Elem.Electrolytes Health Dis.* 3(3):123-130.
- Yang, G., R.Zhou, S.Yin, L.Gu, B.Yan, Y.Liu, Y.Liu, and X.Li. 1989. Studies of safe maximal daily dietary selenium intake in a seleniferous area in China. Part I. Selenium Intake and Tissue Selenium Levels of the Inhabitants. *Journal of Trace Elements in Electrolytes and Health Disease*. 3:77-87.
- Yim, C.S., and M.F.N.Mohsen. January-February, 1992. Simulation of Tidal Effects on Contaminate Transport in Porous Media. *Groundwater*. 30(1):78-86.
- Zhang, G., D.Liu, and P.He. January 10. 1995. Effects of manganese on learning abilities of school children. *Chinese Preventive Medicine Journal*. 4 page(s).