



EUGENE ROBERT WEINER, PH.D.

ENVIRONMENTAL SCIENTIST

CURRENT

Senior scientist dealing with the chemistry of pollution control, hazardous waste, water quality, chemical fingerprinting to identify contaminants and their sources, the fate and mobility of contaminants in surface water, groundwater, and soils, sampling and analysis protocols, and data validation for extensive sampling programs.

Professor Emeritus of Chemistry at the University of Denver, currently teaching environmental chemistry courses in the University College Environmental Policy and Management Program.

Frequently testify to regulatory bodies, such as the Colorado Water Quality Control Commission and USEPA Committees, on behalf of clients and as an environmental chemistry expert.

EDUCATION

Doctorate of Philosophy, Physical Chemistry
John Hopkins University, 1963

Master of Science, Physics
University of Illinois, 1957

Bachelor of Science, Mathematics
Ohio University, 1950

REPRESENTATIVE PROJECTS

Surface Water, Groundwater and Soil Contamination

Oil and Gas Industries: Environmental impacts of oil and gas drilling and production, quality of produced water, treatment and disposal of produced water, permitting for waste disposal.

Representative Clients include: British Petroleum, Gunnison Energy, ExxonMobil, Garrison, EnCana.

Petroleum Contamination: Chemical fingerprinting to identify contaminants and contaminant sources, mobility, and retention of contaminants; age-dating from chemical analyses; estimates of lifetimes and expected degradation products; behavior of petroleum products from spills and leaks; calculations of soil, water, and air concentrations following spills and leaks; risk assessment of spill hazards; remediation methods; and analytical methods.

Representative clients include: Total Petroleum, Western Mobile, Inc., MICROSEMI Corp., Newell Recycling, Avis Car Rental.

Water Supply: Quality of water supply sources, drinking water treatment, disinfection by-products.

Representative Clients include: City of Steamboat Springs, Colorado; City of Glendale, Colorado; City of Telluride, Colorado; Coors Brewing Company, Wilcox and Savage Law Firm.

Water Quality Regulations: TMDL development, NPDES permitting, assisting Indian Tribes achieve Status as State, state and industrial compliance issues.

Representative Clients include: Coors Brewing Company, Associated Ditches of Kansas, Kansas Livestock Association, British Petroleum, Gunnison Energy, Rocky Flats, Mountain Coal Company, ARCO Coal Company, Omaha Tribe of Nebraska, Vail Associates, Adams Rib Resort, Keystone Ski Area, Silver Springs Golf Course.

Agricultural Chemicals. Integrated pest management design, pesticide and fertilizer behavior in the environment, biosolids recycling.

Representative Clients include: Keystone Resort Golf Course, Silver Creek Golf Course, Applewood Golf Course, Maroon Bells Golf Course, Coors Brewing Company, Grant Ranch, Rocky Flats, GSS Properties.

Metals: Water treatment to meet standards and special requirements, environmental factors that influence mobility and toxicity, influence of wetlands, remediation methods, analytical methods, and environmental effects of snowmaking.

Representative clients include: Public Service Company of Colorado; Coors Brewing Company; Rocky Flats; Los Alamos National Laboratories; Western Mobile, Inc.; Cresson Mine; London Mine; Colorado Ski Country, USA; Adam's Rib Recreational Area; Environmental Utilities; and UMETCO Minerals Corp.

Chlorinated Organic Compounds: Identification of compounds and their sources, predicted behavior in the subsurface, and remediation. Degradation pathways for PCE, TCE, 1,1,1-TCA, and daughter products.

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Representative clients include: Western Paving, Inc.; MICROSEMI, Corp.; Black Pine Mine; General Electric; and Brown Group.

Inorganic and Organic Compounds and Water Quality: Treatments for developing potable water sources, predicting behavior of pesticides and fertilizers in soils and groundwater, land application of waste water and biosolids recycling, odor control, control of precipitates, comparing water sources by chemical fingerprinting and age-dating, corrosion in pumps and supply systems, and radioisotopes.

Representative clients include: Mountain Coal Company, Havasupai Indian Tribe, City of Telluride, City of Steamboat Springs, Coors Brewing Company, Glenwood Hot Springs Swimming Pool, Broomfield Swimming Pool, Glendale Water Department, Fort St. Vrain Nuclear Power Plant, Public Service Company, John Morrell & Company, and Summit County Sanitation District.

Microbiological Contaminants: Evaluation and treatment of water quality problems caused by microbial contamination (odor, taste, color, and public health).

Representative clients include: Glenwood Hot Springs Swimming Pool, Broomfield Swimming Pool, City of Glendale, Maroon Creek Golf Course, Western Sugar Corp., Ball Corp., Boulder County Open Space, and private well owners.

Data Analysis and Interpretation of Water and Soils Chemistry: Develop sampling and analysis protocols and data validation for clients that require extensive sampling programs. Audit and peer review existing sampling and analysis programs for deficiencies and recommend corrective actions. Produce site-specific manuals and guides for Quality Assurance/Quality Control (QA/QC) procedures. Provide training to client's personnel in sampling and analysis practices and data validation that meet state and federal QA/QC requirements.

Representative clients include: Rocky Flats, Fort St. Vrain Nuclear Power Plant, Los Alamos National Laboratories, Public Service Company, John Morrell & Company, Colorado Ski Country USA, Adams Rib, and City of Lincoln, Nebraska.

Radioisotopes: Geochemistry and environmental transport processes of plutonium, americium, and uranium. Radioisotope concentrating effects from reverse osmosis treatment of geothermal waters. Environmental mobility of low-level radioisotope wastes and effectiveness of containment practices. Qualitative risk assessments of exposure potential for different ecological communities.

Representative clients include: Rocky Flats, Fort St. Vrain Nuclear Power Plant, Los Alamos National Laboratories, and Environmental Utilities.

OTHER EXPERIENCE

Professor of Chemistry (Environmental and Physical Chemistry) at the University of Denver from 1964 to 1994.

Commissioner, Colorado Water Quality Control Commission, from 1975 to 1981. Chairman of the Standards and Classification Committee, 1977-1978, for developing the regulations for classifying state waters and assigning appropriate numerical standards.

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Instructor of two day seminars for the American Society of Civil Engineers in the chemistry and behavior of environmental contaminants, teaching throughout the United States, 1995 to 1998.

NATO research grant for studies of the retention and chemical fate of polyaromatic hydrocarbons in soils, 1977.

Consultant to U.S. Geological Survey, Water Quality Division, 1966 to 1985.

PUBLICATIONS

Actinide Migration Evaluation Pathway Analysis Report, Technical Appendix, Section TA-3, April 2002, Kaiser-Hill Company, Rocky Flats Environmental Technology Site, Classification Exemption #CEX-105-01 (2002).

Quantification of Actinide Migration Pathways at Rocky Flats, Colorado, Ian B. Paton, Christine S. Dayton, David M. Jubenville, Eugene R. Weiner, in "AWRA Annual Water Resources Conference Proceedings (Abstracts), November 2001", p. 21, ed. Michael E. Campana, American Water Resources Association, Middleburg, Virginia, TPS-01-3, 236 pp., (2001).

Weiner, E.R. 2000. Applications of Environmental Chemistry: A Practical Guide for Environmental Professionals. Boca Raton, FL: Lewis Publishers.

Weiner, E.R., M. Potter, and F. Dolan. 1999. Fluorescence Spectroscopy for Environmental Evaluations. Missouri Department of Natural Resources, Division of Environmental Quality, Solid Waste Management Program, Research Report, www.dnr.state.mo.us/deq/swmp/Fgpha2.htm.

Weiner, E.R. and M.C. Goldberg. 1997. Fluorescence Spectroscopy in Environmental and Hydrological Sciences. U.S. Geological Survey Internal Report.

Weiner, E.R. and M.C. Goldberg. 1996. Pollution in the South Platte River From Chatfield Dam Through Denver Measured by Fluorescence Spectroscopy. U.S. Geological Survey Internal Report.

Changing Uses of the Lower South Platte River Riparian Zone, F.R. McGregor, E.R. Weiner, K.R. Wright, 6th Annual South Platte Basin Forum Proceedings, October 25-26, 1995.

Fluorescence Measurements of the Volume, Shape, and Fluorophore Composition of Fulvic Acid from the Suwannee River, M.C. Goldberg and E.R. Weiner, in "Humic Substances in the Suwannee River, Georgia: Interactions, Properties, and Proposed Structures", Ed. R.C. Averett, J.A. Leenheer, D.M. McKnight, and K.A. Thorn, USGS Water Supply Paper, W 2373, p. 99-113 (1994).

Experimentation and Analysis in the Chemistry Laboratory, 1st Ed., Daniel Reger, Eugene R. Weiner, and William Gilkerson, Saunders College Publishing, Harcourt Brace & Company, Orlando, Florida, 374 pages, 1993.

Aquatic Photolysis: Photolytic Redox Reactions between Goethite and Adsorbed Organic Acids in Aqueous Solutions, M.C. Goldberg, D.M. Cunningham, and E.R. Weiner, J. Photochemistry and Photobiology, Section A, Vol. 73, No. 2, pp. 105-120 (1993).

Weiner, E.R. 1992. Metals Remediation in Detention Ponds at Rocky Flats Plant. Proceedings, 110th Annual Meeting, American Chemical Society, Denver, Colorado.

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- Weiner, E.R. and M.D. Goldberg. 1992. Using Raman Microprobe Spectroscopy to Detect Chemical Changes Accompanying the Degradation of Cellulose Reverse Osmosis Membranes. U.S. Geological Survey Internal Report.
- The Aqueous Photolysis of α -Pinene in Solution with Humic Acid, M. C. Goldberg, K. M. Cunningham, G. R. Aiken, and E. R. Weiner, *Journal of Contaminant Hydrology*, **9**, 79-89 (1992).
- Weiner, E.R. and M.C. Goldberg. 1989. "The Science of Luminescence," Chapter 1 in *Luminescence Applications in Biological, Chemical, Environmental, and Hydrological Science*. ACS Symposium Series No. 383, American Chemical Society, Washington, D.C.
- Mechanisms for Aqueous Photolysis of Adsorbed Benzoate, Oxalate, and Succinate on Iron Oxyhydroxide (Goethite) Surfaces, K.M. Cunningham, M.C. Goldberg, and E.R. Weiner, *Env. Sci. Technol.*, **22**, 1090-1097 (1988).
- Weiner, E.R., K.M. Cunningham and M.C. Goldberg. 1987. "An Examination of Iron Oxyhydroxide Photochemistry as a Possible Source of Hydroxyl Radical in Natural Waters," in *Chemical Quality of Water and the Hydrogeologic Cycle*. McKnight, Lewis Publishers.
- Suspended Sediment Sensor, M.C. Goldberg, K.M. Cunningham, and E.R. Weiner, U. S. Patent Number: 4,696,571, Sept. 29 1987.
- The Use of Isosbestic Points in the Fluorescence Excitation Spectrum of Humic Acid to Calculate the Dissociation Constants, M.C. Goldberg, K.M. Cunningham, and E.R. Weiner, *Canadian J. Soil Science*, **67**(8), 715-717 (1987).
- Weiner, E.R. and M.C. Goldberg. 1986. Intensity Matching Technique for Correction of Phase Error in Photomultiplier Detectors for Phase-modulation Fluorescence Lifetime Measurements. *American Laboratory*, **18**(11), 138-139.
- Photolysis of Ethylene Glycol Adsorbed onto Goethite Surfaces in Aqueous Suspension, K.M. Cunningham, M.C. Goldberg, and E.R. Weiner, *Photochemistry and Photobiology*, **41**, 409-416 (1985).
- Aquatic Photochemistry: Selected Topics from Current Research, E.R. Weiner and M.C. Goldberg, *Toxicological and Environmental Chemistry*, **9**, 327-339 (1985).
- Phosphate Bonding to Goethite and Pyrolusite Surfaces, E.R. Weiner, M.C. Goldberg, and P.M. Boymel, *Toxicological and Environmental Chemistry*, **8**, 213-219 (1984).
- Adsorption of Goethite onto Quartz and Kaolinite, M.C. Goldberg, E.R. Weiner, and P.M. Boymel, *J. Chem. Soc., Faraday Transactions I*, **80**, 1491-1498 (1984).
- A Quasiclassical Trajectory Analysis of the Ionization-Dissociation Behavior of the van der Waals Molecule ArH₂*, A. Hashim, J.S. Hutchinson, and E.R. Weiner, *J. Chem. Phys.*, **79**, 736, 1983.
- Weiner, E.R. and M.C. Goldberg. 1981. Optimizing the Selectivity of Standard Spectrophotofluorometers with Computer Control. *American Laboratory*, **14**(9), 91.
- Weiner, E.R. 1978. Equivalence of Simultaneous Scanning and Three-dimensional Plotting of Fluorescence Spectra. *Anal. Chem.*, **50**, 1583.

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- Electron Beam Fluorescence Spectrometry of Internal State Populations in Nozzle Beams of Nitrogen and Nitrogen-Rare Gas Mixtures*, M. Faubel and E.R. Weiner, *J. Chem. Phys.*, **75**, 641, 1981.
- Rotational State Populations in N₂ Nozzle Beams Near the Beam Condensation Limit*, M. Faubel and E.R. Weiner, in "Rarefied Gas Dynamics", Ed. Sam Fisher, Vol. 74 of Progress in Astronautics and Aeronautics, Amer. Inst. of Astronautics and Aeronautics, New York (1981).
- Fundamentals of Chemistry; Laboratory Studies* (Laboratory manual), 4th Ed., E.R. Weiner, F. Brescia, J. Arents, J. Meislich, and A. Turk, Academic Press, New York, (1980).
- Murnaghan Parameter B' Estimates From Morse Potential for Zinc-Blende Structure Group IV-A Covalent Crystals*, E.R. Weiner and J.R. Riter, Jr., *J. Physics and Chem. Solids*, **39**, 1139 (1978).
- Equivalence of Simultaneous Scanning and Three-dimensional Plotting of Fluorescence Spectra*, *Anal. Chem.*, **50**, 1583 (1978).
- Setting New Water Quality Standards: A Colorado Case History*, E.R. Weiner, *Amer. Chem. Soc. Proceedings*, 4th Joint Conf. on Sensing of Environmental Pollutants, p. 108 (1978).
- Extraction and Concentration of Phenolic Compounds from Water and Sediment, M.C. Goldberg and E.R. Weiner, *Anal. Chim. Acta*, **115**, 373-378 (1978).
- Setting New Water Quality Standards: A Colorado Case History*, E.R. Weiner, *Amer. Chem. Soc. Proceedings*, 4th Joint Conf. on Sensing of Environmental Pollutants, p. 108 (1978).
- Feasibility and Technology for making Remote Measurements of Solutes in Water, M.C. Goldberg and E.R. Weiner, *J. Research U.S. Geological Survey*, **5**, 561-563 (1977).
- Investigation of Detection Limits for Solutes in Water, Measured by Laser Raman Spectrometry, K.M. Cunningham, M.C. Goldberg, and E.R. Weiner, *Anal. Chem.*, **49**, 70-75 (1977).
- Kinetic Energies of Fragment Ions from some Hydrocarbons and Organic Halides in a Modified Mass Spectrometer*, A.I. Ossinger and E.R. Weiner, *J. Chem. Phys.*, **65**, 2892 (1976).
- Modification of a Mass Spectrometer for the Measurement of the Translational Energy of Ionic Fragments*, E.R. Weiner and A.I. Ossinger, *Rev. of Sci. Instr.*, **47**, 155 (1976).
- Remote Sensing of Water Quality via Laser Induced Raman Scattering, K.M. Cunningham, M.C. Goldberg, and E.R. Weiner, *Trans. of 11th Annual Meeting of Amer. Water Resources Assoc.*, Baton Rouge, Louisiana (1975).
- Remote Sensing of the Chemical Composition of Water, Chapt. 19 in *Manual of Remote Sensing*, Vol. II, 1st ed., Amer. Soc. of Photogrammetry, Falls Church, Virginia (1975).
- Fundamentals of Chemistry; Laboratory Studies* (Laboratory manual), 3rd ed., E.R. Weiner, F. Brescia, J. Arents, J. Meislich, and A. Turk, Academic Press, New York, (1975).
- Applications of Spectroscopy to Remote Determinations of Water Quality, E.R. Weiner and M.C. Goldberg, *Trans. of 4th Annual Earth Resources Review*, **81**, Manned Spacecraft Center, NASA, Clearlake, Texas, pp. 1-14 (1972).
- A Brief Review of the Use of Airborne Remote Sensing for Measuring Water Quality, M.C. Goldberg and E.R. Weiner, *U. S. Geological Survey Report* (1969).

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- Surface Catalytic Effects in Nitrous Oxide Radiation Dosimetry, F. W. Lampe, Larry Kevan, and E. R. Weiner, *J. Phys. Chem.*, **71**, 1528 (1967).
- The Formation of Ozone in the Radiolysis of Gaseous Oxygen, F. W. Lampe, E. R. Weiner, and W. H. Johnston, *Internat. J. Appl. Radiation and Isotopes*, **15**, 363 (1964).
- Special Report on Ozone Formation in the Radiolysis of Gaseous Oxygen, F. W. Lampe, W. S. Koski, and E. R. Weiner, 2901-0-1, UC-23, Isotopes-Industrial Technology, T.I.D.-4500, 21st ed. (1963).
- Studies of Radiation Mechanisms as Applied to Potential Manufacturing Processes: Hydrazine from Ammonia, Nitrogen Fixation, and Ozone from Oxygen, F. W. Lampe, W. S. Koski, W. H. Johnston, and E. R. Weiner, in, "Industrial Uses of Large Radiation Sources", Vol. 1, International Atomic Energy Agency, Vienna (1963).
- Gas-Phase Reactions Between Carbon Tetrachloride and Mass-Analyzed Ions of Nitrogen Between 3 and 200 eV*, E.R. Weiner, G.R. Hertel, and W.S. Koski, *J. Amer. Chem. Soc.*, **86**, 788 (1963).
- Hydrazine Formation in the Gas-Phase Radiolysis of Ammonia*, F. W. Lampe, E.R. Weiner, W.S. Koski, and W.H. Johnston, *Internat. J. Appl. Radiation and Isotopes*, **14**, 231 (1963).
- Ph.D. Dissertation: *Some Ion-Molecule and Charge Transfer Reactions Studied in a Tandem Mass Spectrometer*, Eugene R. Weiner, The Johns Hopkins University, Baltimore Maryland (1963).
- Cross-sections for Some Gas-phase Single-Charge-Transfer Reactions of N_2^{++} and Ar^{++}* , E.R. Weiner, G.R. Hertel, and W.S. Koski, *J. Chem. Phys.*, **39**, 3538 (1962).
- Process Increases Yield of Hydrazine*, F.W. Lampe, W.S. Koski, E.R. Weiner, and W.H. Johnston, *Research News Report, Chem. and Eng. News*, **40**, 40 (Dec. 3, 1962).

ENVIRONMENTAL PRESENTATIONS:

- Quantification of Actinide Migration Pathways at Rocky Flats, Colorado*, Ian B. Paton, Christine S. Dayton, David M. Jubenville, Eugene R. Weiner, presented at: AWRA Annual Water Resources Conference, American Water Resources Association, Middleburg, Virginia, November 2001.
- Case Study of Regulatory Protection of Groundwater Quality and Endangered Species*, 6th Annual South Platte Basin Forum on "Endangered Species Management: Planning Our Future", October 25-26, 1995
- Clean Water Regulations*, Talk to Water Treatment Operators, Glenwood Springs, Colorado, April 28, 1993
- Metals Remediation in Detention Ponds at Rocky Flats Plant*, 110th Annual Meeting, American Chemical Society, Denver, June 1992.
- Analytical Uncertainties; Zero Isn't Nothing*, Annual Environmental Pendulum Meeting, Colorado Association for Commerce and Industry, April 25, 1991.
- Influence of Förster Energy Transfer on Fluorescent Lifetimes*, 27th Annual Rocky Mountain Conference, Denver, July 1985.
- The Role of Triplet Energy States in Environmental Photochemistry*, 26th Annual Rocky Mountain Conference, Denver, August 1984.

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- Review of Light Scattering Technology for Particle Size and Mass Measurements*, (Poster Session), 25th Annual Rocky Mountain Conference, Denver, August 1983.
- The Use of FTIR to Characterize Sediment Coatings of Phosphate on the Substrates Goethite and Pyrolusite*, 24th Annual Rocky Mountain Conference, Denver, August 1982.
- Sorption of Phosphate on Crystalline Goethite and Goethite Coatings on Silica*, 22nd Annual Rocky Mountain Conference, Denver, August 1980.
- Setting New Water Quality Standards: A Colorado Case History*, 4th Joint Conf. on Sensing of Environmental Pollutants, Dallas, 1978.
- Detection of Suspended Sediments in Water via Laser Light Scattering*, 19th Annual Rocky Mountain Conference on Analytical Chemistry and Applied Spectroscopy, Denver, August 1977.
- Examination of Aqueous Suspensions by Fraunhofer Diffraction Spectroscopy*, 18th Annual Rocky Mountain Conference on Analytical Chemistry and Applied Spectroscopy, Denver, August 1976.
- Remote Sensing of Water Quality via Laser Induced Raman Scattering*, 11th Annual Meeting of American Water Resources Association, Baton Rouge, 1975.
- Remote Sensing of Water Quality*, Kansas State Teachers College, Emporia, Kansas, 1975.
- Water Quality Analysis by Raman Spectrometry*, Northern State College, South Dakota, 1975.
- Energy: the Probable Future*, Ft. Lewis College, Durango, 1975.
- Laser-Raman Spectroscopy of Dissolved Solutes in Water; Remote Sensing of Water Quality*, Northern Arizona University, Flagstaff, 1975.
- Laser-Raman Spectroscopy of Dissolved Solutes in Water; Remote Sensing of Water Quality*, Ogden State College, Ogden, 1975.
- Laser-Raman Spectroscopy in Water*, 17th Annual Rocky Mountain Conference on Analytical Chemistry and Applied Spectroscopy, Denver, August, 1975.
- The Raman Effect used to Measure Water Quality*, Earth Environment and Resources Conference, Philadelphia, September 10-12, 1974.
- Opening and closing summaries, Chairman, Symposium on Environmental Science, 168th National Meeting, American Chemical Society, Los Angeles, 1974.
- Remote Sensing of Water Quality*, Colorado College, Colorado Springs, 1974.
- Energy: Future Prospects*, Colorado College, Colorado Springs, 1974.
- Ozone Formation in the Radiolysis of Oxygen*, Metropolitan State College, Denver, Colorado, 1974.
- Energy: Future Prospects*, Metropolitan State College, Denver, 1974.
- Ion-molecule Reactions in Ozone Formation by the Radiolysis of Oxygen*, University of Colorado, Boulder, 1974.
- The Release of Natural Gas by Rock Fracturing Using Nuclear Explosives*, University of Colorado Environmental Engineering Lecture Series, Boulder, 1973.

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Air Pollution Chemistry, American Telephone & Telegraph Meeting on the Environment, Denver, 1973.

Technical Innovation for Environmental Quality, Bureau of Reclamation, Denver, 1973.

Remote Sensing of Water Quality, Regis College, Denver, 1973.

Remote Sensing of Water Pollutants, 4th Annual Earth Resources Program Review, NASA Manned Spacecraft Center, Clearlake, Texas, 1972.

Ozone Formation in the Radiolysis of Oxygen, Colorado College, Colorado Springs, 1972.

Global Aspects of Air Pollution, Seminar on International Aspects of Environmental Problems, Vail, Colorado, 1972.

Air Pollution, Martin Marietta Laboratories, Denver, 1972.

Remote Sensing of Water Quality, Kansas State University, Manhattan, Kansas, 1972.

Ozone Formation in the Radiolysis of Oxygen, Colorado College, Colorado Springs, 1972.

Opening and closing summaries, Chairman, Symposium on Environmental and Technical Chemistry, 164th National Meeting, American Chemical Society, New York, 1972.

Properties of Water, Colorado State University, Fort Collins, CO, 1971.

Remote Sensing of Water Pollutants, Symposium on Environmental Quality, 162nd National Meeting, American Chemical Society, Washington, D.C., September, 1971.

Applications of Laser-Raman Spectrometry to the Remote Sensing of Water Quality, 10th National Meeting, Society of Applied Spectroscopy, St. Louis, Missouri, 1971.

Catalytic Properties of Silica Surfaces, Southwest Regional Meeting, American Chemical Society, Austin, Texas, 1968.

Surface Catalytic Effects in Nitrous Oxide Radiation Dosimetry, F. W. Lampe, Larry Kevan, E. R. Weiner, and W. H. Johnston, Radiation Dosimetry Workshop sponsored by U.S. Atomic Energy Commission, Brookhaven National Laboratory, New York, April 1964.

The Radiolysis of Nitrous Oxide as a Dosimeter, F. W. Lampe, Larry Kevan, E. R. Weiner, and W. H. Johnston, Radiation Dosimetry Workshop sponsored by U.S. Atomic Energy Commission, Brookhaven National Laboratory, New York, April 1964.

Frequent lecturer to academic, legal, engineering, and environmental audiences on chemistry of air, water and soil pollution, mobility of contaminants through soil and water, radioactivity, and ultimate fates of environmental pollutants.

ENVIRONMENTAL PUBLIC SERVICE:

Chairman, Colorado Open Space Council, (Consortium of about 35 Colorado environmental organizations, including Colorado chapters of Sierra Club, Wilderness Society, Trout Unlimited, and Audubon Society), 1967-1975.

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Colorado Mountain Club Special Award for Conservation, 1968.

Steering Committee and Panel Leader, Conference on College, Community, and Conservation, sponsored by the Conservation Foundation and University of Denver, 1968.

Conference Chairman, 4th Annual Open Space Conference, Estes Park, Colorado, 1967.

Invited Lecturer on Environmental Problems, University of Denver Adult Education Program, 1970.

Chairman, Recreational Health Subcommittee of the Task Force on Environmental Health, Colorado Health Planning Council, 1968-1970. Report completed 1970.

Member, Air Pollution Consortium of Colorado Universities, 1970-1972.

Chairman, Water Pollution Subcommittee of the Task Force on Environmental Health, Colorado Health Planning Council, 1969-1971. Report completed 1971.

Member, Experiment in Ecology. A committee of environmentalists and officials of American Metals Climax Corp. to mitigate the environmental hazards of mining and facilitate mined land reclamation. 1968-1970.

Member, Planning Committee of the Conference on Optimum Population and the Environment, Chicago, Illinois, 1970.

Member, Advisory Committee on Automotive Emissions Control, Colorado Air Pollution Commission, 1972.

Member, Advisory Committee on Mass Transportation, Colorado State Health Department, 1972-1973.

Member, Environmental Advisory Committee, to Western Systems Coordinating Council (the policy planning entity for the western states public utilities), 1972-1973.

Board Member, Rocky Mountain Center on the Environment, 1974-1978.

Commissioner, Colorado Water Quality Control Commission, 2 terms: 1975-1981.

Chairman, Colorado Water Quality Control Commission Special Committee for developing water use classifications and quality standards for Colorado, 1975-1978.

Member, Water Study Advisory Committee, Colorado Department of Natural Resources, 1976-1978.

Chairman, American Chemical Society, Colorado Section, 1986.

Member, Colorado Council for Environmental Management, Waste Minimization Subcommittee, 1991-1993