

Section B
Civic Auditorium, Rooms 422-24 26 (4th Floor)
Symposium on Energy and Environmental Chemistry: Airborne Precipitation Contaminants and Effects: Acid Rain Joint with Committee on Environmental Improvement
G E Glass, Presiding
9:00—Introductory Remarks
9:10—135 Kinetic Models of Acid Precipitation in Southern California H M Lippert and J J Morgan
9:40—128 Effects on the Environment of Fossil Fuel Usage by Electric Utilities E Kleber, A Dettl, A Gakner
10:00—137 Comparative Transport of Iron, Lead, Manganese, and Zinc in Three Acid-rainfall Lake Watersheds Receiving Acid Precipitation D E Trautman, V C Kennedy
10:30—Intermission
10:40—129 Winter Contributions of Airborne Pollutants to Remote Regions of Northern Minnesota L J Heine, G E Glass, L E Anderson, F L Bortcher, J A Red, J A Rogals, C A Sandberg
11:00—126 Atmospheric Deposition of Nitrogen and Sulfur in Northern California J G McColl
11:30—120 Distribution of Mercury and 14 Other Elements in Remote Watersheds in the Adirondack Mountains New York B W Fuke, M M Reddy

Section C
Civic Auditorium, Room 410 (4th Floor)
Symposium on Health and Ecological Effects of Chlorinated Hydrocarbons: Neurotoxicity, Carcinogenicity, and Mutagenicity
G M Williams, Presiding
9:00—Introductory Remarks
9:05—121 Effects of Chlorinated Hydrocarbon Insecticides on Calcium Regulatory Mechanisms in Nervous System P Molenaar
9:30—122 Neurological Effects of Chlorinated Hydrocarbons M L Cohen, M Van Vleet
10:00—123 Mode of Action of Chlorinated Hydrocarbon Pesticides on the Nervous System T. Marashahi
10:10—Intermission
10:40—124 Chloroform and its Relationship to Leukemia in Fish J J Mazza, E R Brown, R D Grossberg, L Kamin, D P Becker
11:10—126 A Role for Water Chlorination in Marine Mammal Production A F Payne, I Martine, A Kohnmuller, J Pfaff
11:30—125 Epigenetic Versus Genotoxic Effects of Chlorinated Hydrocarbons G M Williams

Section D
Symposium on Measurement and Control of Chemical Hazards in the Workplace Environment—New Technologies Joint with Division of Analytical Chemistry and Chemical Health and Safety (see page 63)

Section E
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 64)

THURSDAY AFTERNOON

Section A
Civic Auditorium, Room 408 (4th Floor)
Symposium on Advances in the Identification and Analysis of Organic Pollutants in Water
A Wong, Presiding

1:30—Introductory Remarks
1:40—137 Halogenated Organic Compounds in Spent Bleach Liquors: Determination, Multiplicity Testing and Bioaccumulation A Bjorseth, G E Carberg, M Ops, M Moller
2:00—138 A Novel GC Method for the Analysis of Chlorinated Phenolics in Pulp Mill Effluents R H Voss, J T Wearing, A Wong
2:30—139 Analysis of Chlorophenolics from Bleached Pulp Mills M Salnikow-Salmon, M L Benoit, J Pore T Jankovic R Haskins
2:55—140 Chlorinated Organics of Low and High Relative Molecular Mass in Bleachery Effluents of Pulp Mills K Lindstrom, J Nordin, F Osterberg

3:20—Intermission
3:30—141 Chlorinated Phenols in Douglas Fir Wood Extractives L C Wegner, W W Mahood
3:50—142 Halogenated Organic Pollutants in Water and Suspended Matter From Pulp Mill Effluents E A Graculus, D C Kern, K H Abel, B L Thomas, R M Bost
4:20—Prepacked Capillary Column Analysis of Organic Concentrates from Drinking Water and Advanced Waste Treatment Water D C K Lin, S Y Lucas, S G Mason

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9:00—Introductory Remarks
9:10—135 Average Storm Duration and Seasonal Precipitation Rates for the Northwest Sector of the United States J M. Therp, S C Scott
9:40—143 An Integrated Approach to Acid Rainfall Assessments J L Schaefer, G R Carmichael, F A Van Schoepen
10:05—144 On the Influence of Gas Solubility of Trace Gases on Precipitation Acidity M Reddy, Y Aderuyi, S R Carmichael
10:30—Intermission
10:40—147 Plume Washout of Sulfate and Nitrate Around a Major Coal-Fired Power Plant M C A Chen, R E Seyler, S E Lindberg
11:05—148 Preliminary Results of an Eight Layer Regional Assessment Model Applied to the Problem of Acid Rain W E Davis
11:30—149 Precipitation Analysis in New Mexico C J Pepp, C M Jensen, D K Brandford, L A Brandford

Section C
Civic Auditorium, Room 410 (4th Floor)
Symposium on Health and Ecological Effects of Chlorinated Hydrocarbons: Neurotoxicity of Halogenated Hydrocarbons
S D Aust, Presiding
9:00—Introductory Remarks
9:05—121 PCBs as Microsomal Enzyme Inducers: Structure-Activity Relationships S A. Parkison, L Robertson, R Cockburn, L Soto
9:30—121 Toxicology of Polybrominated Biphenyls S O Aust, G A Dennen, S D Singh, P J Fraser, R K Ringer, D Ruff
10:00—122 Biochemical and Morphological Alteration of Rat Liver by Photocyclization M A G Khan, L T Martin, R L Willey M. Faraz
10:30—123 Oncogenic, Cytotoxic, and Enzymatic Effects of PCBs on C3H10T1/2 Cells G W. Newstead, G Reddy, H P Chis
10:40—Intermission
11:00—124 Polybrominated Biphenyls: Polychlorinated Naphthalenes and Polychlorinated Terphenyls as Microsomal Enzyme Inducers G. Soto, A. Parkison, L. Robertson, R. Cockburn
11:30—125 Mammalian Toxicology of 2,3',4,4'-Tetrachlorodibenzene and 2,3',4,4'-Tetrachlorodibenzene Implications in Environmental and Occupational Health M T S. Heis
11:55—126 Mechanism of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Induced Depression in the Baroid Transport System of Rat Liver R E. Peterson

Section D
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 65)

Section E
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Section F
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Section G
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 68)

Section H
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 69)

Section I
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Section J
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 71)

Section K
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Section L
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 73)

Section M
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 74)

Section N
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Section O
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6:55—153 Concentration and Speciation of Dissolved Sugars in River Water M Sweet, E M. Purdie
7:15—150 Certain Amino Acids as Probable Precursors of Dihaloacetonitriles in Chlorinated Natural Waters M L Trehy, T L Bleber
7:40—150 Detection, Identification and Quantitative Analysis of Dihaloacetonitriles in Chlorinated Natural Waters M L Trehy, T L Bleber
7:50—151 Determination of Linear Alcohol Ethoxylates in Waste and Surface Water V T Wee
8:00—Intermission
8:10—152 Detection and Quantitation of Electrophiles in Environmental Samples A M Chen, R E Carlson
8:30—153 Para-para-Para Analysis of Purgeable Base/Nitrate and Acid Extractable Organic Water Contaminants on a Single Fused Silica Capillary Column by Electron Impact GC/MS A R Trussell, F Liu, J G Moncor
8:50—154 Drinking Water Trace Organic Isolation by Continuous Liquid-Liquid Extraction and Analysis on On-Column Capillary GC T L Yoke, I H Butler
9:00—155 Determination of Phenolic Water Pollutants by Glass Capillary GC W Elger, C Schellner

Section B
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9:10—156 Levels of Iron and Manganese Producing Maximum Growth of the Giant Kelp *Macrocystis Pyrifera* in Synthetic Seawater L M. Anderson, W J North, J J Morgan
9:30—157 Distribution of Manganese in Roadside Soil R S Huff, D D Soltes, N C Haskins, K N Carter
9:40—158 Kinetics of Manganese Removal in Aqueous Suspensions of γ -FeOOH: A Case for Surface Oxidation W Sung, J J Morgan
9:50—159 Stability of Beta-Manganese and Manganese Oxide Deposition from Spring Water J B. Rem, C E Robertson, R S Fournier
10:00—159 Adsorption of NH₃ onto a Silica Surface from Aqueous Solution J R Young, J J Morgan
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11:30—174 Identification of Compounds Polybrominated Biphenyls) in Firemaster PC-1 Post Process Hypercarboxylic Activity L L. Woodhams, R H Hill, J D L Orl, D G Peterson, R D Kimbrough, D F Groce, J A Little

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Section G
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Section H
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Section J
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Section K
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Section L
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Section M
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Section N
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11:30—174 Identification of Compounds Polybrominated Biphenyls) in Firemaster PC-1 Post Process Hypercarboxylic Activity L L. Woodhams, R H Hill, J D L Orl, D G Peterson, R D Kimbrough, D F Groce, J A Little

Section P
Civic Auditorium, Rooms 422-24 26 (4th Floor)
General
R Jolley, Presiding
9:00—Introductory Remarks
9:10—156 Levels of Iron and Manganese Producing Maximum Growth of the Giant Kelp *Macrocystis Pyrifera* in Synthetic Seawater L M. Anderson, W J North, J J Morgan
9:30—157 Distribution of Manganese in Roadside Soil R S Huff, D D Soltes, N C Haskins, K N Carter
9:40—158 Kinetics of Manganese Removal in Aqueous Suspensions of γ -FeOOH: A Case for Surface Oxidation W Sung, J J Morgan
9:50—159 Stability of Beta-Manganese and Manganese Oxide Deposition from Spring Water J B. Rem, C E Robertson, R S Fournier
10:00—159 Adsorption of NH₃ onto a Silica Surface from Aqueous Solution J R Young, J J Morgan
10:10—Intermission
10:20—171 Nitrosation and Cyanohydrin Decomposition Artifacts in Distillation Tests for Cyanide J P Casey
10:40—172 Evaluation of Gas Saturation Methods to Measure Vapor Pressure of Environmental Temperatures A R. Curtis, H M. Jaber, J H. Smith
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Section Q
Civic Auditorium, Rooms 422-24 26 (4th Floor)
General
R Jolley, Presiding
9:00—Introductory Remarks
9:10—156 Levels of Iron and Manganese Producing Maximum Growth of the Giant Kelp *Macrocystis Pyrifera* in Synthetic Seawater L M. Anderson, W J North, J J Morgan
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9:55—177 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Induced Cardiovascular Malformation in the Chick Embryo M O Chung, R E Peterson, E F Gilbert
10:20—Intermission
10:30—178 Fate of Hexachlorocyclopentadiene in the Environment Y H Atallah, D M Whitacre, R G Buz
11:00—179 Non-Point Source Pollution from PCBs: Bioavailability and Inactivation with Activated Carbon J B Weber, M J Bock, P J Bock, D Pal, M R Overcash
11:30—180 Sediment Sorption and Toxicity of Organochlorine Pesticides to Marine Invertebrates S Ray, D W McLeese, V Zinko

Section D
Symposium on Chemical Composition of Atmospheric Aerosols: Source/Air Quality Relationships Joint with Division of Nuclear Chemistry and Technology (see page 69)

FRIDAY AFTERNOON

San Francisco Hilton Ballroom 4 (Ballroom Level)

General

K W Lee, Presiding

1:30—Introductory Remarks
1:35—191 Detection and Characterization of Complexes of Methylmercury (II) with Duplex DNA and Synthetic Copolymers by Optical Detection of Magnetic Resonance R R Anderson, A H Haki, C M On
1:55—192 Determination of Iron-Organic Conditional Stability Constants C J Miller, P L Brzonka
2:10—193 Voltammetric Determination of Free and/or Combined Available Chlorine in Water Containing Excess Hydrogen Peroxide M C Ma
2:30—194 Elemental Composition of Highly Resolved Coal Fly Ash Fractions from Inertial Low Pressure Impaction Effects of Surface Deposition and Aerosol Coagulation A H. Sternberg, J. Ostby
2:45—195 Direct C-13 NMR Evidence for Carbohydrate Moieties in Folic Acid M A. Mills, C. Bessink, R L. Wertheim
2:55—Intermission