



## *ORD Publications Announcement*

### May 1981

The Environmental Protection Agency's Office of Research and Development announces the availability of printed publications on a wide range of environmental topics. As a part of EPA's efforts to make available better information for environmental decision making, we are offering the following types of publications at no charge.

**Project Summaries** are short synopses of key findings of project reports. These reports present the results of recently completed research, development and engineering work. The summaries convey the essence of a project in terms comprehensible to the technical community at large. The complete reports are available only from the National Technical Information Service.

**Research Summaries** are issue- or problem-oriented summaries of EPA's research activities in a particular area. They include distilled descriptions of all of our major research projects which address the subject of the booklet.

**Decision Series** documents are carefully crafted to address major environmental issues and concerns. They present a concise and clear statement of the scientific facts as known to major experts in the research community. These documents are aimed at decision makers involved in the formulation of environmental research policies.

**Program Summaries and Plans** go into significantly more programmatic detail than the above-mentioned reports and are intended to convey both the substance and the organizational

structure of the research program. They are designed to satisfy those whose interest in our program requires a greater level of detail.

**Other Publications** of EPA's research program include a *Program Guide* (describing our major research areas and the extramural resources associated with each), the *Research Highlights* (describing our major accomplishments of the preceding year), and the *Research Outlook* (EPA's five-year research strategy).

The *ORD Publications Announcement* is published monthly to provide interested parties with access to the broad range of currently available documents produced by the Office of Research and Development. It will be mailed monthly upon request to individuals who may wish to order this material. Orders are filled until the supply of a particular report is exhausted.

The following pages list titles of publications that are available in each category; Project Summaries are subdivided by subject area. Publications announced for the first time are displayed in bold type. To order any publication, circle the corresponding order number on the order form at the back of this *Announcement* and return the entire back page, with your mailing label attached, to:

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# Announcement for Publication Material

## Project Summaries

### Environmental Health Effects Research

- 10001 Pesticide Effects on Prenatal Cardiovascular Physiology (Mirex-Exposed Rat Fetuses and Newborns) (EPA-600/S1-80-032)
- 10002 Study of Pathogenic Free-Living Amebas in Fresh-Water Lakes in Virginia (EPA-600/S1-80-037)
- 10003 The Effect of Ozonation of Organics in Wastewater (EPA-600/S1-81-005)
- 10004 Chromosome Aberrations in Peripheral Lymphocytes of College Students as a Response to Photochemical Air Pollution (EPA-600/S1-81-007)
- 10005 Effects of 2% Venous Carboxyhemoglobin on Exercise-Induced Angina Pectoris (EPA-600/S1-81-012)
- 10006 Health Risks of Human Exposure to Wastewater (EPA-600/S1-81-002)
- 10007 Effect of Industrial Particulate Samples on Alveolar Macrophages (EPA-600/S1-81-003)
- 10008 Chronic Toxicity of Lead and Cadmium II. Changes in the Central Nervous System of the F<sub>1</sub> Generation of Rats After Chronic Intoxication with Lead and Cadmium (EPA-600/S1-81-013)
- 10009 Effect of Chlorine Dioxide, Chlorite and Nitrite on Mice with Low and High Levels of Glucose 6 Phosphate Dehydrogenase (G6PD) in their Erythrocytes (EPA-600/S1-81-014)
- 10010 Assessment of Mutagenic Potential of Mixtures of Organic Substances in Renovated Water (EPA-600/S1-81-016)
- 10011 Air Pollution and Health Effects in Children Residing in Akron, Ohio (EPA-600/S1-81-004)
- 10012 Sensitive Biochemical and Behavioral Indicators of Trace Substances Exposure (EPA-600/S1-81-011)
- 10013 Mutagenesis Screening of Pesticides Using *Drosophila* (EPA-600/S1-81-017)
- 10014 Epidemiological Study of *Klebsiella pneumoniae* Among Pulp and Paper Mill Workers (EPA-600/S1-81-023)
- 10015 Investigation of Effects of Prolonged Inhalation of Nickel-Enriched Fly Ash in Syrian Golden Hamsters (EPA-600/S1-81-009)
- 10016 *Tradescantia* MCN-In-Tetrad Mutagen Test for On-Site Monitoring and Further Validation (EPA-600/S1-81-019)
- 10017 Method Development for the Assessment of Possible Human Exposure to Pesticides and Industrial Chemicals (EPA-600/S1-81-024)

### Environmental Protection Technology

- 20001 The Revised Organic Chemical Producers Data Base System (EPA-600/PS2-80-164)
- 20002 EXEC/OP Reference Manual Version 1.2 (EPA-600/PS2-80-182)
- 20003 Source Assessment: Dry Bottom Utility Boilers Firing Pulverized Bituminous Coal (EPA-600/S2-80-042C)
- 20004 Assessment of Atmospheric Emissions from Petroleum Refining (EPA-600/S2-80-075)
- 20005 Collection and Interpretation of Level 1 IR and LRMS Data (EPA-600/S2-80-177)
- 20006 GC/MS Methodology for Measuring Priority Organics in Municipal Wastewater Treatment (EPA-600/S2-80-196)
- 20007 Evaluation and Application of SO<sub>x</sub> Measurement Procedures for Kraft Recovery Furnaces (EPA-600/S2-80-186)
- 20008 Predicting Cattle Feedlot Runoff and Retention Basin Quality (EPA-600/S2-80-192)
- 20009 Innovative Destruction of Complex Industrial Wastes—Auto-Oxidation of Tannery Beamhouse Wastewater (EPA-600/S2-80-210)
- 20010 Long Term Effects of the Barge Florida Oil Spill (EPA-600/S2-81-012)
- 20011 Development of a Chemical Toxicity Assay for Pulp Mill Effluents (EPA-600/S2-80-206)
- 20012 Process Spill Monitoring, Control and Recovery in the Pulp and Paper Industry (EPA-600/S2-80-211)
- 20013 Assessment of Organic Emissions in the Flexible Packaging Industry (EPA-600/S2-81-009)
- 20014 The Cost of Alternative Flue Gas Desulfurization (FGD) Sludge Disposal Regulations (EPA-600/S2-80-178)
- 20015 Cost Comparisons of Treatment and Disposal Alternatives for Hazardous Materials. Volumes I and II (EPA-600/S2-80-188)
- 20016 GC/MS Analysis of Ambient Aerosols in the Houston, Texas Area (EPA-600/S2-80-194)
- 20017 Modified Factor Analysis of Selected RAPS Aerosol Data (EPA-600/S2-80-195)
- 20018 Polynuclear Aromatic Compounds-Synthesis and Purification (EPA-600/S2-80-204)
- 20019 Treatment of Primary Effluent by Rapid Infiltration (EPA-600/S2-80-207)
- 20020 Municipal Solid Waste Disposal in Estuaries and Coastal Marshlands (EPA-600/S2-80-212)

- 20021 Chlorination of Aquatic Humic Substances (EPA-600/S2-81-016)
- 20022 Concentration Technologies for Hazardous Aqueous Waste Treatment (EPA-600/S2-81-019)
- 20023 Field Tests of Corrosion Control to Protect Asbestos-Cement Pipe (EPA-600/S2-81-023)
- 20024 Production of Non-Food-Chain Crops with Sewage Sludge (EPA-600/S2-80-199)
- 20025 Metal Particulate Emissions from Stationary Sources. Volume 1. Standard Sampling and Analysis Method (EPA-600/S2-80-202)
- 20026 Metal Particulate Emissions from Stationary Sources. Volume 2. Characterization of Collection Filters (EPA-600/S2-80-203)
- 20027 Nationwide Assessment of Receiving Water Impacts from Urban Stormwater Pollution. Volume 1: Summary (EPA-600/S2-81-025)
- 20028 Particle Size Variation Effects on Landfilled Solid Waste: Cold Climate Studies (EPA-600/S2-81-018)
- 20029 Helminth and Heavy Metals Transmission from Anaerobically Digested Sewage Sludge (EPA-600/S2-81-024)
- 20030 Evaluation of Powdered Activated Carbon for Removal of Trace Organics at New Orleans, Louisiana (EPA-600/S2-81-027)
- 20031 Evaluation of Solid Sorbents for Water Sampling (EPA-600/S2-80-193)
- 20032 Biodegradation and Carbon Adsorption of Carcinogenic and Hazardous Organic Compounds (EPA-600/S2-81-032)

## Ecological Research

- 30001 Biliary Excretion and Tissue Distribution of Cadmium-109 Administered to Rats (EPA-600/PS3-80-085)
- 30002 Fate of Toxic and Hazardous Materials in the Air Environment (EPA-600/S3-80-084)
- 30003 Biological Monitoring of Toxic Trace Metals (EPA-600/S3-80-090)
- 30004 Modifications of Models Predicting Trophic State of Lakes: Adjustment of Models to Account for the Biological Manifestations of Nutrients (EPA-600/S3-81-001)
- 30005 Phytoplankton Water Quality Relationships in U.S. Lakes, Part VIII: Algae Associated With or Responsible for Water Quality Problems (EPA-600/S3-80-100)
- 30006 Aerosol Formation from Diesel Exhaust and SO<sub>2</sub>: A Chamber Study (EPA-600/S3-80-095)
- 30007 Houston Aerosol Characterization Study (EPA-600/S3-80-098)
- 30008 The Molluscan Shell: Biological Record of Environmental Change (EPA-600/S3-81-019)

- 30009 Interlaboratory Comparison: Acute Testing Set (EPA-600/S3-81-005)

## Environmental Monitoring

- 40001 Livermore Regional Air Quality (LIRAQ) Model (Transfer to EPA) (EPA-600/PS4-80-041)
- 40002 Thermal Analysis of the Manning S-4000 Portable Wastewater Sampler (EPA-600/PS4-80-045)
- 40003 Evaluation of Ozone Calibration Procedures (EPA-600/S4-80-050)
- 40004 Aerosol Analysis for the Regional Air Pollution Study: Final Report (EPA-600/S4-81-006)

## Socioeconomic Environmental Studies

### Interagency Energy-Environment Research and Development

- 70001 Water Filtration Control to Achieve Mine Water Pollution Control—The Dents Run Watershed Demonstration Project (EPA-600/PS7-80-128)
- 70002 Environmental Assessment of a Waste-to-Energy Process, Burlington Electric's Wood and Oil Co-Fired Boiler (EPA-600/PS7-80-148)
- 70003 Environmental Assessment of a Waste-to-Energy Process: Braintree Municipal Incinerator (EPA-600/PS7-80-149)
- 70004 Further Study of Adipic Acid Degradation in FGD Scrubbers (EPA-600/PS7-80-152)
- 70005 Demonstration of Debris Basin Effectiveness in Sediment Control (EPA-600/PS7-80-154)
- 70006 Support Studies in Fluidized-Bed Combustion—Annual Report, October 1978 - September 1979 (EPA-600/PS7-80-156)
- 70007 Fabric Filtration Analyses for Three Utility Boiler Flyashes (EPA-600/PS7-80-157)
- 70008 Fugitive Dust from Western Surface Coal Mines (EPA-600/PS7-80-158)
- 70009 Environmental Assessment of Waste-to-Energy Process: Union Carbide's Purox® Process (EPA-600/S7-80-161)
- 70010 The Environmental Impact of Coal Transfer and Terminal Operations (EPA-600/S7-80-169)
- 70011 Environmental Assessment of a Waste-to-Energy Process: GSA/Pentagon Co-Fired Boiler Tests (EPA-600/S7-80-170)
- 70012 Trace Metals and Stationary Conventional Combustion Processes (EPA-600/S7-80-155)
- 70013 Gaseous and Particulate Ammonia and Nitric Acid Concentrations, Columbus, Ohio Area—Summer 1980 (EPA-600/S7-80-179)

- 70014 Effect of Scrubbing Operating Conditions on Adipic Acid Degradation (EPA-600/S7-81-017)
- 70015 Reconnaissance Study of Leachate Quality from Raw Mined Oil Shale - Laboratory Columns (EPA-600/S7-80-181)
- 70016 Hydrologic Impacts from Potential Coal Strip Mining—Northern Cheyenne Reservation (EPA-600/S7-81-004)
- 70017 Aerosol Characterization of Ambient Air Near a Commercial Lurgi Coal Gasification Plant—Kosova Region, Yugoslavia (EPA-600/S7-80-177)

## Research Summaries

- 80001 Oil Spills (EPA-600/8-79-007)
- 80003 Controlling Nitrogen Oxides (EPA-600/8-80-004)
- 80005 Industrial Wastewater (EPA-600/8-80-026)
- 80006 Controlling Sulfur Oxides (EPA-600/8-80-029)
- 80008 Chesapeake Bay (EPA-600/8-80-019)

## Decision Series

- 90001 Advanced Fossil Fuels and the Environment: An Executive Report (EPA-600/9-77-013)
- 90004 Who's Who V. The Interagency Energy/Environment R & D Program Directory and Index (Decision Series) (EPA-600/9-79-017)
- 90005 Decision Series: Sulfur Emission: Control Technology and Waste Management (EPA-600/9-79-019)
- 90006 Decision Series: Sulfur Oxides Control in Japan (EPA-600/9-79-043)
- 90007 Acid Rain (EPA-600/9-79-036)

## Other Publications

- 90008 Research Highlights 1979 (EPA-600/9-80-005)
- 90010 ORD Extramural Program Guide FY 1981 (EPA-600/9-80-052)
- 90011 EPA and the Academic Community - Partners in Research. Solicitation for Grant Proposals FY 1981 (EPA-600/8-80-010)

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