REPORT FROM THE CHAIRMAN, U.S. NATIONAL COMMITTEE FOR MAB:

As the new Chairman of the U.S. National Committee for MAB, I send greetings to the MAB community and thanks for your continued interest and support. These are times of both continuity and change for the U.S. MAB Program. While the U.S. relationship to UNESCO has changed because of our government's withdrawal from UNESCO, we continue to cooperate and to collaborate with international programs and with the MAB Secretariat in Paris.

There is every intention of continuing the U.S. MAB Program. The U.S. National Committee for MAB has been examining the current organizational structure and is in the process of proposing alternative structural components in order to broaden the decision making process and increase the effectiveness of the Program. I hope these changes can be implemented within the next few months.

Financial support continues, although unfortunately at the low levels of the past few years. Fortunately the Department of State has recently increased the staff for the U.S. MAB Secretariat. The U.S. MAB Program continues thanks to the dedication of its many friends and supporters.

Sam McKee
National Academy of Sciences

...AND FROM THE EXECUTIVE DIRECTOR:

As you are undoubtedly aware, this is the first MAB BULLETIN in over a year. During that time many events which have affected the course of U.S. MAB have occurred.

The U.S. withdrawal from UNESCO has not resulted in isolation of the U.S. MAB Program as we continue to collaborate on a bilateral and multilateral basis with other MAB national programs as well as with MAB/Paris. While new funds are scarce throughout the government, U.S. MAB has been able to attract new supporting agencies. The National Air and Space Administration (NASA) joined the traditional supporting agencies--Department of State, U.S. Forest Service, and National Park Service--in FY-1984, and the National Oceanographic and Atmospheric Administration (NOAA) joined in FY-1985. Discussions concerning a new area of (Continued, next page)

A schedule of the August 14th program appears on the following page.
PROGRAM FOR MAB SYMPOSIUM, GAINESVILLE, FLORIDA, AUGUST 14, 1985 (See Page 1)

U.S. MAB's Tropical Research Program (Overview) Ariel E. Lugo
Ecology of Tropical Dry Forests Peter G. Murphy
Amazon Pasture Disturbances: Does the Forest Come Back? Christopher Uhl
Indigenous Models of Land Use in the Tropics Jason W. Clay
Long-term Tree Growth in the Luquillo Experimental Forest Frank H. Wadsworth
Traditional Agricultural Systems as Models for Development: Two Examples from the Humid Tropics Christine Padoch
Shelterbelt System to Minimize Nutrient Losses in Sustained Growth Tropical Forestry Carl F. Jordan
Comparison of Natural Forests and Plantations Ariel E. Lugo
Ecological Studies of Brosimum alicastrum Sw., an Underexploited Tropical Forest Resource Charles Peters
People and a Palm Forest: Babassu in Brazil Anthony B. Anderson
Shifting Cultivation, Treefalls and Forest Regeneration in a Single Species Dominant African Rainforest Terese B. Hart
Discussion, led by Ariel Lugo

EXECUTIVE DIRECTOR'S REPORT (Continued):

program focus, institutional collaboration and support are also underway with the Smithsonian Institution.

While the total level of MAB Program research funds does not reach early 1980s levels, increasing commitments to U.S. MAB allowed the Program to allocate in FY 1984 nearly a quarter of a million dollars to 36 projects (see selected listing, page 3). Our next issue will elaborate on the FY 1985 allocations and support levels. We will continue to devote a good portion of our time to the search for a larger and more secure funding base for future years.

At recent meetings of the U.S. National Committee for MAB, some priority areas for U.S. MAB support have been identified. Among them are: tropical forests, small island ecosystems and background pollution monitoring.

Dr. Paul Baker, who assumed chairmanship of the U.S. National Committee for MAB in 1983, has resigned and will be sorely missed. We are all very grateful for his agreeing to take on MAB at that time and for his almost two years of dedication to keeping the program on keel and exploring new waters for MAB. We send him our very best wishes on his forthcoming retirement as Head of the Department of Anthropology at The Pennsylvania State University, and we truly appreciate his leadership and friendship over the many years he has been affiliated with the MAB Program.

Dr. Samuel McKee of the staff of the National Academy of Sciences, and former Vice-Chairman of the National Committee, has taken over the reins and we look forward to a continued effective and successful relationship. Sam has been involved with MAB from the start and brings, also, sincere dedication to the MAB Program.

I continue to feel very positive about the U.S. MAB Program's future.

Roger E. Soles
Executive Director
In 1983 the National Committee for MAB determined that grants and allocations of U.S. MAB resources would be awarded only for proposals (based on their specific criteria) emanating from the U.S. MAB Directorates. This was deemed necessary to keep the Directorates together in a period of limited resources. It was difficult, then, to select the very best projects from the many which were submitted by the Directorates. The following are some of the projects which were funded during FY-1984:

- **Tropical Forests**: Research on the Relationship between Land Use, Water Quality, and Stress on Coastal Ecosystems in Tropical Islands
- **Temperate Forests**: Research on Nitrogen Availability and Nitrogen Cycling in Intensively Managed Loblolly Pine
- **Arid & Semi-arid Ecosystems**: Development of Research Proposal: Alternative Strategies for Coping with Severe/Sustained Drought within the Arid West
- **Fresh Water Resources**: Analysis of an Existing Environmental Data Base for Application to the Management of the Apalachicola River and Bay National Estuarine Sanctuary
- **Arctic Ecosystems**: Study and Data Analysis Relating to Brown Bear Nursery Areas in the Denali National Park Biosphere Reserve
- **Caribbean Island Ecosystems**: Videotape on Erosion Problems and Control on Small Caribbean Islands
- **Biosphere Reserves**: Support for Conference on the Management of Biosphere Reserves (Gatlinburg, December 1984)
  - Effects of Land Use Changes on Conservation of Biological Diversity in a Natural Region Containing Biosphere Reserves
  - Inventorying/Preparation of Videotape Footage of Biosphere Reserves/Protected Areas in the Lesser Antilles
  - Review of Applications of Remote Sensing Technology to the Boundary Effect Model of Reserves
  - Collection/Documentation of Baseline Data, Coram Research Natural Area/MAB Biosphere Reserve/Experimental Forest
  - Selection Panels to Develop Nomination of U.S. Sites for Inclusion in the International Network of Biosphere Reserves

(Continued)
MAB FY-1984 PROJECTS (Continued):

- **Perception of Environmental Quality:** Participation of Chairman of Perception Directorate in the International Regional Seminar for Latin America and the Caribbean on Environmental Perception
- **Pollution:** Research Project on a U.S. Global Pollution Pilot Background Monitoring Site

Funds were also provided from the FY-1984 budget to support the U.S. MAB National Committee and the Directorate groups to ensure continuation of the United States Man and the Biosphere Program.

For further information on any of the above projects, contact the Directorate Chairman (see list, last page).

SECRETARIAT NEWS:

At long last, new staffers for MAB! The State Department authorized two long-awaited additional fulltime positions for the MAB Secretariat which essentially has been a two-person office for several years now.

We welcomed Ms. Inez Hockaday, Budget Analyst, to the staff in early July. She has assumed the accounting responsibilities—handling grants, purchase orders, payments and related record keeping—formerly managed by Phyl Rubin. Ms. Hockaday will also assist the staff with special projects and assignments.

Brian Payne, U.S. Forest Service, who served MAB for three years at the International MAB Secretariat in Paris prior to his U.S. MAB assignment, will be "changing the guard" August 1st when J. L. Whitmore of the Forest Service will return to MAB for a second tour. Our thanks and very best wishes to Brian who will remain on tap to help MAB when needed.

We are actively recruiting for a permanent secretary and expect it will not be too much longer before the position is filled.

Another move! When you visit, come to 2100 K Street, N.W., Suite 506, Washington, D.C.

When you write, address mail to: U.S. Man and the Biosphere Program, OES/ENR/MAB, SA-9, Suite 506, Department of State, Washington, D.C. 20520.

When you call, dial (202) 632-2786 for Roger E. Soles, Executive Director
632-7571 for J.L. Whitmore, Forest Service Coordinator
632-2816 for Phyl Rubin, MAB Program Officer/BULLETIN Editor
632-7573 for Inez Hockaday, Budget Analyst
632-7573 for Secretary

NEWS FROM MAB/PARIS:

- Dr. Bernd von Droste was recently named Director of the Division of Ecological Sciences and Secretary of the MAB International Coordinating Council. Von Droste joined the International MAB Secretariat in 1973 and was involved mainly in the development of the International Biosphere Reserve network in addition to his work as Secretary for the "natural" part of UNESCO's Convention concerning the protection of the World's Cultural and Natural Heritage. We wish him success in his new, broader role in MAB during a time of many changes and the proposed strengthening of the MAB Program worldwide.

- A new publication, InfoMAB, has been developed by the staff at MAB/Paris to complement the efforts, on an international level, of the several MAB National Committees' newsletters (e.g. MAB/USA, MAB/Canada, MAB/Australia, MAB/Czechoslovakia's MAB-2 Newsletter). Initially, at least, it will not be issued on a regular basis, rather when there is enough accumulated information to warrant its compilation and distribution to those working in MAB—much like the U.S. MAB BULLETIN! The collection, handling and dissemination of information on the MAB Program at the national, regional and global levels is a key ingredient of program implementation and, ultimately, in determining the relative success of MAB. It is intended that InfoMAB fill the gap in the current MAB Information System.
AD HOC SCIENTIFIC ADVISORY GROUPS:

The International Coordinating Council (ICC) of the MAB Program established two advisory groups of experts—one to advise on the scientific aspects of the Program, and the other to advise on the implementation of the Biosphere Reserve Action Plan. The first group will consider new concepts and techniques to enhance and maintain good and credible science in the MAB Program, to strengthen the scientific and regional networks within MAB, and provide general scientific counsel. The second group will implement the Biosphere Reserve Action Plan including evaluating activities, recommending future priorities and suggesting funding sources.

Dr. Ariel Lugo, U.S. Forest Service, Chairman of the MAB Directorate on Tropical Forests; Dr. Otto Solbrig, Harvard University, member of the U.S. National Committee for MAB; and Dr. Orie L. Louckes, Holcomb Research Institute, Butler University, and member of the MAB Directorate on Biosphere Reserves, will serve on the science panel. Dr. William P. Gregg, Jr., National Park Service, Co-chairman of the MAB Directorate on Biosphere Reserves, and Dr. Michael Soule, School of Natural Resources, University of Michigan, were appointed to the advisory panel for Biosphere Reserves.

HIGHLIGHTS FROM THE DIRECTORATES:

• Caribbean Island Ecosystems (MAB-7): A seven-year-old idea conceived by the Caribbean Islands Directorate is fast becoming a reality. In 1979 this Directorate, working with UNEP and other sponsors, brought together officials from many small islands at the Conference on Environmental Management and Economic Growth in the Smaller Caribbean Islands. Recommendations from this meeting became UNEP's priorities when it designed its Environmental Programme for the Wider Caribbean.

Chairman William Beller spoke recently with officers from the United Nations and from MAB/Canada who endorsed the world project, looked to co-sponsorship and to making material contributions. From these conversations came the design for a workshop projected for June 1986.

It is expected that about 15 world island experts would participate. Using resource papers prepared by institutions in the five major ocean basins, these experts would list the issues of interdisciplinary research that scientists should pursue for a 10-year concentrated program of studies related to the development of small islands. The decade starting in 1990 would be a time for learning as much as possible about the way smaller islands grow, prosper and sometimes flounder.

A major recommendation, beyond calling for the "Decade," which could come out of this First Interoceanic Workshop on Environmental Management and Development in Small Islands would be the experts' proposal for a major world conference that focused on policy needs of smaller islands.

• Arid and Semi-arid Ecosystems (MAB-4): This Directorate will meet in conjunction with the International Arid Lands Conference (Tucson, Arizona, October 20 - November 1, 1985) for which it is a sponsor. Several Directorate members are chairing sessions or giving papers at the conference. Two of the papers relate to MAB-4's work: one will summarize results of its conference on Impacts of Limited Water for Agriculture in the Arid West (Asilomar, California, 1982). The volume, Water Scarcity--Impacts on Western Agriculture, published by the University of California Press, was developed from input by 71 specialists at this meeting. (See flyer.); the second paper will set forth the reasons for, and explain the proposed methodology of, the research proposal being developed by MAB-4 on Alternative Strategies for Coping with Severe/Sustained Drought within the Arid West.

• Urban Ecosystems (MAB-11): This Directorate's new focus examines the biophysical functioning of urban ecosystems and the implications for human health and welfare. The Directorate's research and application program will look at urban climate and air pollution with special emphasis on the role of vegetation interactions with the lower atmosphere. Dr. Rowan Rowntree, Project Leader of the U.S. Forest Service's research program at the State University of New York, Syracuse, is
DIRECTORATE HIGHLIGHTS (Continued):

the Chairman of this Directorate which has begun research in three urban areas: Dayton, Ohio; Salt Lake County, Utah; and Mexico City. Directorate members responsible for coordinating these urban field studies are: David Smith, Senior Planner, City of Dayton; Dale Quattrochi, Research Geographer, National Aeronautics and Space Administration; and, Merrill Ridd, Professor and Director, University of Utah Remote Sensing Center, respectively.

Biosphere Reserves (MAB-8): The third year of research and educational activities associated with the development of the Virgin Islands Biosphere Reserve will be initiated this summer. The work includes a wide range of interdisciplinary research projects to provide the scientific basis for management and sustainable conservation of the existing National Park Biosphere Reserve in concert with integrated development of the surrounding region. In developing the research program, special consideration is being given to understanding the needs and attitudes of the indigenous population. The work is being coordinated by the Virgin Islands National Park with the Island Resources Foundation in cooperation with the institutional members of the Virgin Islands Resource Management Cooperative which includes 14 research and resource management agencies, institutions, and organizations from Puerto Rico, the U.S. Virgin Islands and the British Virgin Islands.

A Biosphere Reserve selection panel was convened in May for the Eastern Forest Biogeographical Province and, in June, for the Virginian Mid-Atlantic Coastal Region. The panels identified candidate sites and the factors to be used for comparative description and evaluation against UNESCO criteria. Second meetings of the panels will be convened in September and October 1985 to develop recommendations to the U.S. MAB Directorate on potential Biosphere Reserve nominations with the expectation of completing nominations for each region in early 1986.

PARKS magazine, published by I.U.C.N., for the exchange of information on the planning, use and management of the world's national parks and other protected natural and cultural resources, has dedicated its summer 1985 issue to Biosphere Reserves. This issue illustrates, through a number of case studies, how the Biosphere Reserve concept is applied successfully in different parts of the world. (See PUBLICATIONS, page 7.)

A revised bibliography of references pertaining to Biosphere Reserves (over 200 references on Biosphere Reserve related issues and by geographic area) is now available. To receive your copy and be placed on a mailing list for periodic updated information, write to: Co-Chairman U.S. MAB Directorate on Biosphere Reserves National Park Service (498) P.O. Box 37127 Washington, D.C. 20013-7127

A survey of macro-reserves—protected areas in the United States of 5,000 acres or larger—will be conducted over the next two years. These areas will be identified and then categorized according to vegetation, management objectives, and protection status. This data will then be formatted for entry into the Conservation Data Base which is a cartographic information system being developed by The Florida State University in cooperation with U.S. MAB, the U.S. Geological Survey and the National Park Service. The data will aid in the selection of Biosphere Reserves and in future planning of protected area networks.

Temperate Forests (MAB-2): More than 400 riparian scientists, managers, and enthusiasts attended the First North American Riparian Conference in Tucson, Arizona in April. Twenty-two plenary, technical, and special sessions addressed a wide variety of riparian concerns ranging from riparian ecology to legal and institutional needs, from research to administration, and from grazing to urban planning. Over 100 papers were presented by scientists, managers, and policy makers from the United States, Mexico, Niger, Pakistan, and Syria. This conference, which was organized by the Riparian/Wetlands Committee and the School of Renewable Natural Resources, University of Arizona, was co-sponsored by more than 20 scientific and resource management organizations, including U.S. MAB's Directorates on Temperate Forests, Arid and Semi-arid Lands and Perception of Environmental Quality. Dr. Peter F. Ffolliott, Professor of Watershed Management, University of Arizona and Chairman of MAB-2, presided at a special session on Use of Riparian Ecosystems in Dryland Zones of the World which included his presentation on Land Use in the Maggia Valley, Niger, West Africa. Participants included many MAB Directorate members and MAB-affiliated individuals.
At a MAB-2 workshop, "Coupling of Ecological Studies on Three U.S. Forest Service Research Sites with Remote Sensing Studies," (Athens, Georgia, May 1985) reports of research activities and ecosystem productivity were presented for Coweeta Hydrologic Laboratory, North Carolina; H. J. Andrews Experimental Forest, Oregon; and Hubbard Brook Experimental Forest, New Hampshire. These areas, designated U.S. Biosphere Reserves, are principal research sites for the USDA Forest Service and all have long histories of basic and applied research activities sponsored by USDA and the National Science Foundation (NSF). The first two sites are also funded by NSF for intensive ecological programs under the Long-Term Ecological Research Program.

Papers on global modeling needs, remote sensing studies and ecological models capable of integrating a variety of information bases were given. Proceedings to be developed by co-principal investigators, MAB-2 member, M. I. Dyer (Oak Ridge Laboratory, TN) and D. A. Crossley (University of Georgia) will be published later this year and will be available from the U.S. MAB Secretariat.

Perception of Environmental Quality (MAB-13): Dr. Ervin H. Zube, Professor of Renewable Natural Resources and Chairman, Division of Landscape Resources, University of Arizona, and Chairman of this Directorate, presided over a session on Multiple-Use Planning and Management at the First North American Riparian Conference. With David E. Simcox of the School of Renewable Natural Resources, Dr. Zube prepared a Bibliography on Arizona Riparian Areas which was made available at the Conference and can now be ordered at cost. (See PUBLICATIONS, below.)

PUBLICATIONS:

The following publications may be ordered directly from the sources indicated. Provide a self-addressed mailing label for each publication ordered and enclose a check or money order if required.

- U.S. Strategy on the Conservation of Biological Diversity: An Interagency Task Force Report to Congress, February 1985. This report was prepared by an Interagency Task Force chaired by the Agency for International Development (A.I.D.) and is comprised of three sections. The first section describes the basis for concern over the loss of biological and genetic diversity in developing countries. The second section outlines current activities and programs undertaken by federal agencies to deal with natural resources conservation, and the third section presents a U.S. strategy for building upon those activities and programs to assist developing countries.

As the Task Force recognizes current severe constraints on government expenditures, the U.S. Strategy highlights recommendations for action by federal agencies and nongovernmental conservation organizations that can be accomplished with existing resources. The report also indicates a wide range of longer term actions to fully carry out the strategy.

Order from: Mark Shaffer, AID/S&T/FNR, Rm. 522, SA-18, Washington, D.C. 20523


- Man and the Biosphere Program, The International Network of Biosphere Reserves, MAB Project 8, Bibliography. June 1985. (See page 6 for address to send order.)


- PARKS, Summer 1985 Issue. Order from: Co-Chairman, MAB-8 (See address, p. 6.)
NEW PUBLICATIONS AVAILABLE FROM U.S. MAB SECRETARIAT:

Unless otherwise noted, the following publications are FREE and may be obtained by writing the U.S. MAB Secretariat at the address shown on the masthead. Be sure to enclose enough self-addressed mailing labels to cover your order.


- InfoMAB, UNESCO/MAB/Paris, No. 1, August 1984 (See article about InfoMAB, UNESCO/MAB/Paris, No. 2, October 1984 (InfoMAB on page 4.


OLD PUBLICATIONS STILL AVAILABLE FROM THE SECRETARIAT:

This is not a complete list of publications we have announced in earlier editions since some volumes are in very short supply; you may still order from 1983/4 BULLETINS—if we have it, we’ll send it. We have a good supply of the following:


### UPCOMING U.S. MAB ACTIVITIES:

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<th>August 14, 1985</th>
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<td>MAB-6b</td>
<td>NORTHERN SCIENCE NETWORK MEETING</td>
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<td>MAB-4</td>
<td>ARID LANDS: TODAY AND TOMORROW</td>
<td>October 20-25, 1985</td>
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<td>An International Arid Lands Research and Development Conference</td>
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<td>MAB-7b</td>
<td>First Interoceanic Workshop on: ENVIRONMENTAL MANAGEMENT AND DEVELOPMENT IN SMALL ISLANDS</td>
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<td>Caneel Bay, U.S. Virgin Islands</td>
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<td>MAB-8</td>
<td>MAB TECHNICAL SYMPOSIUM ON BIOSPHERE RESERVES including field trips to Biosphere Reserves Fourth World Wilderness Congress</td>
<td>September, 1987</td>
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### U.S. NATIONAL COMMITTEE FOR MAN AND THE BIOSPHERE:

- **Dr. Samuel McKee**, Chairman  
  National Academy of Sciences  
  Room JH-653  
  2101 Constitution Avenue, N.W.  
  Washington, D.C. 20418  
  (202) 334-2618

- **Mr. William S. Beller**  
  2701 Largo Place  
  Bowie, Maryland 20715  
  (301) 262-2701

- **Dr. Edward A. Fernald**  
  Director  
  Institute of Science and Public Affairs  
  Resource Analysis Center  
  The Florida State University  
  Tallahassee, Florida 32306  
  (904) 644-2008

- **Dr. William P. Gregg, Jr.**  
  USDA National Park Service (498)  
  P. O. Box 37127  
  Washington, D.C. 20013-7127  
  (202) 343-8122

- **Dr. Michael A. Little**  
  Department of Anthropology  
  Room 113, Science I Building  
  State University of New York  
  Binghamton, New York 13901  
  (607) 798-2732/2737

- **Mr. Bill Long**  
  Director, Office of Food and Natural Resources (OES/ENR)  
  Bureau of Oceans and International Environmental and Scientific Affairs  
  Department of State  
  Washington, D.C. 20520  
  (202) 632-2418

- **Dr. Otto Solbrig**  
  Professor, Natural Sciences  
  Harvard University  
  22 Divinity Avenue  
  Cambridge, Massachusetts 02138  
  (617) 495-4302

### U.S. MAB DIRECTORATE CHAIRMEN:

- **MAB-1 (Tropical Forests)**  
  **Dr. Ariel Lugo**, Project Leader  
  Institute of Tropical Forestry  
  Box A0  
  Rio Piedras, Puerto Rico 00928  
  (809) 763-3939

- **MAB-2 (Temperate Forests)**  
  **Dr. Peter F. Ffolliott**  
  School of Renewable Natural Resources  
  University of Arizona  
  Tucson, Arizona 85721  
  (602) 621-7276/7255
U.S. MAB DIRECTORATE CHAIRMEN (Continued):

MAB-3 (Grazing Lands)
Dr. W. James Clavson
Agronomy & Range Science Extension
Cooperative Extension
University of California
Davis, California 95616
(916) 752-3455/0700

MAB-5a (Fresh Water Resources)
Dr. Edward A. Fernald
Institute of Science and Public Affairs
The Florida State University
361 Bellamy Building
Tallahassee, Florida 32306
(904) 644-2008

MAB-7b (Caribbean Island Ecosystems)
Mr. William S. Beller
2701 Largo Place
Bowie, Maryland 20715
(301) 262-2701

MAB-11 (Urban Ecosystems)
Dr. Rowan A. Rowntree
USDA Forest Service
5 Moon Library
State University of New York/CESF
Syracuse, New York 13210
(315) 470-6731

MAB-13 (Perception of Environmental Quality)
Dr. Ervin H. Zube
School of Renewable Natural Resources
325 BioSciences East
University of Arizona
Tucson, Arizona 85721
(602) 621-5462/7255

MAB-4 (Arid and Semi-Arid Lands)
Professor Henry Caulfield
Department of Political Science
Colorado State University
Fort Collins, Colorado 80523
(303) 491-6806 (Lv Msgs on Ext #5156)

MAB-6b (Arctic Ecosystems)
Dr. Charles Slaughter
Principal Watershed Scientist
Institute of Northern Forestry
U.S. Department of Agriculture
Fairbanks, Alaska 99701
(907) 474-7443

MAB-8 (Biosphere Reserves)
Dr. William P. Gregg, Jr. Co-Chair
USDI National Park Service (498)
P. O. Box 37127
Washington, D.C. 20013-7127
(202) 343-8122
Dr. Stanley Krugman, Co-Chair
USDA Forest Service
P.O. Box 2417, RPE 811
Washington, D.C. 20013
(703) 235-8200

MAB-14 (Pollution)
Dr. G. Bruce Wiersma, Manager
Earth & Life Sciences
EG&G Idaho, Inc.
Idaho National Engineering Laboratory
P.O. Box 1625
Idaho Falls, Idaho 83415
(208) 526-1590/FTS 5-583-1590

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We try very hard to keep track of our readers and, when possible, track down new addresses for those few whose BULLETINS are returned because of a change in address. IF YOU NO LONGER WISH TO RECEIVE THE BULLETIN, PLEASE CALL (202) 632-2816, OR WRITE TO ADDRESS ON MASTHEAD. If you know others who would like to receive the BULLETIN, please invite them to send or call in their names and addresses. Thank you!