



BULLETIN

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NOTE:

If your attempt to reach the MAB Secretariat by telephone fails--all lines busy or no answer--and you have an urgent matter to discuss, you may call (202) 632-2762 and leave a message. However, please continue to use the regular numbers, which follow, and the above number only in urgent situations:

Jay Blowers	(202) 632-2786
James Corson	7573
Russell Burns	7571
Phylis Rubin	2816
Marian Keough	2816

Thank you!

RESEARCH PROPOSALS INVITED:

This issue of the MAB BULLETIN is devoted to the Consortium for the Study of Man's Relationship with the Global Environment of the U.S. Man and the Biosphere (U.S. MAB) Program.

You are invited to submit research proposals to the Consortium for possible funding in fiscal year 1982.

The Consortium is composed of participating federal agencies and U.S. MAB. It was established to operate harmoniously within the existing framework of U.S. MAB to encourage and support interdisciplinary research that complements the missions of participating agencies and which focuses upon:

- the general study of the structure and function of the biosphere and its ecological regions so as to provide an improved environmental information base for decisionmaking,
- systematic observation of changes brought about by man in the biosphere in order to provide new tools for environmental planning and resource management,
- the study of the effects of these changes upon human populations so as to improve our ability to predict these effects and to develop new strategies to lessen their disruptive impact upon human lives,
- the compilation, analysis, and dissemination of this information in forms usable by decisionmakers, educators, scientists, and land managers.

The Guidelines that follow provide all essential information for submitting proposals to the Consortium for the Study of Man's Relationship with the Global Environment.

CONSORTIUM FOR THE STUDY OF MAN'S RELATIONSHIP WITH THE GLOBAL ENVIRONMENT

GUIDELINES FOR FY-82 RESEARCH PROPOSALS

INTRODUCTION

Guidelines for submitting proposals for research grants are attached. They were developed under the direction of the Governing Committee of the U.S. Man and the Biosphere (MAB) Program's Research Consortium to assist scientists in organizing their proposals and to facilitate the proposal review and evaluation process. The Governing Committee is composed of one representative from each of the funding agencies, Chairmen from each of the participating MAB Directorates, and the Executive Director of the U.S. MAB Program, who serves as Consortium Chairman.

Appended to the Guidelines are mission statements for each of the sponsoring Federal Agencies, objectives of the Consortium and of the U.S. MAB Program, and a copy of the form to be used to evaluate research proposals. Also included are specific areas of interest to the Governing Committee. This background material should prove useful in focusing the research proposed and in evaluating proposals equitably.

A calendar of events with deadline dates for fiscal year 1982 also is included.

DETAILS

Federal Funds Available: A maximum of \$60,000 per research proposal.

Principal Investigators: Principal investigators affiliated with universities and non-profit organizations will be issued grants. Office of Management and Budget (OMB) Circular A-110 shall be used to model financial aspects of research proposals from these sources. Principal investigators affiliated with state and local governments shall follow the administrative requirements in OMB Circular A-102 as a model. To preclude possible funding problems, federal employees who submit proposals should do so in conjunction with a principal investigator from a non-federal organization or institution designating that person's institution as the recipient of the grant.

Type of Grant: Grants to U.S. scientists at research institutions will be made under a reimbursable agreement unless there is a justifiable fiscal need for an advance of funds. Regardless of how grants are made, 20 percent will be withheld pending receipt and acceptance of all reports agreed upon in the grant. As a minimum, an interim progress report and a final report will be required. The latter must be in camera-ready form suitable for publication and be received by the U.S. MAB Secretariat no later than two months after the expiration date of the grant. U.S. MAB Report No. 2 may be used as a format for the final report. Copies will be made available to grantees upon request. Results of MAB-sponsored research also may be published elsewhere providing that appropriate credit is given to the U.S. MAB program.

Longevity of Research Grants: One-time funding with a three-year maximum for completion of work.

Call for proposals: The Chairman of the Consortium will make an announcement calling for research proposals annually and as early in the federal fiscal year as possible.

Areas of Consideration: Proposals relating to Specific Areas of Interest listed in the Appendix will be given priority consideration.

The Consortium will consider only research projects relevant to improving the level of knowledge of interrelationships between human activities and ecological systems. The Secretariat plans to publish monographs for many of the funded proposals; therefore, a project must result in a publishable product as a final report.

The Consortium will not consider funding of:

- training, interpretive, and educational projects,
- development of policies, guidelines, and plans,
- research not primarily focused on human interrelationships with natural or man-made ecosystems,
- agency research readily fundable through agency science programs,
- research not demonstrably satisfying U.S. MAB objectives and project criteria,
- workshops, conferences, symposia or seminars.

In making its selection, members of the Governing Committee will consider the degree to which the following criteria are satisfied.

CRITERIA

- a. Research is compatible with the mission of at least one of the funding agencies and with priorities (Specific Areas of Interest listed in the Appendix) established by U.S. MAB Directorates participating in the Consortium. Participating Agencies are: USDA Forest Service, USDI National Park Service.
- b. Research is multidisciplinary, with particular emphasis on projects involving both the natural and social sciences. Each proposal must include the impact of man on natural systems, the repercussions of man-induced modifications of natural systems on man, or both elements.
- c. Research is of national, regional, or international interest. Submission of proposals of international interest is particularly encouraged. When international, research should involve collaboration with scientists in other countries and broad applicability in addressing problems of international significance. Proposals for work in other nations also must show how affected populations will be involved.
- d. Research is highly relevant to environmental, land use, or natural resources management policy formulation at the agency, regional, national, or international level, and is designed to provide the kind of information needed to solve relevant, practical problems.
- e. Research which utilizes Biosphere Reserves in the U.S. or other countries as the work site.

SUBMISSION OF PROPOSALS

ALL PROPOSALS MUST BE SPONSORED OR COSPONSORED BY U.S. INSTITUTIONS OR ORGANIZATIONS

The original and 20 copies of each proposal, prepared in the format herein described, should be submitted to:

U.S. MAB Secretariat
U.S. Department of State
IO/UCS, SA-5
Washington, D.C. 20520

Proposals must be received at the Secretariat on or before the deadline date stated in the annual announcement by the Chairman of the Governing Committee of the Consortium (see Calendar of Events on page 5). Recipients of grants will be notified during July and grants will be awarded by July 30. Questions may be addressed to the U.S. MAB Program Coordinator: phone--(202) 632-7571 or FTS 632-7571.

Documents showing permission to enter and conduct the proposed research in each involved foreign nation must accompany the proposal.

FORMAT

The format was developed by the Governing Committee of the Consortium to assist researchers in organizing their proposals and to facilitate the review and evaluation process. The proposal must not exceed 12 pages, single-spaced, plus curricula vitae, literature cited, one-page abstract, title page, and budget. Curricula vitae must not exceed 5 pages single-spaced. Proposals varying from the recommended format will not be considered for funding.

TITLE PAGE

RESEARCH PROPOSAL SUBMITTED TO THE CONSORTIUM FOR THE STUDY OF MAN'S RELATIONSHIP WITH THE GLOBAL ENVIRONMENT

Title of Proposal:

Principal Investigators: Names, addresses, phone numbers, affiliations

Institution or Agency:

Proposed Starting Date:

Estimated Completion Date:

Duration: (months)

Total Budget: Estimate, in U.S. dollars, all direct and indirect costs. Contributions in kind by supporting institutions and collaborating foreign scientists and institutions also should be listed and those essential to the success of the project must be identified.

Endorsements: Signatures and titles of Principal Investigators and Institutional Officials

Certification: Has this proposal, or related one, been submitted for funding elsewhere? If no, so state. If yes, provide particulars including grantor, date submitted, and action taken or pending. Is any part of this or a companion proposal being funded by other than sources identified in this proposal? If so, give details including name, address, and phone number of a contact. If not, please indicate.

Abstract: One page to include the title, size and duration of the grant requested, a statement of the problem, its significance, and its relevance to Consortium objectives. Abstract page should not include the name or affiliation of the principal investigator (P.I.).

CONTENTS

Table of Contents:

Background:

Objectives and Scope: Include intended audience.

Methodology: (a) Research design identifying variables to be measured, and sampling and data collection procedures.

(b) Method of analysis.

(c) Schedule of operations for field and/or laboratory.

Reports and Manuscripts: Schedule and plans for publication(s), including outlets (in addition to the MAB monograph series).

Literature Cited:

Principal Investigator(s) Biographical Data: Include qualifications.

Available Facilities: Brief description of field, laboratory, bibliographic, computer, and other facilities available to complete the project.

Sample of Contents (continued)BUDGET

Request for U.S. MAB Consortium Funds

1. Salaries and Wages:		
Principal Investigator		_____
Co Investigators		_____
Assistants		_____
Secretary-Typist		_____
Others (explain)		_____
	Subtotal - Item #1	_____
2. Staff (fringe) Benefits (show calculation):		_____

	Subtotal - Item #2	_____
3. Expendable Materials and Supplies:		_____

4. Non-expendable Equipment: (Itemize by unit, quantity, and price if \$300 or more per unit ^{1/})		_____
5. Travel and Per Diem--itemize: ^{2/}		
Travel		_____
Per Diem		_____
	Subtotal - Item #5	_____
6. Computer Costs: (Itemize)		_____
7. Other Direct Costs: (Itemize)		_____
	Total Direct Costs (all of above)	_____
8. Indirect (non-recoverable) Costs: (Show calculation)		
	_____ % of total direct costs ^{3/}	_____
9. Contributions from other sources--list		_____
10. Total cost (U.S. MAB and other)		_____
	CONSORTIUM COSTS (Direct and Indirect)	_____

^{1/} If equipment costs \$300 or more per unit, include justification statement with budget request. Equipment costing \$300 or more must be identified and its ultimate disposition agreed upon before the grant is awarded.

^{2/} Travel must be in accordance with Federal Travel Regulations. Per Diem cannot exceed the maximum published rates for each locality.

^{3/} In general, projects with high indirect costs do not fare well in the selection process. Those that do not exceed 25% will be most competitive.

CALENDAR OF EVENTS

Fiscal Year 1982

<u>Deadline Date</u>	<u>Event</u>
October 1, 1981	Call for Proposals.
<u>1982</u>	
January 29	Proposals must be received by the U.S. MAB Secretariat by January 29. No exceptions will be allowed.
February 1	Proposals distributed for review to representatives of participating agencies to determine which meet Agency requirements for funding, to the Executive Director of the U.S. MAB Program for conformance to objectives of the Consortium, and to Chairmen of participating MAB Directorates for compliance with their goals, priorities, and objectives.
March 1	Preliminary reviews completed and returned to Chairman of the Governing Committee with comments.
March 5	Proposals distributed for peer review, evaluation, and comment (technical review).
April 23	Final reviews by peers returned to Chairman of Governing Committee. None will be accepted after April 23.
April 30	Meeting of Governing Committee to consider revisions in proposals suggested by peers. Contact Principal Investigators, as necessary, to determine interest in modifying proposals to resolve minor problems identified during peer review.
May 28	Revisions to, or clarifications of, proposals must be received by the U.S. MAB Secretariat by May 28. None will be accepted after this date.
June 18	Final meeting of Governing Committee to select and recommend proposals for funding.
June 30	Notification of acceptance of proposals. Fiscal and technical details to be negotiated.
July 30	Grants awarded.

Note: The use of express mail is recommended to meet tight deadlines. The deadlines are not flexible. Proposals or information failing to arrive in accordance with these deadlines will not be considered in subsequent deliberations or decisions.

APPENDIX

The Mission of the Forest Service is federal responsibility for national leadership in forestry; promotion and achievement of a pattern of natural resource use that will best meet the needs of people now and in the future; protection and improvement of the quality of air, water, soil, and natural beauty; protection and improvement of the quality of the open space environment in urban and community areas; generation of forestry opportunities to accelerate rural and community growth; encouragement of the growth and development of forestry-based enterprises that readily respond to consumers' changing needs; encouragement of optimum forest land ownership patterns; improvement of the welfare of underprivileged members of society; involvement of the public in forestry policy and program formulation; encouragement of the development of forestry throughout the world; expansion of public understanding of environmental conservation; and development and availability of a firm scientific base for the advancement of society.

The Mission of the National Park Service is to administer the properties under its jurisdiction for the enjoyment and education of our citizens, to protect the natural environment of the areas, and to assist states, local governments, and citizens groups in the development of park areas, the protection of the natural environment, and the preservation of historic properties. The Service develops and implements park management plans and staffs the area under its administration; provides leadership in the preservation of historic properties and representative natural areas; studies the natural environment as a means for improving the scientific basis for natural resource management through the promotion of inventories, baseline studies, and relationships of man-caused impacts in pristine natural areas.

The Objectives of the MAB-Agency Consortium are to operate harmoniously within the existing framework of the U.S. Man and the Biosphere Program; to encourage and support research that complements the mission of the participating agencies; to identify people-related problems of the environment; to initiate and carry out research programs directed toward a systematic resolution of these problems; to encourage publication and dissemination of meaningful research results; and to support and facilitate related activities furthering these purposes.

The Objective of the Man and the Biosphere Program is to fill significant gaps in our understanding of the structure and function of ecosystems and of impacts and repercussions caused by human intervention and to provide the scientific knowledge, trained personnel, and support needed to solve practical problems of natural resource management.

SPECIFIC AREAS OF INTEREST

For FY-82, the Governing Committee of the Consortium hopes to attract proposals aimed at solution of specific, urgent, MAB-related problems. Consequently, specific priority areas of interest are described below. This will not exclude proposals in other areas which meet one or more of the criteria previously stated, but the Governing Committee will show particular interest in proposals that are aimed at one or more of the following:

1. Energy production, especially:
 - a. Use of temperate zone forest resources for energy, and possible adverse impacts on agricultural production.
2. Tropical land use/land capacity problems, especially:
 - a. Study of dry tropical forests, related fuelwood shortages, and associated site degradation.
 - b. Developing of techniques for restoring productive capacities of sites devastated by overgrazing, fire, logging, or other misuses of land.
 - c. Study of ecological and social implications of the conversion of forests to pastures.
 - d. Study of economic and environmental costs and benefits of tree plantations.

3. Multiple-use techniques/problems, especially:
 - a. Quantification of multiple-use development impacts in forest land use planning.
 - b. Multiple-use of natural forests and of tree plantations.
 4. Baseline and monitoring studies, especially:
 - a. Establishing a framework for long-term international coordination of scientific activities in two or more biosphere reserves.
 - b. Comparative monitoring, ecological research, and collection of baseline information from observational and manipulative portions of domestic and international biosphere reserves.
 - c. Studies to provide new perspective on implications of progressive genetic and ecological isolation of biosphere reserves and other protected natural areas resulting from land use changes.
- NOTE: Baseline studies and collection of baseline information are excluded from criterion b. on page 2.
5. Other, especially:
 - a. Impacts of atmospheric wet fall and dry fall pollution.

PROPOSAL REVIEW FORM

IMPORTANT NOTE TO REVIEWERS: YOUR ANONYMITY WILL BE MAINTAINED. HOWEVER, YOUR SCORES AND COMMENTS MUST BE SURRENDERED UPON WRITTEN REQUEST. FOR THIS REASON, AND TO FACILITATE THE WORK OF YOUR U.S. MAB SECRETARIAT, WE REQUEST THAT COMMENTS BE TYPEWRITTEN.

Provide a rank for each of the criteria listed below. The ranks are:

- | | |
|---------------------------------|--------------------------|
| 0 = unacceptable or not present | 3 = adequate, OK, medium |
| 1 = poor or low | 4 = good |
| 2 = marginally adequate | 5 = excellent or high |

Generate the score by multiplying each rank by its factor (F)

CRITERIA

- | | <u>Rank</u> | | <u>F</u> | | <u>Product</u> |
|---|-------------|---|----------|---|----------------|
| 1. How well does the research problem relate to the Specific Areas of Interest listed in the Appendix to the Guidelines? | () | x | 3 | = | () |
| Which Areas? | | | | | |
| Comment: | | | | | |
| 2. Priority or urgency of research | () | x | 2 | = | () |
| 3. How important will results of this research be to practitioners? | () | x | 1 | = | () |
| 4. What is the likelihood of immediate and extensive adoption of results, assuming technology transfer routes are available? | () | x | 1 | = | () |
| 5. How does the proposal reflect the Principal Investigator's knowledge of the field (do the P.I.s know what they are doing?) | () | x | 2 | = | () |
| Explain: | | | | | |
| 6. Overall quality of proposal. Is it well written? Are objectives clear, procedures explicit, etc? | () | x | 1 | = | () |
| Explain: | | | | | |
| 7. Are the procedures to be used adequate? | | | | | |
| a. Experimental design | () | x | 1 | = | () |
| b. Experimental methods. | () | x | 1 | = | () |
| c. Data reduction. | () | x | 1 | = | () |

Comment:

8. BUDGET. Do you feel the budget is:

() Too low to adequately carry out work. Why?

() About right.

() Too high for project as described. Why?

TOTAL SCORE _____

Note to reviewers: A perfect score is 65. Do not use or invent another system.

SUMMARY

Proposal No. 82- _____

Title of Proposal _____

Principal Investigator(s) _____

Institution _____

Score _____

() Accept Proposal as written.

() Accept Proposal if changes noted below can be made.

() Reject Proposal because:

() Inadequate Proposal (comment below).

() Duplicates ongoing work (note below).

() Has some merit but needs major changes in proposal; the proposal must be completely rewritten (explain below).

Comments, notes, and explanations:

Reviewer: _____
(Signature and date)

(Reviewer's name typed or printed)

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