



Hunt Institute for Botanical Documentation  
5th Floor, Hunt Library  
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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.



YUN KAX  
DIOS DEL MAIZ

# Hotel "EL ITZA"

C. Flores Petén, 23 Junio de 1974

Señor Dr. Ronaldo Looney  
cuerto 30x

Timbres en Orden No. 1229 Patente de Comercio 32307 DEBE:

Por Hospedaje  
y alimentación

suma

Q 30.50

ie Q. 4/día + alimentación @ Q. 2

**CANCELADO**  
**HOTEL EL ITZA**  
**DORA M. DE BALDIZON**  
**FLORES-PETEN**

Q 30.50



ITEMIZED LIST OF EXPENDITURES

RT plane transportation: Baton Rouge - Guatemala City .....	\$298.85
Excess baggage charge .....	25.35
RT plane transportation: Guatemala City - Flores .....	24.00
Pension Reforma Guatemala City (June 5 - 11, 1974) .....	83.80
	<hr/>
<u>TOTAL</u> .....	<u>\$431.20</u>

Bh.  
5-1X-79

FROM: Bernard Lowy, Professor  
Botany Department

CAMPUS CORRESPONDENCE  
Louisiana State University

TO: Office of the Auditor

Date: 5/14/74

Re: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ 410.00 representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my personal account until these funds are expended for the purpose approved, and a detailed report with proper receipts rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. Travel expenses will be submitted to the Graduate School on a University Expense Voucher. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

Cash payment of student or non-student wages is not allowable from this grant. If such funds are required, they must be transferred by the Office of the Graduate School to the departmental budget and such employees paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible. Such a request when necessary must come through the Office of the Dean of the Graduate Schools by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during the current fiscal year, and all necessary receipts and other information and any unexpended cash sent to this office by September 15, 1974. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1974, and you will then have sufficient time to make a settlement of any additional grant given to you.

---

I hereby agree that final settlement of this advance will be made by me on or before September 15, 1974. If settlement of this advance is not made by this date, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

484-32-1517

Social Security Number

Bernard Lowy  
Signed

May 14 - 1974  
Date



## DR. TRAYNHAM NEW DEAN

On July 1, Professor James G. Traynham, who had been chairman of the Department of Chemistry since 1968, assumed the post of Dean of the Graduate School and Vice-Chancellor for Advanced Studies and Research.

A native of Georgia, Dean Traynham did his undergraduate work at the University of North Carolina, where he was elected to Phi Beta Kappa and was chosen the outstanding chemistry student. Following receipt of his Ph.D. from Northwestern University in Evanston, Illinois, he served for three years as an assistant professor at Denison University before coming to LSU. He has been here for 20 years, 10 of them as full professor. He is the author of more than 60 publications, including a book on *Organic Nomenclature: A Programmed Introduction*.

Dean Traynham has received several research grants from the National Science Foundation. In addition, he received in 1959 an award from the Petroleum Research Fund (administered by the American Chemical Society) which supported study and research at Zurich, Switzerland, and in 1972 was named a NATO Senior Fellow in Science. As such, he studied and did research at Saarbruecken, Germany. He is a member of Sigma

### GRADUATE SCHOOL CALENDAR Fall 1973

September 6 . . . . .	Final date for adding courses for credit
September 13 . . . . .	Final date for dropping courses without receiving a grade of "W" Applications due for Graduate School Foreign Language Tests
October 2 . . . . .	Applications due for Graduate Record Exam
October 5 . . . . .	Final date for submitting applications for admission to candidacy (general examination reports) for the doctorate at the spring semester commencement
October 5 . . . . .	Final date for submitting to Graduate School applications for master's and doctoral degrees to be awarded at the fall semester commencement
October 12 . . . . .	Applications due for Admission Test for Graduate Study in Business
October 20 . . . . .	Graduate School Foreign Language Tests
October 26 . . . . .	Final date for departments to recommend to Graduate School appointment of examining committees for degrees to be awarded at fall semester commencement
October 27 . . . . .	Graduate Record Examination
November 3 . . . . .	Admission Test for Graduate Study in Business
November 9 . . . . .	Final date for December graduates to submit theses and dissertations to examining committees

XI and in 1965 was recipient of the Charles E. Coates Award for contributions to research, the American Chemical Society, and the community.

Since 1967 he has been a Visiting Scientist for the American Chemical Society, by invitation visiting colleges as lecturer and consultant. He is also a member of the ACS Council and serves on its organic chemistry Committee on Nomenclature.

### GRADUATE COUNCIL ACTIONS

The Graduate Council, desirous of making certain that examining committees be properly composed and have adequate time thoroughly to consider theses and dissertations, has urged that the earliest feasible dates be set for recommending examining committees to the Graduate School and for turning in theses and dissertations. It also urged that these dates be published in the graduate calendar.

In keeping with the wishes of the Council, the Graduate School drew up a calendar, which the Council ap-

proved. This calendar will be found, among other places, in both the *Graduate Report* and the *Graduate School Catalog*. In other actions, the Council confirmed the policy of requiring a short course to be of at least three weeks duration, full time, before graduate credit may be obtained, at the rate of not more than one semester-hour of credit per week.

Applicants who wish to enter the Graduate School in the summer session of 1974 or any later term will be admitted only after receipt of their scores on the aptitude portion of the Graduate Record Examination.

### New Council Members

The two new appointees to the Graduate Council, serving five-year terms, are both women members of the faculty. Doris J. Conway, professor of education, has been on the faculty of LSU since 1967. Holder of an Ed.D. from Oklahoma State, she has been since last August, coordinator of graduate studies in the Department of Education. Carolyn Har-

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

BATON ROUGE · LOUISIANA · 70803

*College of Arts and Sciences*

DEPARTMENT OF BOTANY

October 12, 1973

Dr. James G. Traynham  
Dean, Graduate School

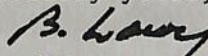
Dear Dr. Traynham:

I am submitting the accompanying request for a travel grant to enable me to continue ethnomycological studies in Guatemala and Mexico in the summer of 1974.

During the summer of 1973 (June-July), with the assistance of a travel grant from the Council, I visited numerous localities in Honduras, Guatemala and Mexico seeking information on the use of mushrooms by native populations, the names in various Indian dialects for the species found and identified and whatever folklore might be associated with each collection. As a result of this inquiry, I found among the Quiche Indians of Guatemala and the Tzotzil of Chiapas, Mexico, that a mythology exists which links Amanita muscaria, an hallucinogenic mushroom, with thunder and lightning. A similar mythology is traditional among the Hindus but such a belief has not been previously reported from the Americas. I was able to combine field work with a linguistic inquiry and to verify my findings by consultation with professional linguists in Guatemala. A paper summarizing these findings is in press.

The purpose of this brief statement is to acquaint the Council members with some results obtained from the project which they supported.

Sincerely yours,



Bernard Lowy  
Professor of Botany

Publications of B. Lowy 1968 to Present

- Un hongo de piedra preclásica de Mixco Viejo, Guatemala. Boletín de la Sociedad Botánica de México 2 (1968): 9-15.
- Taxonomic problems in the Heterobasidiomycetes. Taxon 17 (1968): 118-127
- Septate holobasidia. Taxon 18 (1969): 632-634.
- Laboratory Manual for General Mycology, (1969) 89 pages (offset).
- Heterobasidiomycetes. In Mycological Guidebook. 1970. pp. 343-351.
- Keys to Neotropical Tremellales. Nova Hedwigia 19 (1970): 407-438.
- Tremellales. Flora Neotropica. Monograph No. 6. Hafner Publishing Co., Inc., New York. 1971. pp. 1-153. (Book).
- Some observations on ethnomycology in Mexico and Guatemala. Revista Interamericana Review 1 (1971): 39-49.
- New records of mushrooms stones from Guatemala. Mycologia 63 (1971): 983-993.
- A newly discovered copy of a Maya Codex. Revista Interamericana Review 2 (1971): 405-407.
- Mushroom symbolism in Maya Codices. Mycologia 64 (1972): 816-821.
- A new species of Arrhytidia. Mycologia 64 (1972): 904-906.
- 13 book reviews in national journals since 1968.

### Curriculum Vitae

Bernard Lowy, born February 29, 1916, New York, N. Y. Present position: Professor of Botany and Curator, Mycological Herbarium Louisiana State University, Baton Rouge, Louisiana. B.S. Long Island University, 1938; U. S. Army 1942-1945; M.S., Ph.D. University of Iowa, 1949-1951; Research Investigator, Barro Colorado, Panama, 1950; Assistant Professor Botany, Louisiana State University, 1951; Fulbright Scholar Perú (Universidad Nacional de Agricultura, Lima and Universidad de Cuzco, 1958;) Visiting Professor Universidad Nacional de Tucumán, Argentina, 1959; American Philosophical Society grantee, Mexico, 1962; Sigma Xi grantee, Guatemala, 1963; Research Participant, Organization for Tropical Studies, Costa Rica, 1964; Fulbright Scholar Brazil, Instituto de Botânica, São Paulo, 1965-1966; Participant in "Simposio sobre a Biota Amazónica", Belém, Pará, Brasil, 1966; Invitational Lecturer, Universidad "Cayetano Heredia", Lima, Perú, 1969; Fulbright Scholar Perú (Universidad Nacional de Piura, 1972) Participant in III Simposio de Biología Tropical Amazónica, Iquitos, Perú, 1972.

Published 40 papers. Collected fungi extensively throughout Latin America where he has also taught and lectured on mycological subjects.

Membership in professional societies include: Mycological Society of America, Botanical Society of America, Sociedad Mexicana de Micología (elected Honorary Member 1968), Association for Tropical Biology, International Association for Plant Taxonomy, Sigma Xi.

Mycological research expeditions: Panama 1950, Bolivia (1958), Perú (1958, 1969, 1972), Mexico (1962, 1963, 1970, 1972, 1973), Guatemala (1963, 1970, 1972, 1973), Costa Rica (1964), Brazil (1965-1966), Argentina (1966), Puerto Rico, Jamaica, Dominican Republic (1968), El Salvador (1971), Honduras (1973).

Member Editorial Board of Mycologia, national journal of the Mycological Society of America. 5-year term beginning 1972.

Consulting Editor of Revista Interamericana Review, published by Inter American University of Puerto Rico. Appointed 1972.

## OUTLINE OF PROJECT

Ethnomycological investigations, Interdisciplinary in nature and utilizing data from fields such as mycology, archeology, anthropology and linguistics, were initiated in Mexico and Guatemala several years ago. The use of some species of fleshy fungi (mushrooms) in sacred ceremonies among contemporary Mexican Indians (Oaxaca) has been frequently verified. The "Soma" of the Hindus, repeatedly referred to in the Rig Veda was in all probability (R. G. Wasson) the hallucinogenic mushroom Amanita muscaria and evidence recently presented by J. Allegro, Professor of Old Testament studies at the University of Manchester, sheds new light on the interpretation of Judeo-Christian beliefs in his book "The Sacred Mushroom and The Cross."

My studies (published and in press; please see attached bibliography) establish the existence among the contemporary Quiche of Guatemala and the Tzotzil of Chiapas, Mexico, of a mythology in which Amanita muscaria assumes a major role in indigenous religious beliefs having their origin in the ancient Maya civilization.

Further studies among the Kekchi, Cakchiquel, Mam, Ixil, Tzeltal and other linguistic groups in Mexico and Guatemala are necessary to trace the range and depth of this mushroomic tradition in the Americas. The collection and identification of voucher specimens throughout this area is urgently needed together with a compilation of their names in the respective native languages.

My objectives in the proposed research are the following:

1. To collect and identify voucher specimens of edible and/or toxic fungi (particularly those found to have significance in local folklore) in Guatemala and Mexico and to determine the names and uses of mushrooms species known to the local inhabitants.
2. To seek additional linguistic and folkloric information about Amanita muscaria.
3. To further amplify our knowledge of the Mayan artifacts known as mushroom stones, which are linked to a sacred mushroom cult among the Maya of past centuries.
4. To consult as may be required or as opportunities arise, with archeologists, anthropologists and linguists in Guatemala and Mexico regarding pertinent ethnomycological data.

December 17, 1973

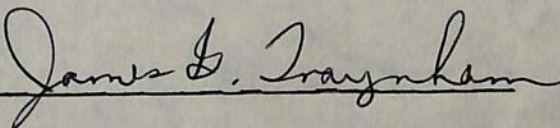
from: James G. Traynham, Vice-Chancellor  
for Advanced Studies and Research

to: Professor Bernard Lowy  
Department of Botany

The University Council on Research has approved the allocation of \$410 to support your research travel to Guatemala and Mexico to continue ethnomycological studies. We were unable to allocate all the funding you requested. The item in your proposal which we cannot support is your living expenses.

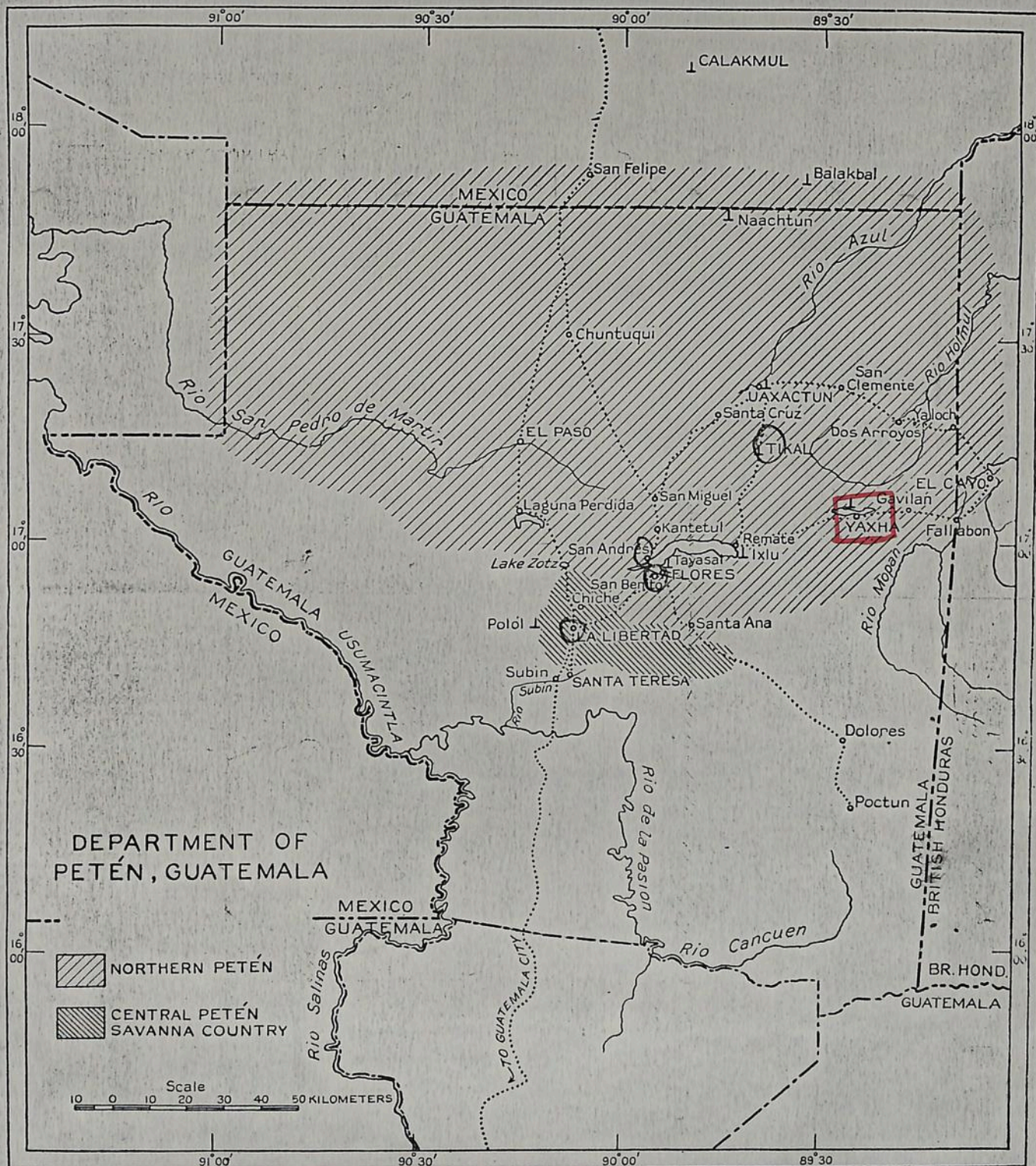
It is expected that publications resulting in part from support under this grant will indicate in a footnote credit for the Council on Research grant, and that at a suitable time a brief report will be made to the Council of the work done under the grant.

You may contact Mrs. Blanchard in this Office (telephone 2311) to make arrangements for the allocated funds. We sincerely hope that your research program will be assisted by this grant.

  
James G. Traynham

JGT:mcl

cc: Dean Irwin A. Berg  
Professor Charles A. Schexnayder



Map of the Department of Petén, Guatemala, showing phytogeographical divisions and collection localities.



## THE SOCIETY OF THE SIGMA XI

For the Encouragement of Scientific Research

LOUISIANA STATE CHAPTER  
BATON ROUGE, LOUISIANA 70803

MAY LUNCHEON MEETING

VIEUX CARRE ROOM

LSU UNION

Thursday, May 2, 1974 - 11:45 AM

Luncheon \$2.50

Speaker

Dr. Bernard Lowy  
Department of Botany

"Ethnomycology - Notes from Middle America and Elsewhere"

Dr. Bernard Lowy is a Professor of Botany and Curator, Mycological Herbarium, at LSU-BR. He received his academic degrees from Long Island University and the University of Iowa. During his research career Dr. Lowy has been a Fulbright Scholar on three different occasions at universities in South America. Also, he has been a grantee of Sigma Xi and the American Philosophical Society in his research in Central America and Mexico. Dr. Lowy has collected fungi extensively throughout Latin America, and has published some forty papers on his research. He is a member of the Editorial Board of the Journal of the Mycological Society of America, Consulting Editor of Inter American Review, and a member of six scientific professional societies associated with his research interests.

Reservations should be returned by telephone to Engineering Science (388-3397) or by mailing the form below to: Engineering Science, L.S.U., Baton Rouge, La. (70803) by 12:00 noon, Wednesday, May 1, 1974.

---

Yes, I am planning to attend the Sigma Xi Luncheon on Thursday, May 2, 1974.

Please reserve \_\_\_\_\_ places for me.

Name \_\_\_\_\_ Department \_\_\_\_\_

Return to: R. L. Thoms, Chapter Secretary, Engineering Science



Fund expenses - June 1973 (6-30)

Air transport: B.R. → NY → Quito → Tegucigalpa	\$266.64
Meal allowance - June 6-30 @ \$10.	240.00
NYC taxis - June 6-9	21.75
Quito city taxes June 9-5 (including Antigua)	16.50
Airport tax Quito	3.00
Hotel Quito (Pension Reforma) June 9-15	58.15
Hotel Antigua - June 12	11.00
Hotel Tegucigalpa - June 15-16	27.28
Tegucigalpa taxes June 15-16	6.00
Plane Tegucigalpa - S. Pedro Sula - June 15	12.81
Tegucigalpa taxi San Pedro	6.50
Green Hotel Sula - June 17	14.88
San Pedro → Copán RT by car	36.00
Hotel Marina (Copán)	7.50
Plane San Pedro → Tegucigalpa - June 22	12.81
Tegucigalpa airport → city taxi	3.00
Tegucigalpa → Zamorano RT car (Escuela Panam.) (Dr. Muller)	16.50
<u>Tegucigalpa Hotel Maya - June 22-25</u>	<u>102.75</u>
Tegucigalpa taxi to airport June 26	3.00
Plane Tegucigalpa → Quito - June 26	29.80
Pension Reforma Quito - June 26-30	47.50

[Sent LSU 28-VI-'73]  
Mrs. B. Lambert

T.	943.37
GRANT	800.00
BAL.	143.37

February 21, 1973

Dr. Max Goodrich  
Dean, Graduate School  
128 David Boyd Hall  
Louisiana State University  
Baton Rouge, Louisiana 70803

Dear Dr. Goodrich:

In the summers of 1970-71, in addition to collecting fungi in Guatemala and El Salvador, I began an ethnomycological study which is still in progress. The two reprints attached are to acquaint the Committee with the nature of my project. As the titles indicate, one of them reports a newly discovered copy of a Maya Codex from Guatemala; the other offers an interpretation of part of that Codex in which I believe a sacred mushroom is shown in the hands of a shaman (illustrated in the paper on "Mushroom symbolism...").

The work I propose to do this summer in Guatemala has the following major objectives:

- 1) to collect and identify edible and/or toxic fungi in key localities and to determine the local names and significance of the species known to the local inhabitants.  
*(wildly grown)*
- 2) to seek linguistic and folkloric information regarding the mushroom Amanita muscaria, *(which I have identified in the Guatemalan Codex)* in order to study the tradition of respect for this fungus in the Guatemalan Highlands among contemporary Indian societies *in Guatemala and Mexico*  
*to determine the reasons for*
- 3) to amplify our knowledge of the Mayan artifacts known as mushroom stones, which are linked to a sacred mushroom cult in Mayan history.

For these reasons, I respectfully request that the Council on Research grant the sum of \$1560 to cover travel and living expenses in Guatemala for a 60 day period to begin in June 1973.

The estimated cost schedule follows:

Round trip air fare Baton Rouge to Guatemala City	\$ 210.00
Living expenses (housing and meals), 60 days @\$20	1200.00
Internal travel by plane and bus	150.00
Total	<u>\$1560.00</u>

A curriculum vitae and bibliography are also attached.

Sincerely yours,

Bernard Lowy  
Professor, Department of Botany

APPROVED by Council.

INFO FROM BOB BOLDWIN, 2-16-73

from: Charles A. Schexnayder *CS*  
Chairman, Department of Botany

April 10, 1973

RECEIVED

APR 13 1973

to: President Martin D. Woodin  
156 Thomas Boyd Hall

*[Signature]*  
CHANCELLOR

thru: Cecil G. Taylor, Chancellor  
117 David Boyd Hall

LOUISIANA STATE UNIVERSITY

APR 18 1973

*CS*  
Irwin A. Berg, Dean  
College of Arts and Sciences  
260 Allen Hall

PRESIDENT'S OFFICE

We would like to request permission for Dr. Bernard Lowy, Professor in the Department of Botany, to travel to Guatemala City for continuation of an ethnomycological study, June 3, 1973 - August 10, 1973. In addition to Dr. Lowy's regular salary, he will receive travel support in the amount of \$1,560 from the University Council on Research as indicated in the attached copy of a letter from the Graduate School.

APPROVED

*Donald G. Turner*  
of Chancellor Taylor 4/17/73  
LSU Baton Rouge

APPROVED:

*M. D. Woodin*  
M. D. Woodin, President

4-18-73

4/18/73 DISTRIBUTION:

- Professor Charles A. Schexnayder
- Dean I. A. Berg
- Accounting Services
- Chancellor

April 5, 1973

from: Max Goodrich, Dean  
Graduate School *MG*

to: Professor Bernard Lowy  
Department of Botany

The University Council on Research has approved your February 21, 1973 application for research travel support in the amount of \$1,560 for research travel to Guatemala City to continue an ethnomycological study.

It is expected that publications resulting in part from support under this grant will indicate in a footnote credit for the Council on Research grant, and that at a suitable time a brief report will be made to the Council of the work done under the grant.

You will need to contact Mrs. Blanchard in the Graduate School Office to make arrangements for the funds.

MG:mcl

cc: Professor Charles A. Schexnayder  
Dean Irwin A. Berg

TO: PURCHASING OFFICE

REQ. NO. TO BE NUMBERED BY DEPARTMENT

PLEASE ORDER THE FOLLOWING AND CHARGE TO:

REQUISITION  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE, LOUISIANA 70803

DATE 5/14/73

COLLEGE Graduate School

DEPARTMENT \_\_\_\_\_

DELIVER TO: BUILDING David Boyd Hall

CARE OF Dean Max Goodrich

ROOM NO. 128

QUANTITY	ATTACH ALL WRITTEN QUOTATIONS OBTAINED. PLEASE GIVE FULL DESCRIPTION AND SPECIFICATION----PREFERABLY CATALOG NUMBER FROM CATALOG OF WIDELY KNOWN SUPPLY HOUSE. THIS WILL FACILITATE YOUR ORDER.	ESTIMATED UNIT PRICE	TOTAL ESTIMATED COST
	<p>Check to Dr. Bernard Lowy, Professor for research travel to Guatemala City to continue an ethnomycological study.</p> <p>This \$800. covers a part of a \$1560 grant to Dr. Bernard Lowy.</p> <p>Social Security # 484-32-1517</p>		<p>\$800</p>

SUGGESTED VENDORS

FIRM	ADDRESS	PRICE SOURCE WRITTEN (ATTACH), CATALOG, PREVIOUS ORDER NUMBER, TELEPHONE, ETC.	TERMS	QUOTED PRICE	F.O.B. UNIV. OR VENDOR
1					
2					
3					
4					
5					

PURPOSES FOR WHICH MATERIALS ARE TO BE USED MUST BE GIVEN--REMARKS.

Research Council grant.

UNIVERSITY POLICY: THE OFFICE OF THE DIRECTOR OF PURCHASING IS VESTED WITH THE SOLE AUTHORITY TO OBLIGATE THE UNIVERSITY FOR ALL PURCHASES, INCLUDING CONTRACTUAL SERVICES. WITHOUT DEFINITE AND PARTICULAR PERMISSION OF THE OFFICE OF THE DIRECTOR OF PURCHASING NO UNIVERSITY DEPARTMENT MAY ORDER DIRECTLY BY LETTER, TELEPHONE, TELEGRAPH OR IN ANY OTHER MANNER. NOTE: THE UNIVERSITY WILL ASSUME NO OBLIGATION EXCEPT IN A PREVIOUSLY ISSUED AND DULY AUTHORIZED PURCHASE ORDER.

IF THIS REQUEST AMOUNTS TO MORE THAN \$1,000, IT MAY BE NECESSARY TO ADVERTISE

1. APPROPRIATION OR ACCT. No. 137 30 03/320  
WITH OBJECT CLASSIFICATION CODE

4. APPROVED — IF NECESSARY \_\_\_\_\_

VICE CHANCELLOR FOR BUSINESS AFFAIRS AND COMPTROLLER

2. REQUEST PREPARED BY Marie P. Blanchard  
DEPARTMENTAL REPRESENTATIVE

5. APPROVED \_\_\_\_\_

DIRECTOR OF PURCHASING

3. REQUEST BY Max Goodrich  
HEAD OF DEPARTMENT

Digitized by the University of Michigan Botanical Documentation

FROM: Bernard Lowy, Professor  
Botany Department

CAMPUS CORRESPONDENCE  
Louisiana State University

TO: Office of the Auditor

July 2, 1973

Re: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ 760.00 representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my personal account until these funds are expended for the purpose approved, and a detailed report with proper receipts rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. Travel expenses will be submitted to the Graduate School on a University Expense Voucher. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

Cash payment of student or non-student wages is not allowable from this grant. If such funds are required, they must be transferred by the Office of the Graduate School to the departmental budget and such employees paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible. Such a request when necessary must come through the Office of the Dean of the Graduate Schools by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during the current fiscal year, and all necessary receipts and other information and any unexpended cash sent to this office by September 1, 1973. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1973, and you will then have sufficient time to make a settlement of any additional grant given to you.

I hereby agree that final settlement of this advance will be made by me on or before September 1, 1973. If settlement of this advance is not made by this date, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

484-32-1517  
Social Security Number

Bernard Lowy  
Signature

21 May 1973  
Date

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

BATON ROUGE · LOUISIANA · 70803

*College of Arts and Sciences — Agricultural Experiment Station*

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

February 12, 1971

Dr. Max Goodrich  
Council on Research  
The Graduate School

Dear Dr. Goodrich:

While I was engaged in an ethnomycological project in Guatemala in the summer of 1970, an informant called my attention to a manuscript arranged in the style of pre-Columbian codices which relate to Mayan history. Only three such distinct and genuine documents are known presently and are deposited in European libraries. Consultations with Professors Robert West, William Haag and with personnel of the Middle American Research Institute of Tulane University concerning the potential importance to scholars of this codex, has encouraged me to try to obtain detailed photographs which would allow a critical study of this document to be made. At Tulane University I was shown a codex identified as a forgery but which is nevertheless considered to be a valuable copy.

My major objective last summer was to obtain additional information on mushroom stones and I was fortunate in locating a number of these curious pre-Columbian sculptures that had previously been overlooked in Guatemala. A paper is now in press summarizing my findings. This summer, in addition to pursuing my interest in the still unidentified codex and enlarging my inquiry on mushroom stones, I hope to continue my work on the fungi of Guatemala and to extend my investigations for the first time to El Salvador. I respectfully request of the Council on Research a grant in the sum of \$1400.00 to cover travel and living expenses for the Central American research project I have outlined.

Sincerely yours,

*B. Lowy*

Bernard Lowy  
Professor of Botany



Campus Correspondence

LOUISIANA STATE UNIVERSITY

from: Max Goodrich, Dean  
Graduate School *MG*

March 11, 1971

to: Professor Bernard Lowy  
Department of Botany

The Council on Research considered your request for travel funds at its meeting on March 9. The Council felt that the proposal was somewhat vague in regard to the original research project, and decided that it had other requests which should have higher priority for its funds. The request was therefore denied.

MG:jc

*Donner for Max Goodrich - May 3, 1973, LSU Union.  
Returns Dean of Graduate School.*

June 12, 1969

To: Dr. Joseph M. Reynolds  
Vice President for Research

Dear Joe:

In response to your request for comments regarding the formation of OTS Committees to explore new substantive fields "not confined specifically to either the plant or animal species", the following suggestion may merit attention.

Since the basic aim of OTS is to promote interdisciplinary efforts, it would seem particularly appropriate to consider the study in depth of the field of ethnomycology, a relatively new discipline which utilizes information drawn from such diverse areas as mycology, anthropology, archeology and biochemistry. In a word, ethnomycology is the study of ways in which civilizations past and present, have been influenced by their contact with fungi. Such influence has often been profound, as in the case of the recently discovered mushroom cult among the Mazatec Indians of Mexico. Further work in this area is essential not only in Mexico but throughout Middle America. Guatemala (where OTS has a new center) should prove to be a highly productive region for study, since most of the artifacts known as mushroom stones (objects believed to have been intimately associated with Mayan religious ceremonies) have been discovered there.

When I was carrying out my research on Guatemalan fungi a few years ago, (results of which are incorporated in a monograph of neotropical fungi to be published shortly by the New York Botanical Garden) I made some preliminary ethnomycological inquiries and recently summarized my findings in the accompanying reprint which I enclose for your personal file. It describes a new mushroom stone from Guatemala.

I plan to continue my ethnomycological exploration in Mexico within the next two weeks, giving special attention to the province of Veracruz, home of the Mazatec Indians where the hallucinogenic mushrooms occur and where they are currently used in religious ceremonies. With the collaboration of colleagues at the University of Mexico, I expect to collect extensively in that region.

Should you like to have further information regarding this proposal, I'll be glad to try to answer any questions you may have. I plan to leave for Mexico on or about June 28.

Cordially yours,

B. Lowy

VICE PRESIDENT FOR  
INSTRUCTION AND RESEARCH



Date 6/10/69

To Drs. Haag, Ibañez, Lowery, Lowy, L. D. Newsom,  
and Swartzwelder

Please let me have your comments and/or  
suggestions as soon as possible and no later  
than June 23.

Many thanks,

*W for J.M.R.*  
J. M. Reynolds

- For your disposition
- For your information
- For your recommendation
- For your files

6-IV-1970.

OTS Committee met with  
Joe Reynolds 1:30 - 3:05 PM to  
discuss LSU involvement. Meeting  
largely centered about my suggestions  
for pursuing Ethnopsychology. Joe  
suggested I submit a proposal thru  
OTS → NSF, which has no strings

attraction for me. George Lowrey also  
present + Wheeler (Joe's Ass't) and  
man from forestry

W 9 June 69

# ORGANIZATION FOR TROPICAL STUDIES, INC.

## MEMBER INSTITUTIONS:

CALIFORNIA • U.C.L.A. • CHICAGO • CONNECTICUT • CORNELL • COSTA RICA • DUKE • FLORIDA • GEORGIA • HARVARD • HAWAII • INDIANA • INSTITUTO INTERAMERICANO DE CIENCIAS AGRICOLAS • KANSAS • LOUISIANA STATE • MIAMI • MICHIGAN • MICHIGAN STATE • NORTH CAROLINA • SMITHSONIAN INSTITUTION • SOUTHERN CALIFORNIA • TEXAS A & M • TEXAS TECH • WASHINGTON • WISCONSIN

North American Office  
P. O. Box 8092  
University of Miami  
Coral Gables, Florida 33124 U.S.A.  
Phone 305-284-3140



Central American Office  
Apartado 16  
Universidad de Costa Rica  
Costa Rica, C.A.  
Teléfono 25 22 18

June 4, 1969

MEMORANDUM TO: Institutional Representatives, OTS

FROM: Executive Director, OTS

SUBJECTS: 1) Formation of Planning Committee in Anthropology  
2) Formation of a Sub-Committee in Tropical Physiology

During the last two meetings of the Executive Committee in March and May of this year, discussions have been carried forward relative to the establishment of three new planning committees to be added to the seven which are now in existence. The new groupings would cover Anthropology, Tropical Physiology, and Human Ecology. At the present time, it is planned to move ahead with wider discussions on the first two disciplines, but to delay a meeting for Human Ecology until an acceptable working definition of this subject can be agreed upon.

In the formation of some of the earlier planning committees, it was considered helpful to enlist the aid of the institutional representatives in exploring the existing interests on their own campuses with respect to a new substantive field. Depending upon the degree of interest which was found, nominations were made by each institution of one or more representatives to participate in a general meeting with colleagues from other campuses to determine if it would be beneficial to create a formal Planning Committee under the OTS pattern of organization. As you know, such Planning Committees usually consist of six members appointed for staggered three-year terms. Eventually, there would also be established a substantial number of consultants working under the new Planning Committees in a supporting role.

In this first general meeting for discussion purposes, there would be no limit on the number of participants. However, since dependence would be placed upon the member institutions to support travel costs, for their own representatives, we assume that there would be a limited number of nominations. Once the appropriate names have been submitted to the Executive Committee, there will be an attempt to formulate a temporary organizational structure to develop the plans, agenda, etc. for the first meeting.

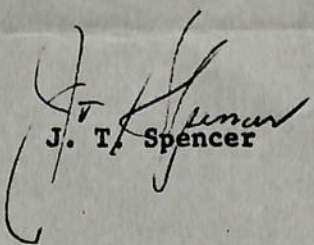
The establishment of the Anthropology Planning Committee will be the first move by OTS in the direction of a Social Sciences program (unless the

existing Geography Committee is considered under this category). We consider this development to be an extremely important step in the growth of OTS activities. It will come at a most opportune moment as we make final plans for the initiation of the new center in Guatemala at Finca El Salto. This is not to imply that the new program would be limited to this geographic area, but Guatemala definitely would offer excellent opportunities for training and research in such areas as archaeology. Our long-range plans also call for the development of a center in the northern part of South America which will afford additional opportunities for expanded training and research in the Social Sciences.

For the time being, it is planned to organize Tropical Physiology as a Planning Sub-Committee under the Terrestrial Biology Committee. After at least two years of initial experience with this relationship, the situation will be reviewed to determine whether Tropical Physiology should be established as a full-fledged group separated from the parent Terrestrial Biology Committee. In making nominations for a general meeting at this time, please keep in mind that the new sub-committee will not be confined specifically to either the plant or animal sciences, but rather will cover a very broad spectrum in the life sciences. Such an approach will be in line with basic OTS policy to promote an interdisciplinary effort in all the various subjects in which it has operating programs.

We strongly urge each member in the OTS consortium to send representatives to each of these suggested general meetings for Anthropology and Tropical Physiology. Your nominations for individuals to attend such meetings should be submitted if at all possible to the North American Office in Miami by the middle of July. The Executive Committee will then be able to consider in more detail the time, place, and agenda for such a proposed session.

Your assistance in exploring the situation on each of your campuses will be greatly appreciated.

  
J. T. Spencer

JTS/lb

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE  
BATON ROUGE · LOUISIANA · 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

March 18, 1969

Dr. Richard D. Anderson  
The Graduate School

Dear Dr. Anderson:

A few years ago, when I was carrying out my researches on Guatemalan fungi - the results of which will constitute part of a monograph on neotropical flora to be published this year by the New York Botanical Garden - I became interested in the problem of hallucinogenic mushrooms and made some preliminary inquiries relating to ethnomycology, a study of the ways in which various fungi have influenced human societies. The accompanying reprint from a recent Bulletin of the Mycological Society of Mexico summarizes my findings, including a description of a mushroom stone (presumed to have been used by the indigenous population of Guatemala in their religious ceremonies) previously unrecorded.

Ethnomycological information throughout Middle America is scarce, but the field is beginning to attract the attention not only of mycologists but of psychologists, anthropologists and chemists, because of the growing interest in hallucinogenic drugs.

This summer I plan to continue my investigations in Mexico, particularly in the region of Oaxaca, home of the Mazatec Indians where the hallucinogenic mushrooms occur and where they are currently used in religious rites known to be practised among them. I would expect to collect extensively in that area and in the surrounding southern provinces of Mexico in order to gather as much pertinent information as possible on the kinds of fungi involved and the manner of their use. My knowledge of Spanish (the language in which I lectured during my tenure as a Fulbright scholar both to Peru and Brazil) will again be useful to me.

I respectfully request that a Summer Research Faculty Fellowship be made available to allow me to pursue these objectives.

Sincerely yours,  
*B. Lowy*  
Bernard Lowy  
Professor of Botany

[ Summer Research Fellowships only  
for faculty on 9 months. ]

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE  
BATON ROUGE · LOUISIANA · 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

May 5, 1969

Dr. Richard D. Anderson  
The Graduate School

Dear Dr. Anderson:

In accordance with your suggestion, I am submitting the following itemized list of approximate expenses for a 2-month period of research in Mexico, with the understanding that should the present study require additional work in that country at some future time, I shall seek other sources of support for this project.

I respectfully request the Council's consideration for the support of this summer's project.

1 - Minimum living expenses (housing & meals) for 60 days @ \$10.00	....\$600.00
2 - RT air fare Baton Rouge - Mexico City	.....141.00
3 - Travel expenses within Mexico (via air, bus, etc.)	.....100.00
	<u>Total . \$841.00</u>

Sincerely yours,  
*B. Lowy*  
Bernard Lowy  
Professor of Botany

May 5, 1969

Dr. Richard D. Anderson  
The Graduate School

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Sincerely yours,

Bernard Lowy  
Professor of Botany

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

SHEET NO.

Travel Expense Voucher

Submit in triplicate within 10 days of completed trip

Date October 6, 1969

Payee Dr. Bernard Lowy

Position Professor

Department Botany

Address 117 Stubbs

DATE →	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Breakfast (Include Tip)	\$	\$	\$	\$	\$	\$	\$	
Lunch (Include Tip)								
Dinner (Include Tip)								
Total Meals	\$ 3 meals/day: 50 days (July - Aug. 20, 1969) @ \$8.00							\$ 400.00
Lodging	50 days (as above) @ \$10.00/day							500.00
Porter Tips								
Limousine, Taxi or Bus								
Plane, (1) Train or Bus	RT Baton Rouge - Mexico City							141.00
Automobile (2) 9c Per Mile								
Car Storage								
Ferry and Tolls								
Honorarium								
Registration Fees								
*Miscellaneous								
TOTALS →	\$	\$	\$	\$	\$	\$	\$	TOTAL THIS SHEET \$ 1041.00

\* EXPLAIN ITEMS MARKED WITH (\*) AND ANY UNUSUAL ITEMS.

TOTAL ALL SHEETS

LESS ADVANCE

\$841.00

(1) If First Class Plane Fare — Explain Why:

Due Traveler None

(2) Automobile travel from \_\_\_\_\_ city \_\_\_\_\_ to \_\_\_\_\_ city \_\_\_\_\_ miles.

Due LSU None

Above Amount Received By:

DESTINATION AND PURPOSE OF TRIP:

Travel to various locations in Mexico for botanical research

I CERTIFY THE ABOVE EXPENSES WERE INCURRED FOR UNIVERSITY BUSINESS:

ATTACH RECEIPTED  
Bills for Lodging,  
Transportation Ticket  
Stubs, and All Other  
Receipts Possible.

TRAVELER'S SIGNATURE

DATE

Budget Account Number

Audited:

Voucher Number

Approved: \_\_\_\_\_  
Head of Department

Approved: \_\_\_\_\_  
Dean or Administrative Head

Digitized by the Hunt Institute for Botanical Documentation

from: R. D. Anderson, Acting Dean  
Graduate School

RDA

May 12, 1969

to: Dr. Bernard Lowy  
Professor of Botany

The University Council on Research has approved your application for travel grant-in-aid, as shown by the following excerpt from the minutes of its last meeting, May 8, 1969:

Requested travel funds for two-month period this summer to do research in Mexico. Research project is influence of hallucinogenic mushrooms on human societies. \$841.00

It is expected that publications resulting in part from support under this grant will indicate in a footnote credit for the Council-on-Research grant and that at a suitable time a brief report will be made to the Council of the work done under the grant.

You will need to come to the Graduate School Office to make arrangements for the funds. Any questions you may have about the grant may be settled at that time.

AGREEMENT REQUIRED OF COUNCIL-ON-RESEARCH GRANTEEES

It is hereby agreed that I will remain in the employ of Louisiana State University for a minimum of one semester after the period covered by my grant-in-aid from the University Council on Research. Failure to do this obligates me to reimburse the University for the funds I have used under the Grant.

Grantee's signature

B. Lowy

Social Security Number

cc: Dr. Chilton  
Chancellor Taylor  
President Hunter  
Dean Berg

FROM: Bernard Lowy, Professor  
Botany Department

CAMPUS CORRESPONDENCE  
Louisiana State University

TO: Office of the Auditor

Date: May 15, 1969

Re: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ 841.00 representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my personal account until these funds are expended for the purpose approved, and a detailed report with proper receipts rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. Travel expenses will be submitted to the Graduate School on a University Expense Voucher. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

Cash payment of student or non-student wages is not allowable from this grant. If such funds are required, they must be transferred by the Office of the Graduate School to the departmental budget and such employees paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible. Such a request when necessary must come through the Office of the Dean of the Graduate Schools by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during the current fiscal year, and all necessary receipts and other information and any unexpended cash sent to this office by June 30, 1969. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1969, and you will then have sufficient time to make a settlement of any additional grant given to you.

---

I hereby agree that final settlement of this advance will be made by me on or before June 30, 1969. If settlement of this advance is not made by this date, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

\_\_\_\_\_  
Social Security Number

B. Lowy  
Signed

5/15/69  
Date

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

BATON ROUGE · LOUISIANA · 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

January 29, 1968

Dr. Max Goodrich, Chairman  
Council on Research  
The Graduate School

Dear Dr. Goodrich:

My study on neotropical fungi has been materially advanced as a result of the travel grant approved in my favor by the Council on Research last July. In my letter of request for support dated May 22, 1967, I mentioned that a monograph on certain neotropical fungi was in progress and this work is now approximately half completed. The principal aim of the project is to make available to scholars and students a compendium of the tremellaceous fungi of Latin America. It will include keys to the identification of all groups, illustrations, descriptions and critical comments as well as a brief historical introduction and suggestions for the revision and new interpretation of the taxonomic position of these fungi, based on my previous studies and those currently under way.

At the several herbaria noted in my May 22 letter, I examined many specimens from areas of Latin America that I have not had occasion to visit, including Colombia, Venezuela and Ecuador. Much additional material from these countries was also sent to me for study from the herbaria of the University of Iowa, Harvard University, the New York Botanical Garden and the National Fungus Collections, Beltsville, Md.

Now I wish to complete another necessary part of this project by collecting and studying specimens from the Caribbean Islands, including mainly Puerto Rico, the Dominican Republic, Haiti and Jamaica during the summer of 1968. I respectfully request of the Council a grant in the sum of \$1600.00 to cover travel and living expenses for the purposes here outlined.

Sincerely yours,

*B. Lowy*  
Bernard Lowy  
Professor of Botany

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

BATON ROUGE • LOUISIANA • 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

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Sincerely yours,

*B. Lowy*

Bernard Lowy  
Professor of Botany

from: Max Goodrich, Dean  
The Graduate School

April 16, 1968

to: Dr. Bernard Lowy, Professor  
Botany and Plant Pathology

Dear Dr. Lowy:

The University Council on Research has approved your application for travel grant-in-aid, as shown by the following excerpt from the minutes of its last meeting:

For research travel to the Caribbean Islands to collect and study specimens for his study on neotropical fungi, with the suggestion that he seek other support for future research on this project. \$1,600.

AGREEMENT REQUIRED OF COUNCIL ON RESEARCH GRANTEES

It is hereby agreed that I will remain in the employ of Louisiana State University for a minimum of one semester after the period covered by my grant-in-aid from the University Council on Research. Failure to do this obligates me to reimburse the University for the funds I have used under the Grant.

Grantee's signature \_\_\_\_\_

It is expected that publications resulting in part from support under this grant will indicate in a footnote credit for the Council-on-Research grant and that at a suitable time a brief report will be made to the Council of the work done under the grant.

You will need to come to the Office of the Graduate School to make arrangements for the funds which will be available after July 1, 1968.

MG:mp

cc: President John A. Hunter.  
Chancellor Cecil G. Taylor.  
Dean Irwin A. Berg.  
Dr. S. J. P. Chilton.

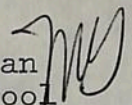
APPROVED:

APPROVED:

Cecil G. Taylor, Chancellor

John A. Hunter, President

from: Max Goodrich, Dean  
The Graduate School



April 16, 1968

to: Dr. Bernard Lowy, Professor  
Botany and Plant Pathology

Dear Dr. Lowy:

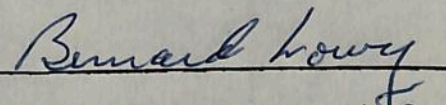
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Grantee's signature



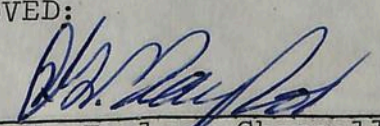
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MG:mp

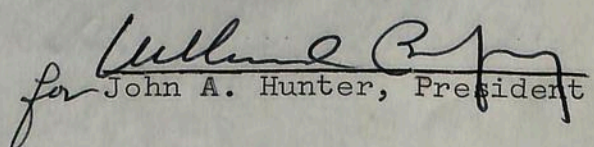
cc: President John A. Hunter.  
Chancellor Cecil G. Taylor.  
Dean Irwin A. Berg.  
Dr. S. J. P. Chilton.

APPROVED:



Cecil G. Taylor, Chancellor

APPROVED:



for John A. Hunter, President

*Campus Correspondence*

LOUISIANA STATE UNIVERSITY

from: Max Goodrich, Dean  
The Graduate School

April 16, 1968

to: Dr. Bernard Lowy, Professor  
Botany and Plant Pathology

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Grantee's signature

Bernard Lowy

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MG:mp

cc: President John A. Hunter.  
Chancellor Cecil G. Taylor.  
Dean Irwin A. Berg.  
Dr. S. J. P. Chilton.

APPROVED:

Cecil G. Taylor, Chancellor

APPROVED:

John A. Hunter, President

from: Marie Pizzolato BLANCHARD

to: Dr. Bernard Lowy

July 11, 1968

Received your wire. Have deposited your money into your account since July 2, 1968. Am checking with the bank to determine why the money was not sent to you. They are looking up your instructions now.

Mr. Hernandez of the City National Bank advised me that he had air-mailed the money to your bank there on July 3.

Please advise us if the money is not received in due time. I imagine the delay was due to the long Holiday for the Fourth of July.

I hope you are having an enjoyable trip.

Sincerely,

*Marie*

I. Transportation

<u>By Air</u> {	A. N.O. ----- San Juan, Puerto Rico (RT).....	\$215.40
	B. San Juan, Puerto Rico ----- Kingston, Jamaica	133.00
	C. San Juan, Puerto Rico ----- Mayaguez, Puerto Rico (RT)	16.00
		<u>364.40</u>
<u>By Car</u> {	D. Puerto Rico (July 1 - 9) .....	92.61
	E. Jamaica (July 13 - 23)	93.21
	F. Dominican Republic (July 24 - 31)	76.02
		<u>261.84</u>

II. Housing

A. Puerto Rico (June 11 - July 13) .....	419.98
B. Jamaica (July 13-14) .....	28.00
" (July 15-16 & 21-22) .....	36.65
" (July 19-20) .....	16.60
C. Dominican Republic (July 23-24) .....	22.05
(July 25-26) .....	17.55
(July 27) .....	10.05
(July 28-31) .....	35.20
	<u>586.08</u>

III. Meals

50 days @ \$8.00 ..... 400.00

IV. Miscellaneous

Film & film processing (part) .....	20.60
	7.62
	7.21
	28.29
	19.75
	9.11
	<u>92.58</u>

Total: \$1704.90

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

SHEET NO.  
one

Travel Expense Voucher

Submit in triplicate within 10 days of completed trip

Date September 20, 1968

Payee Dr. Bernard Lowy

Position Professor

Department Botany

Address 117 Stubbs Hall, LSU

DATE →	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Breakfast (Include Tip)	\$	\$	\$	\$	\$	\$	\$	
Lunch (Include Tip)								
Dinner (Include Tip)								
Total Meals	\$	3 meals per day	\$	50 days	\$	@ \$8.00/day	\$	\$ 400.00
Lodging		6/11/68-7/13-68: \$49.98		7/13/68-7/14/68: \$28.00		7/15/68-7/16/68;		
Porter Tips		7/21/68-7/22/68: \$36.65		7/19/68-7/20/68: \$16.60		7/23/68-7/24/68:		
Limousine, Taxi or Bus		\$22.05		7/25/68-7/26/68: \$17.55		7/27/68: \$10.05		7/28/68-7/31/68:
Plane, (1) Train or Bus		\$35.20,						586.08
Automobile (2) 9c Per Mile								
Car Storage								Plane tickets: B.R. - San Juan, Puerto Rico (RT): \$215.40
Ferry and Tolls								San Juan, P.R. - Mayaguez, P.R.: \$16.00
Honorarium								San Juan, P.R. - Kingston, Jamaica (inc. Dominican Republic): \$133.00
Registration Fees								364.40
*Miscellaneous								Film & film processing: \$92.58
TOTALS →	\$	\$	\$	\$	\$	\$	\$	TOTAL THIS SHEET \$ 1704.90

\* EXPLAIN ITEMS MARKED WITH (\*) AND ANY UNUSUAL ITEMS.

\* Rented cars: Puerto Rico: \$92.61  
Jamaica: 93.21  
Dom. Rep: 76.02  
\$261.84

TOTAL ALL SHEETS \$1704.90  
LESS ADVANCE \$1600.00

(1) If First Class Plane Fare — Explain Why: \_\_\_\_\_

(2) Automobile travel from \_\_\_\_\_ city to \_\_\_\_\_ city \_\_\_\_\_ miles.

DESTINATION AND PURPOSE OF TRIP:  
Various locations as noted above to collect and study neotropical fungi.

Due Traveler \$104.90p  
Due LSU  
Above Amount Received By: \_\_\_\_\_

I CERTIFY THE ABOVE EXPENSES WERE INCURRED FOR UNIVERSITY BUSINESS: \_\_\_\_\_

ATTACH RECEIPTED Bills for Lodging, Transportation Ticket Stubs, and All Other Receipts Possible.

TRAVELER'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ Budget Account Number \_\_\_\_\_

Approved: \_\_\_\_\_ Head of Department

Approved: \_\_\_\_\_ Dean or Administrative Head

Audited: \_\_\_\_\_ Voucher Number \_\_\_\_\_

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE  
BATON ROUGE · LOUISIANA · 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

October 7, 1968

To: Dean Irwin A. Berg, College of Arts and Sciences

In accordance with your memorandum of September 13, 1968, relating to research support for the College of Arts and Sciences Faculty, I respectfully request assistance as indicated below for the research project currently in progress:

1. Statement of Project

A taxonomic study of fungi collected over a period of years throughout the neotropical region (Mexico, Central and South America and the West Indies) is nearing completion. The project involves, in part, the microscopic examination of large numbers of specimens, their identification and classification and their organization into a comprehensive taxonomic system. In addition to technical descriptions, keys to the identification of species and pertinent discussions, the work will include illustrations of three kinds: 1) Line drawings of microscopic structures 2) Distributional mapping of genera and species 3) Photographs of specimens.

2. Present Status of Project

The work as a whole is approximately 75% completed, different phases being advanced to a greater or lesser degree. It is anticipated that within 6 months the project should be terminated if the assistance requested is granted.

3. Request for Assistance

The major need is for a qualified person to assist with necessary cartographic and related work. The estimated cost of this help will be \$1250.00

Approved: \_\_\_\_\_

S.J.P. Chilton  
Head, Dep't. Botany  
& Plant Pathology

B. Lowy  
Bernard Lowy  
Professor of Botany

*Campus Correspondence*

LOUISIANA STATE UNIVERSITY

*IAB*

from: Irwin A. Berg, Dean  
College of Arts and Sciences

to: Professor Bernard Lowy  
Department of Botany

October 11, 1968

It is with pleasure that I inform you that your request for support of your research on fungi has been approved. A sum not to exceed \$1,250.00 will be made available to you for employing a person to complete cartographic work necessary for your research. It is important to note that University regulations must be followed closely -- i.e. full-time classified employees of LSU may not be used and the LSU purchasing regulations must be observed. Please get in touch with Mrs. Rita Garon and she will provide the information and prepare the purchase form when you are ready.

IAB:rg

cc: Professor St. John Chilton

*Campus Correspondence*

LOUISIANA STATE UNIVERSITY

*IAB* from: Irwin A. Berg, Dean  
College of Arts and Sciences

to: Professor Bernard Lowy  
Department of Botany

October 11, 1968

It is with pleasure that I inform you that your request for support of your research on fungi has been approved. A sum not to exceed \$1,250.00 will be made available to you for employing a person to complete cartographic work necessary for your research. It is important to note that University regulations must be followed closely -- i.e. full-time classified employees of LSU may not be used and the LSU purchasing regulations must be observed. Please get in touch with Mrs. Rita Garon and she will provide the information and prepare the purchase form when you are ready.

IAB:rg

cc: Professor St. John Chilton

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

SHEET NO.  
1 of 1

Travel Expense Voucher

Submit in triplicate within 10 days of completed trip

Date 2/5/68

Payee Dr. Bernard Lowy  
Department Botany

Position Professor  
Address 117 Stubbs Hall  
L. S. U.

DATE →	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Breakfast (Include Tip)	\$	\$	\$	\$	\$	\$	\$	
Lunch (Include Tip)								
Dinner (Include Tip)								
Total Meals	\$	3 Meals per day	- 17 days -	\$	\$	\$	\$	136.00 TOTALS
Lodging	9/1/67-9/4/67	- \$37.72	8/31/67-	\$15.45	- 1/21-24/68-	\$45.00		166.56
Porter Tips	10/16/67-10/19/67	-24.72-	1/17/68-1/20/68-	\$43.67				
Limousine, Taxi or Bus	Taxis to and from hotel to airports and return.							37.00
Plane, (1) Train or Bus			142.80	134.15	138.70			415.65
Automobile (2) Per Mile	Auto rental - Sept. 1967 - Iowa City, Iowa							37.67
Car Storage								
Misc Ferry and Tolls	Photo supplies-film, bulbs, and processing.							35.00
Honorarium	(SEE ATTACHED - PRINTS)							22.05
Registration Fees								
*Miscellaneous								
TOTALS →	\$	\$	\$	\$	\$	\$	\$	TOTAL THIS SHEET \$ <del>850.38</del> 852.93

\* EXPLAIN ITEMS MARKED WITH (\*) AND ANY UNUSUAL ITEMS.  
Plane tickets - \$142.80 -RT New Orleans, La. to Iowa City, Iowa;  
\$134.15 -RT New Orleans, La. to Washington, D.C.-\$138.70 -Baton Rouge-  
Boston-New York City.  
TOTAL ALL SHEETS \$ ~~850.38~~  
LESS ADVANCE \$ ~~850.00~~

(1) If First Class Plane Fare — Explain Why: \_\_\_\_\_  
(2) Automobile travel from \_\_\_\_\_ city to \_\_\_\_\_ city \_\_\_\_\_ miles.  
DESTINATION AND PURPOSE OF TRIP: Various locations and noted above in connection with his study of tremellaceous fungi of Nectropical America.

I CERTIFY THE ABOVE EXPENSES WERE INCURRED FOR UNIVERSITY BUSINESS:  
Bernard Lowy DATE \_\_\_\_\_  
ATTACH RECEIPTED Bills for Lodging, Transportation Ticket Stubs, and All Other Receipts Possible.  
137-30-03/300 Budget Account Number

TRAVELER'S SIGNATURE \_\_\_\_\_ Audited: \_\_\_\_\_ Voucher Number \_\_\_\_\_  
Approved: \_\_\_\_\_ Head of Department  
Approved: \_\_\_\_\_ Dean or Administrative Head

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE

BATON ROUGE · LOUISIANA · 70803

College of Arts and Sciences — Agricultural Experiment Station

DEPARTMENT OF BOTANY AND PLANT PATHOLOGY

DEPARTMENT OF PLANT PATHOLOGY

May 22, 1967

Dr. Max Goodrich  
Council on Research  
David Boyd Hall

Dear Dr. Goodrich:

For the past several years, my research interests in the tremellaceous fungi of Neotropical America have taken me to various countries in order to collect and study the still incompletely known mycological flora of that vast region. I have been fortunate enough to receive support for these studies in the past from a number of sources, including the Council on Research, the Fulbright Commission, the American Philosophical Society, the Society of the Sigma Xi and the National Science Foundation.

Some results of the work done on these projects are reflected in the accompanying list of new species of fungi from Neotropical America which I have already described in appropriate journals, as cited. The geographical range of many species has also been considerably extended. My goal is to describe as completely as possible all the species of tremellaceous fungi known to occur in tropical America. Although many gaps remain to be filled, notably in Colombia, Venezuela, Ecuador and Chile, I have made a modest start and believe that I now have on hand sufficient data to begin the organization of a monographic work, the preliminary stages of which are presently under way.

Unfortunately, I was unable until a short time ago, to make definite plans for the summer of 1967, but I shall now have the summer to devote entirely to the advancement of this project. I hope to use my time mainly in two ways. 1) The examination of pertinent specimens in the following herbaria, to provide needed supplementary information on tropical species. 2) Microscopic work and writing at the University.

Visits are planned to the following herbaria.

- 1) University of Iowa Mycological Herbarium, Iowa City, Iowa.
- 2) The National Fungus Collections, Beltsville, Md.
- 3) The Farlow Herbarium, Harvard University, Cambridge, Mass.

I respectfully solicit the Council's support of this project and request the sum of \$850.00 to defray the cost of necessary travel and living expenses.

Sincerely yours,  
*B. Lowy*  
Bernard Lowy  
Professor of Botany

*Dean Berni Sliger told me this had been approved.*

from: Max Goodrich, Dean  
Graduate School

*MG*

to: Professor Bernard Lowy  
Dept. of Botany & Plant Pathology  
117 Stubbs Hall

July 20, 1967

The University Council on Research has approved your application for a travel grant-in-aid as shown by the following excerpt from the minutes of its last meeting:

For travel (Summer 1967) to several herbaria in connection with his study of tremellaceous fungi of Neotropical America.

\$ 850.

The funds are now available. You will need to come to the Graduate School Office to arrange to receive the funds.

It is expected that publications resulting in part from support under this grant will indicate in a footnote credit for the Council-on-Research grant and that at a suitable time a brief report will be made to the Council of the work done under the grant.

If you have any questions about the grant, please feel free to ask by telephone or by calling in person at the Office of the Graduate School.

MG:mp

*Dr. Lowy -  
This memo is in a way inappropriate  
since you have already received the funds;  
but it makes a record of the notification.*

*MG*

CAMPUS CORRESPONDENCE

Louisiana State University

FROM: Bernard Lowy, Professor  
Botany Dept.

TO : Office of the Auditor

Date: July 17, 1967

RE: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ 850.00 representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my personal account until these funds are expended for the purpose approved, and a detailed report with proper receipts rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. In no case will meals be shown in a lump sum. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

Cash payment of student or non-student wages is not allowable from this grant. If such funds are required, they must be transferred by the Office of the Graduate Schools to the departmental budget and such employees paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible. Such a request when necessary must come through the Office of the Dean of the Graduate Schools by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during the current fiscal year, and all necessary receipts and other information and any unexpended cash sent to this office by June 30, 1968. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1968, and you will then have sufficient time to make a settlement of any additional grant given to you.

Jan.

I hereby agree that final settlement of this advance will be made by me on or before June 30, 1968. If settlement of this advance is not made by this date, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

Signed \_\_\_\_\_

Soc. Sec. #484-32-1517

Botany  
Department

26-1-68

Council on Research Grant 1967-68 (\$850.00)

Summary of Expenditures

I. Transportation

RT New Orleans - Iowa City, Iowa . . . . .	\$142.80 ①
RT New Orleans - Washington . . . . .	134.15 ②
RT Baton Rouge - Boston - New York City . . . . .	138.70 ③
	ST \$415.65
Avis car in Iowa City . . . . .	37.67 ④
RT Friendship Airport Wash. - Beltsville, Md. . . . .	16.00
RT Boston - Cambridge . . . . .	10.00
RT Home - Baton Rouge (Ryan) Airport . . . . .	9.50
RT Kennedy Airport - New York City . . . . .	5.00
	ST \$493.82

II. Living Expenses

O'Hare Inn, Chicago . . . . .	15.45 ④
Iowa Union, Iowa City . . . . .	37.72 ⑤
Beltsville, Md. (Del Haven White House Motel) . . . . .	24.72 ⑥
Holiday Inn, Cambridge, Mass. . . . .	43.67 ⑦
New York City . . . . .	15.00
	ST \$660.38
Meals 4 days Iowa City . . . . .	40.00
Meals 4 days Beltsville . . . . .	50.00
Meals 4 days New York City . . . . .	60.00
	ST \$310.38
Gratuities . . . . .	15.00
	ST \$825.38

III. Photo Supplies

Ektachrome film, flashbulbs & film processing . . . . .	35.00 ⑧
	Total \$860.38

B. Harvey

Budget # 137-30-03/300

advance 850.00  
 this expense 860.00  
 no money - to be paid either way (Grant)

SOME NEW FUNGI AND OTHERS INFREQUENTLY COLLECTED  
IN AMAZONAS

Bernard Lowy  
Louisiana State University, Baton Rouge.

Mycological knowledge of Amazonas is at present fragmentary and since the days of Spruce over 100 years ago, relatively few collections have found their way into organized herbaria. An attempt was made by the writer to collect systematically in a few chosen areas in order to obtain further information on the distribution of various fungus groups.

The principal regions visited during a period of approximately 50 days include the following: the municipality of Manaus, Reserva Adolfo Ducke, the primary forest in the vicinity of Cidade Visconde de Mauá (especially between km 182 and 200), on the road to Itacoatiara), the island opposite Manaus Harbor, Manacapuru and vicinity on the Solimões, the primary forest at Tapurucuara on Alto Rio Negro and a few localities in the neighboring State of Pará in the vicinity of Santarém, along the road to Belterra.

Generally speaking, climatic conditions were not optimum for fungi during the period spent in the field, at intervals between October 13 and December 2, 1965, since precipitation was less than normal for this time of year. Nevertheless, about 800 collections were made in the localities designated. Only a few brief comments will be made now concerning the principal groups of fungi collected because the bulk of the work of identification remains to be done.

Few Myxomycetes were collected and those observed are chiefly of cosmopolitan distribution, including: Ceratiomyxa fruticulosa, Lycogala epidendrum, Arcyria cinerea, Hemitrichia serpula and Stemonitis splendens. What is tentatively identified as Ceratiomyxa morchella is recorded for the first time from Amazonas.

Among the larger Ascomycetes, Camillea spp. Kretzschmaria spp., Nummularia spp., Thamnomycetes spp. and Xylaria spp. were common throughout most of the region. Some minute, still unidentified Discomycetes may merit special attention. Among the larger polypores (representing the most frequently encountered group of fungi), the genera Daedalea, Coriolus, Ganoderma, Poria and Pycnoporus as well as Polyporus were among the most commonly found. Daedalea sprucei, although to be expected in Amazonas is of interest because it has been infrequently collected. Gelatinous resupinates and other Tremellales were fewer than had been anticipated because of the paucity of rainfall during the collecting period. Among the larger species found were: Auricularia delicata, A. fuscosuccinea, A. polytricha, Calocera cornea, Dacryopinax elegans and D. spathularia. Several collections of Dacrymycetaceae currently under study appear to be of special interest as well as some gelatinous resupinates of the Bourdotia-Sebacina complex. Some of the Clavariaceae, Hydnaceae and Thelephoraceae collected may also reveal novelties among them.

It seems likely that many of the fungi collected represent an extension of the geographical range for the species but a more detailed statement must await the results of microscopic work now in progress.

## BOTÂNICA

METHODS AND RESULTS OF THE MYCOLOGICAL INVESTIGATIONS  
OF TROPICAL SOUTH AMERICARolf Singer  
Universidad de Buenos Aires. B.Aires.

The History of mycological exploration in the South American tropics shows that until a relatively short time ago, the collecting and distributing of fungi has been a hap-hazard undertaking. The collecting has been done by very few mycologists (Rick, Sydow, Weir, Torrend, and a few others) without either exhausting the mycoflora of a single territory nor covering any larger area like the Amazonas region. The rest of the material has been gathered by phanerogamists or general collectors who did not gather any material that was not showy or easy to prepare, and the gathering very often coincided with the periods least opportune for fungus fructification.

Only recent work has given better results, either because it was organized intelligently by specialists or, increasingly, by local mycologists.

This way a more exhaustive study during the periods of maximal fruiting has become possible. Certain groups of fungi have been studied sufficiently to obtain an overall impression of the character of the American tropical mycoflora, at least as reflected by certain families or genera, as compared with the South temperate, the north temperate and the palaeotropical mycoflora. These groups are: Rusts, polypores, certain groups of agarics and boletes, the stipitate Stereums, many groups of typical soil fungi, certain groups of Pyrenomycetes, Clavariaceae, certain genera of Discomycetes.

This was possible on the basis of a climatological study of the Neotropics presented in a map, year-round collecting, and systematical exploration of the soil mycoflora. It was possible because of the creation of permanent tropical South American mycological centers (São Paulo, Recife, Tucuman, Trinidad) and

centers with special interest in this flora (Buenos Aires, Washington, New York, Kew) with special organizations interested in the exploration of the South American or neotropical fungus flora (especially O.F.N.). In this way it has become possible to plan exploration and distribute the material among the leading specialists of each group.

Results: Aside from important contributions resulting from the distribution of well collected and annotated material, the author has been able, thanks to the collaboration of such organizations as the National Science Foundation, the Conselho de Pesquisas, the Consejo Nacional, and others, to provide certain monographic treatments in a series of monographs on South American Basidiomycetes and is now beginning to contribute to Flora Neotropica. These monographs have made it possible to compare the neotropical flora with other areas, to obtain a clearer picture of the systematics of some principally tropical genera such as Marasmius, and have likewise contributed toward a better understanding of tropical fungus ecology, particularly in fields like fungus-tree-symbiosis (mycorrhiza ecology), fungus-ant-symbiosis (mushroom "cultivation" of Attidae, studied by Weber), establishing the principal fungus partners of such relationships. Of these, for the American tropics, has been particularly interesting the ecology of the ectotroph (Singer & Morello) and of the cicatrizer mycorrhiza, characteristic for the tropical forest succession. In view of the complicated eco-systems involved, we are now beginning (Piterbarg 1966) to coordinate studies on soil fungi populations with fungus sociology and to transfer this method to the study of neotropic forest communities.

SIMPÓSIO SOBRE A BIOTA AMAZÔNICA

BOTÂNICA

BRYOLOGY OF THE AMAZON BASIN

William C. Steere  
The New York Botanical Garden.

The Amazon Basin possesses an enormously rich and well developed bryophyte flora; it certainly equals and probably surpasses any other area of similar size in the world in the number of species of bryophytes to be found there. Richard Spruce, that heroic traveller and collector who spent the years between 1849 and 1860 in the Amazon Basin, wrote in 1858 that by moving one degree of latitude or longitude, he found approximately half the plants to be different. On this basis, he calculated that there yet remained to be discovered in the great Amazonian forest, "from the Cataracts of the Orinoco to the mountains of Mato Grosso," some 50,000 or even 80,000 new species. This estimate is overwhelming, yet Spruce's experience was more extensive than that of any other botanist before him and, with bryophytes, since then. His judgment in systematic matters has proven to be excellent and tended to be more conservative than otherwise.

Where the Amazonian forest impinges upon the eastern flank of the Andes, and is subjected to the influence of altitude and the local climates typical of more elevated regions, there occurs an enormous diversity within all families of plants, to which Spruce's enthusiastic remarks on the forest of Canelos, at the base of the eastern foothills of the Ecuadorian Andes, will testify.

The Musci collected by Spruce in South America, as well as all other collections then known, were brought together and described in one volume by Mitten (1869) and Spruce later produced a monumental work on the Hepaticae he had collected himself (1884). Since that time, a very extensive literature on the bryology of the Amazon Basin has appeared, widely scattered through the publications of the world.

Unfortunately, a final and definitive treatment of the Bryophyta of the Amazon Basin will not be possible for a long time, for many reasons, among them the inadequate collecting and incomplete geographic coverage of the past, the existence of large unidentified collections, the wide distribution of specimens already collected in the herbaria of both hemispheres, the description as new of many taxa of doubtful validity, and reports of species from the area that,

it seems to me that my first useful step in clearing away some of the stumbling blocks in the path of bryologists will be to bring together in the form of a reasonably complete bibliography all the available published literature on the bryology of the Amazon Basin. Further information on field collectors, the inclusive dates of their work, and the present location of their collections, will also be gathered together and presented in the hope that these data will be of assistance in evaluating taxonomic problems and in identifying original and type specimens. Once this basic bibliography is assembled, catalogues and check-lists can then be compiled to serve as a working basis for the final determination of the systematic and taxonomic validity of the species and genera that actually occur in the Amazon Basin and to reconcile them with the taxa reported in the world's literature. The final and most important step will be, of course, a thorough monographic revision of the bryophytes, with accurate descriptions and illustrations, a major task that will require several years of dedicated work by competent bryologists.

# SIMPÓSIO SOBRE A BIOTA AMAZÔNICA

## BOTÂNICA

### TIPOS DE VEGETAÇÃO QUE OCORREM NA AMAZÔNIA

João Murça Pires  
Universidade Nacional de Brasília

A região amazônica ocupa uma área de c. 6.5 milhões de quilômetros quadrados, dos quais, mais da metade, c. 3.5 milhões, em Território Brasileiro. Define-se com grande realce, no continente, pela uniformidade paisagística de sua flora que é representada por uma absoluta predominância das florestas pluviais de grande porte.

Conforme afirma Pedro de Moura, há grande correlação entre a vegetação da Amazônia e o seu relêvo, já que este é um dos elementos determinantes do clima. Na zona de transição para o Brasil Central há uma sensível superposição entre o mapa fitogeográfico e o relêvo.

Em linhas gerais, pode-se fazer a seguinte correlação entre relêvo e tipos de vegetação: (1) Flora da planície de alagação (mata de várzea); (2) flora da cota enxuta (mata de terra firme da planície); (3) flora do planalto (mata de terra firme) e (4) flora do peneplano (mata de terra firme). As cachoeiras são os degraus que marcam a transição para o peneplano cristalino.

Fisionômica, a vegetação amazônica, a grosso modo, pode ser classificada nos seguintes tipos: (1) Mata de terra firme; (2) Campo de terra firme; (3) campina; (4) mata de várzea; (5) campo de várzea; (6) vegetação serrana; (7) campos litorâneos e (8) vegetação marítima. Cada um desses tipos, se bem que guarda grande uniformidade paisagística, varia sensivelmente em função das distâncias das diferentes áreas entre si, bem como da orientação em que estas distâncias são computadas, isto é, variação em latitude e variação em longitude. Quanto a barreiras naturais, a maior

delas é constituída pelo próprio Rio Amazonas que divide a região em duas sub-regiões. Levando-se em conta a comumente aceita divisão em Baixo a Alto Amazonas, os rios Negro (ao norte), Madeira (ao sul) e o próprio Amazonas, delimitam quatro setores: Nordeste, Noroeste, Sudeste e Sudoeste.

Preferindo uma classificação baseada mais na fisionomia do que na topografia, os oito tipos de vegetação recebem aqui uma descrição sumária, bem como, referências são feitas a alguns subtipos que são restritos a áreas de pouca expressão.

É oferecida uma sugestão para explicar as diferentes formas de vegetação, com base na biomassa, isto é, na quantidade de matéria orgânica suportada por área, quantidade dos elementos nutritivos disponíveis e sua mobilidade.





THE SOCIETY OF THE SIGMA XI  
FOR THE ENCOURAGEMENT OF SCIENTIFIC RESEARCH

OFFICE OF THE  
EXECUTIVE SECRETARY

8 November 1965

51 PROSPECT STREET  
NEW HAVEN, CONNECTICUT 06511

Dr. Bernard Lowy  
Department of Botany  
Louisiana State University  
Baton Rouge, Louisiana

Dear Dr. Lowy:

This will acknowledge and thank you for  
your letter and the Sigma Xi Grant-in-Aid  
of Research report.

On behalf of the Committee, we are pleased  
to receive this report and our good wishes  
are extended to you for your future re-  
search activities.

Sincerely yours,

*Thomas T. Holme*

Thomas T. Holme  
Executive Secretary

TTH:hm



THE SOCIETY OF THE SIGMA XI  
FOR THE ENCOURAGEMENT OF SCIENTIFIC RESEARCH

OFFICE OF THE  
EXECUTIVE SECRETARY

14 October 1966

51 PROSPECT STREET  
NEW HAVEN, CONNECTICUT 06511

Dr. Bernard Lowy  
Department of Plant Pathology  
Louisiana State University  
Baton Rouge, Louisiana 70803

Dear Dr. Lowy:

This will acknowledge and thank you for your letter and the enclosed reprints, which represents research done under a Grant-in-Aid of Research received in 1963.

On behalf of the Committee, we are pleased to receive these reprints and our good wishes are extended to you for your future research activities.

Sincerely yours,

*Thomas T. Holme*

Thomas T. Holme  
Executive Secretary

TTH:hm



THE SOCIETY OF THE SIGMA XI  
FOR THE ENCOURAGEMENT OF SCIENTIFIC RESEARCH

OFFICE OF THE  
EXECUTIVE SECRETARY

Mr. Bernard Lowy  
Louisiana State University  
Baton Rouge, Louisiana

51 PROSPECT STREET  
NEW HAVEN, CONNECTICUT 06511

20 August 1965

Dear Mr. Lowy:

This letter is written in regard to a Sigma Xi Grant-in-Aid of Research award granted to you in the summer of 1963.

Records here at National Headquarters indicate that your final report has not been received in this office. It could be that it has been misdirected through the mails. We would, therefore, appreciate receiving from you a report of the work done in accordance with our letter to you stating that "It is understood that in accepting this award you will at the close of the academic year (1964) submit a report of the work done to the Committee in care of Professor Thomas T. Holme, Executive Secretary, The Society of the Sigma Xi, 51 Prospect Street, New Haven, Connecticut 06511."

We look forward to hearing from you at an early date.

Sincerely yours,

*Helen B. Madigan*

(Mrs.) Helen B. Madigan  
Secretary for:

Harlow Shapley, Chairman  
Grants-in-Aid of Research Committee

September 16, 1965

Mrs Helen B. Madigan  
The Society of The Sigma Xi  
51 Prospect Avenue  
New Haven, Connecticut

Dear Mrs. Madigan:

Your letter of August 20 has just reached me from Baton Rouge. I have been in Brazil since June under the auspices of a Fulbright Grant .

I do not of course, have at hand my correspondence with the Society but I am confident that I submitted a report on my work in Guatemala during the summer of 1963. I am distressed to know that this has not been received. In my experience, it is not unusual for mail to be misdirected in Latin America but it is something of a rarity at home.

At this moment I am very pressed for time and it will not be possible now to rewrite my formal report because I am in the middle of preparations for a collecting trip to the Amazon and must leave shortly. I expect to be pretty much on the move there, with Manaus as headquarters, through December, and to return to São Paulo by Christmas.

I hope you may accept this letter together with the enclosed reprints in which the Society's assistance is acknowledged, as an interim report. Upon my return I shall be glad to write another statement for the record should you require it.

Sincerely yours,

Bernard Lowy  
Prof. of Botany  
Louisiana State University

LOUISIANA STATE UNIVERSITY  
AND AGRICULTURAL AND MECHANICAL COLLEGE  
BATON ROUGE · LOUISIANA · 70803

THE GRADUATE SCHOOL  
OFFICE OF THE DEAN

December 15, 1964

Professor Bernard Lowy  
Department of Botany  
Audubon Hall  
Campus

Dear Professor Lowy:

The University Council on Research has found it necessary to deny your request for funds for reasons as shown in the following excerpt from the minutes of its last meeting:

Request for \$500.00 for travel in Brazil during (or before) a sabbatical he hopes to spend there. This request was denied on the basis of the numerous previous grants made to Professor Lowy.

Sincerely yours,

*Max Goodrich*  
Max Goodrich, Secretary  
Council on Research



## Research Council Meeting

Although the Council on Research meets at intervals throughout the year, the last meeting before Christmas will be devoted to requests for grants-in-aid for the summer of 1965.

The Council invites applications for support of scholarly and creative activities for which financial support is not readily available from other sources. The grants are intended to cover such items as travel and subsistence for research in libraries or in the field, supplies, and subsistence while carrying on scholarly investigations during summer vacation periods.

Faculty members desiring to be considered for a grant would do well to submit proposals by November 14, 1964.

Q-VI-1964

September 12, 1963

Dr. Max Goodrich  
Council on Research  
Boyd Hall

Dear Dr. Goodrich:

During the past summer, with the help of a grant from the Council on Research, I was able to study some of the fungi of Guatemala and to extend the work begun last year in Mexico. Consequently, a paper concerned with the results of the research in Mexico is now in press and publication is expected before the end of this year. When they become available, I shall submit reprints to the Council.

Many collections of fungi were made this summer in both Guatemala and Mexico and these are to be incorporated into the permanent Mycological Herbarium of the University (established by the grantee in 1954 and now containing nearly 6000 collections from over 50 countries.) On August 21, 1963, the grantee gave an invitation lecture (in Spanish) at the Instituto de Biología, University of Mexico, on the subject of his research with the fungi of tropical America.

Among the major localities in Guatemala where fungi were collected during the summer of 1963, are the following: Environs of Guatemala City, road to Escuintla, Volcan Agua, road to Antigua, Bananera, Quirigua, Panajachel and environs, road to Chichicastenango, Solola, environs of Quetzaltenango, San Marcos (La Union) and the road to Retalhaleu. Some collections were also made along the road from San Marcos to the Mexican border, crossing into Tapachula. The grantee traveled alone, but utilized local guides whenever possible, especially in deeply wooded areas where there are few footpaths. Several hundred collections were made, many (perhaps most) of them representing new geographical distributions for the various species. From preliminary work done at the University of Mexico, it appears likely that new species may be among them.

The University of Costa Rica has begun a project on a study of the fungus flora of their country. Some mycologists have been asked to collaborate, each to contribute a section to the proposed work. I have been invited to write a part on the Basidiomycetes. I therefore plan to devote next summer (1964) to collecting the necessary material upon which my contribution must be based, since available specimens are entirely inadequate or lacking.

For these reasons, I request that the sum of \$1500. granted by the Council on Research, to support the project outlined above, for the summer of 1964.

Sincerely yours,

Bernard Lowy  
Assoc. Prof.

## Council on Research Members

As a new member of the Council on Research for a three-year term, January 1, 1963, to December 31, 1965, President Hunter has named Dr. Arthur R. Colmer, Professor of Bacteriology. He replaces Dr. George H. Lowery, Boyd Professor of Zoology.

Other members of the Council are Dr. Walfrid J. Jokinen, Associate Professor and Chairman of the Department of Sociology, Dr. Elliott D. Healy, Professor of French, the Vice President and Dean of Academic Affairs *ex officio*, and the Dean of the Graduate School *ex officio*.

JAN. 1967

# Campus Correspondence

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LOUISIANA STATE UNIVERSITY

FROM: Max Goodrich, Secretary  
Council on Research *MG*

TO: Dr. Bernard Lowy  
Department of Botany

DATE: October 28, 1963

The Council on Research, though it does not usually make travel and subsistence awards to the same person for a succession of summers, approved your request for research support for another summer, in the amount of \$1500 for July and August, 1964. At the same time the Council asks you to consider other possibilities of support if your program calls for continuation in the summer of 1965.

November 4, 1963

Dr. Max Goodrich  
Council on Research  
Boyd Hall

Dear Dr. Goodrich:

Your notification of the Council's approval of my request for a travel grant for study in Costa Rica in the summer of 1964, is gratefully received.

Although I wish to continue my studies in future summers and to seek financial support for my program from appropriate organizations outside the University, I hope I shall not be excluded from making application for such assistance from the University Council on Research as well.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

30-X-1963

Dr. G. Lowery informed me of favorable action taken by the Council on Research on my request for a grant-in-aid for the summer of 1964.

Louisiana State University

FROM:

TO : Office of the Auditor

Date: 24 - IV - '64

RE: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ 1500<sup>00</sup> representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my personal account until these funds are expended for the purpose approved, and a detailed report with proper receipts rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. In no case will meals be shown in a lump sum. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

Cash payment of student or non-student wages is not allowable from this grant. If such funds are required, they must be transferred by the Office of the Graduate Schools to the departmental budget and such employees paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible. Such a request when necessary must come through the Office of the Dean of the Graduate Schools by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during the current fiscal year, and all necessary receipts and other information and any unexpended cash sent to this office by June 30, 1965. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1965, and you will then have sufficient time to make a settlement of any additional grant given to you.

---

I hereby agree that final settlement of this advance will be made by me on or before June 30, 19  . If settlement of this advance is not made by this date, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

Max Goodrich

Signed

---

Department

COPY GIVEN ME BY DR. GOODRICH

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

July 2, 1963

Dr. B. Lowy  
c/o American Embassy  
Mexico, D.F.

Dear Dr. Lowy:

I just had a call from our Auditor that you have not made an accounting of your grants for last year. I am wondering if you could send us as soon as possible an accounting of your \$1200 grant that you received for 1962-63. I am sure that you will not have any of your receipts with you but perhaps you could send us an itemized statement of the account. You might make a statement that your receipts will be submitted when you return to Baton Rouge.

Hoping that you are enjoying your summer, I am

Sincerely yours,

*Helen Harrell*  
Helen Harrell  
Counselor

July 29, 1963

Miss M. Harrell  
The Graduate School  
Louisiana State University  
Baton Rouge, La.

Dear Miss Harrell:

I have just returned to Mexico from my trip to Guatemala and I find a note from Mrs. Betsy Hissong of the Campus Federal Credit Union indicating that as of July 24 my \$1200. fund had not been deposited to my account in the City National Bank. The delay may have been due to my failure to sign a statement which was forwarded to me in Guatemala and which I returned to you immediately upon receipt. If you have not yet received this signed statement please consider this letter as an instrument giving you power of attorney to do so in my behalf, in order to avoid any further delay. Also, please be so kind as to inform Mrs. Hissong as soon as the fund has been deposited. I will very much appreciate your cooperation in this matter. I hope there are no other obstacles in the way of clearing up this question and just a brief statement from you, after this has been done, would be most helpful.

With best regards,

Sincerely yours,

Bernard Lewy

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

August 2, 1963

Dr. Bernard Lowy  
c/o American Embassy  
Mexico, D. F.

Dear Dr. Lowy:

Miss Harrell has called my attention to your letter to her concerning your grant of \$1200.

I am today sending the requisition over with the request that your check be deposited in the City National Bank. I am also notifying Mrs. Hissong that this is being done.

Since we have not received your signed contract I am enclosing a duplicate with the request that you return it at the earliest possible date.

I would also like to call your attention to the fact that you have not made an accounting of the \$1200 grant you received last year. I would appreciate receiving this accounting just as soon as you return to Baton Rouge, as this was due in by June 30, 1963.

Sincerely yours,

*Max Goodrich*  
Max Goodrich  
Dean

August 6, 1963

Dr. Max Goodrich  
Office of the Dean  
Louisiana State University  
Baton Rouge, La.

Dear Dr. Goodrich:

I have just received your letter together with the enclosure for the Auditor's Office. I want to thank you for expediting the deposit of my \$1200. grant. No doubt I could have saved myself some worry on this account had I signed the statement enclosed, at the proper time. I left Mexico City for Guatemala on June 21 and did not return until July 27. In the interim, a copy of the contract was forwarded to Guatemala City where I received it on July 9. I signed and returned it to Miss Harrell the same day but apparently it did not reach its destination. I later found out that several other letters I sent from Guatemala shared the same fate.

I shall stop by at your office upon my return to Baton Rouge to clarify the accounting of the 1962 grant.

Once again, with many thanks,

Sincerely yours,

B. Lewy

September 11, 1963

Dr. Max Goodrich  
Council on Research  
Boyd Hall

Dear Dr. Goodrich:

Enclosed are itemized accounts of the expenditure of funds granted by the Council on Research to the grantee (B.Lowy) for the years 1962 and 1963.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

ACCOUNT OF FUNDS GRANTED BY RESEARCH COUNCIL TO B. LOWY .. 1963

Living expenses exclusive of rent: 70 days at \$10./day ...	\$700.00
(3 meals a day: June 14 - August 23)	
Rent for 70 days at \$3.90/day (voucher "A" attached) ....	272.00
Books for professional use .....	16.00
Travel by air New Orleans - Mexico City (RT Eastern Airlines .. voucher "B" attached) .....	121.30
Travel by air Mexico City - Guatemala City (OW Taca Airlines .. voucher "C" attached) .....	58.59
Travel by bus Guatemala City - Tapachula, Mexico .....	15.00
Travel by air Tapachula - Tuxtla Gutierrez, Mexico (OW Mexicana Airlines ) .....	10.00
Travel by bus Tuxtla Gutierrez - Mexico City .....	7.50
Travel to collecting sites in Guatemala and Mexico, exclu- sive of destinations listed above: by local bus, taxi, boat or pack animal .....	45.00
Total:	<u>\$1245.39</u>

Bernard Lowy

CHECK FOR \$45.39 RECEIVED FROM AUDITOR'S OFFICE - 23-IX-63

"REIMBURSEMENT OF EXPENSES IN EXCESS OF ADVANCE" (CHECK DATED = 24-IX-63)

ACCOUNT OF FUNDS GRANTED BY RESEARCH COUNCIL TO B.LOWY .. 1962

Living expenses exclusive of rent: 80 days at \$10./day ... \$800.00 (based on 3 meals a day)	
Rent for 80 days at \$3.40/day .....	272.00
Travel by car Baton Rouge - Mexico City & return (3000 miles at 6 cents/mile .....	180.00
Travel by bus Mexico City - Villahermosa .....	7.00
Travel by air Villahermosa - Mexico City (Mexicana Airlines) .....	24.50
Travel by bus Mexico City - San Cristobal Las Casas (RT)..	18.00
Travel to collecting sites in Mexico, exclusive of destinations listed above: by local bus, taxi, boat or pack animal .....	30.00
Total:	<u>\$1331.50</u>

Bernard Lowy

THE UNIVERSITY OF TENNESSEE  
KNOXVILLE  
DEPARTMENT OF BOTANY

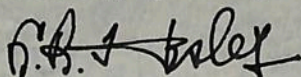
Jan. 12, 1963

Dear Lowy:

I have written the Sigma Xi re: your request for funds. This I am pleased to do; I hope the grant is forthcoming, and that you can make the excursion into Mexico & Guatemala. Wish I might go along.

Thanks for your christmas card, and a Happy New Year to you!

Sincerely yours,



L. R. Hesler

THE UNIVERSITY OF TEXAS  
AUSTIN 12

THE DEPARTMENT OF BOTANY

January 14, 1963

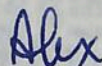
Dr. Bernard Lowy  
Department of Botany  
Louisiana State University  
Baton Rouge, Louisiana

Dear Bernie:

Your letter of January 8th arrived this weekend. I shall be very happy to send a recommendation to the Society of the Sigma Xi to support your request for a grant. I am sure you will put such a grant into good use.

I am still waiting for those fabulous myxos you promised me! Very best regards,

Sincerely,



Const. J. Alexopoulos  
Professor of Botany

CJA:bh

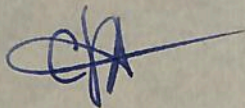
MEMO FROM

CONST. J. ALEXOPOULOS

Bernie :

If you get this  
I'll be expecting a fine  
French dinner with beaucoup  
de vin next time I come  
to Louisiana.

Best of luck.



LOUISIANA STATE UNIVERSITY  
BATON ROUGE, LOUISIANA

COLLEGE OF ARTS AND SCIENCES  
BOTANY AND PLANT PATHOLOGY

AGRICULTURAL EXPERIMENT STATION  
PLANT PATHOLOGY

January 21, 1963

Mr. Don A. Key,

The superlatives dazzle me. I'm trusted to paraphrase a certain well-known pronouncement to wit - Never has so much been said for one who has done so little.

More natural than the dinner engagement is on - so whenever you can get away, it will be a pleasure to entertain you and your wife - preferably in New Orleans, where it can be done in your style. This year - grant or no grant (after all, I already have a grant that will get me to Guatemala - the  $\Sigma$  is only to get me back). Anyway, I'll send you some appropriate message if the latter comes through.

Yours,  
Renee

PS - A few "fabulous" (aren't they all) Mexican Myxas will be on their way shortly.  
Hunt Institute for Botanical Documentation



THE SOCIETY OF THE SIGMA XI  
AND  
THE SCIENTIFIC RESEARCH SOCIETY  
OF AMERICA



18 March 1963

Mr. Bernard Lowy  
Botany Department  
Louisiana State University  
Baton Rouge, Louisiana

Dear Mr. Lowy:

I am happy to inform you that at a recent meeting of the Sigma Xi-RESA Committee on Grants-in-Aid of Research, an award of \$ 600 was granted to you, as outlined in your application, for the further study of the taxonomy and morphology of the tremellaceous fungi of Guatemala and Mexico.

Although our funds available this year are anticipated to be at an all time high, the number of applications on hand and anticipated did not permit us to meet in full your request. We hope that you will be able to secure the additional amount necessary to meet your contemplated research program.

It is understood that in accepting this award you will at the close of the academic year submit a report of the work done to the Committee in care of Professor Thomas T. Holme, Executive Secretary, The Society of the Sigma Xi, 51 Prospect Street, New Haven 11, Connecticut.

It is further understood that all published reports of your work will contain a statement that the research was aided by a grant from The Society of the Sigma Xi and RESA Research Fund. Also, any equipment purchased with the funds which have been made available is to be considered the property of the institution where the research is being carried on.

Enclosed is a blank which we would appreciate having you complete at your convenience. Upon its receipt, the National Treasurer, Dr. Donald B. Prentice, will forward a check to you for the amount of the award on or about ~~January~~ 1, 1963.

It is a great pleasure to express the Committee's hope for your continued success in scientific research.

Sincerely yours,

*Thomas T. Holme*

Thomas T. Holme,  
Executive Secretary

for:

Harlow Shapley, Chairman  
Grants-in-Aid of Research Comm.

TTH:rg

Enclosure:

cc: Office of the President



THE SOCIETY OF THE SIGMA XI  
FOR THE ENCOURAGEMENT OF SCIENTIFIC RESEARCH

OFFICE OF THE  
TREASURER

51 PROSPECT STREET  
NEW HAVEN 11, CONN.

March 26, 1963

Mr. Bernard Lowy  
Botany Department  
Louisiana State University  
Baton Rouge, Louisiana

Dear Mr. Lowy:

In accordance with your request of March 21, I am happy to enclose the Sigma Xi check for \$600, the amount granted to you by the Committee on Awards.

With best wishes for the success of your research.

Sincerely,

Donald B. Prentice  
Treasurer

DBP:DF  
Enc.

STATE  
UNIVERSITY OF IOWA  
IOWA CITY, IOWA



Department of Botany

30 March '63

Dear Berne:

Thanks for letting me know about the  $\Sigma 5$  grant.

Hope you have a good season.

Some time when you are in a promising locality send me a sample of dried bark or litter to put in a few petri dishes. I have been getting good results from such samples from various places - not only myxos, but that is what I am working on now chiefly.

Cordially

GWM

THE UNIVERSITY OF TEXAS  
AUSTIN 12

THE DEPARTMENT OF BOTANY

March 27, 1963

Dr. Bernard Lowy  
Department of Botany  
Louisiana State University  
Baton Rouge, Louisiana

Dear Bernie:

Congratulations on the Sigma Xi grant. I am sorry that the total amount you requested was not approved, but \$600 will buy several good meals, even at Antoine's! As for me visiting the gourmet's capital, I must regretfully tell you that I am on a diet trying to lose a few hundred pounds, which I have put on in recent months.

I do not remember whether I ever thanked you for the Mexican myxomycete specimens. I was delighted to have them even though some of them were not in very good condition because they were pressed in packets. Next time you go collecting, you should take match boxes, pill boxes, or any other kind of boxes in which you can store myxomycete specimens with the proper respect, honor, and reverence which is due them.

Seriously, I am hoping to get to your part of the country some time before too long and I hope that you will take me out to your favorite collecting ground for some good specimens.

With best regards, I am.

Sincerely yours,



Const. J. Alexopoulos  
Professor of Botany

CJA:bh

May 13, 1963

Dear Boss:

Within the next few weeks, probably on June 15, I'll be leaving for Guatemala where friends with United Fruit and Esso International have offered their help in getting me to accessible collecting areas. The United Fruit location is at a place called, appropriately enough, Bananeras, which I can't find on any map but which is near San Jose on the Atlantic coast, in good tropical lowlands. Depending upon local conditions, I expect to be hunting from this point north along the coastal strip for a couple of weeks and then get up into the mountains. Then I plan to return to Mexico via Chiapas where I'll work around the Tuxtla Gutierrez region and other localities that seem promising.

I shall be at Amherst for the meetings this year.

I don't think it will surprise you to know that I am interested in leaving the South. For several years I have been indecisive about making a move but I now think that in the long run, it would be best for all of us. Pressure of various kinds, subtle and otherwise, have been at work and I am now virtually certain that my failure to advance academically during the past four years has been due, at least in part, to other than strictly professional considerations. I would like to discuss the whole matter with you at Amherst. Should you in the meantime be able to recommend some other University position, I'll gladly give it serious consideration.

as ever,

Prof. Thomas T. Holme  
51 Prospect Street  
New Haven 11, Conn.

Dear Dr. Holme:

As the recipient of a grant-in-aid from the society of the Sigma Xi and in accordance with terms of the agreement stated in your letter of notification of 18 March, 1963, The following brief report is being submitted to you on work done on the project supported by the Society.

During the summer of 1963 I collected and studied some of the fungi of Guatemala and continued similar studies in southern Mexico, begun there in 1962. My chief objective was the investigation of the taxonomy, morphology, phylogeny and distribution of the tremellaceous fungi in the regions visited. Among the major localities in Guatemala where fungi were collected were the following: environs of Guatemala City, road to Esquintla, Volcan Aqua, road to Antigua, Bananera, Quirigua, Panajachel and environs, road to Chichicastenango, Solola, environs of Quetzaltenango, San Marcos (La Union), and the road to Retalhaleu. Collections were also made along the road from San Marcos to the Mexican border, crossing into Tapachula (Chiapas). In the state of Chiapas, further collections were made in the environs of Tuxtla Gutierrez.

Several hundred collections were made, most of them representing new geographical distributions for many species. Among the acquisitions was a fungus which is being described as a new genus (Mycologia in press), of special interest because it has made possible a new interpretation of the phylogeny of some Tremellales.

332.1

LOUISIANA STATE UNIVERSITY

BUDGET

Office of the Auditor

Date: 5/11/63

TO: Anticipated Income Control a/c 13402

1400-0070	_____
1400-0080	_____
1400-0090	<u>600.00</u>
1785-0080	_____
1785-0090	_____

TO: Appropriated Budget Control a/c 13502

Salaries	_____	/100	_____
Support	<u>115-10-96</u>	/400	<u>600.00</u>
Support	_____	/400	_____
Indirect Costs	_____	/700	_____

The title of the grant is Society of Sigma Xi & RESA Research Fund  
 the account number is 115-10-96. The amount of the grant is  
 \$ 600.00 for the period of not stated to \_\_\_\_\_.  
 This budget entry will appear on your next departmental budget sheet.

Billie McKay  
 Signature

Voucher # 117-16-1

Sent by President's Office to Auditor. Unknown to Auditor  
 That grant was made directly to me. I closed  
 this with Mrs. McKay

LOUISIANA STATE UNIVERSITY

BUDGET

Office of the Auditor

Date: 5/21/63

TO: Anticipated Income Control a/c 13402

1400-0070	_____
1400-0080	_____
1400-0090	<u>600.00</u>
1785-0080	_____
1785-0090	_____

TO: Appropriated Budget Control a/c 13502

Salaries	_____	/100	_____
Support	<u>115-10-96</u>	/400	<u>600.00</u>
Support	_____	/400	_____
Indirect Costs	_____	/700	_____

The title of the grant is Society of Sigma Xi & RBSA Research Fund  
 the account number is 115-10-96. The amount of the grant is  
 \$ 600.00 for the period of not stated to \_\_\_\_\_.  
 This budget entry will appear on your next departmental budget sheet.

*Bill McElroy*  
 Signature

Voucher # 117-16-1

T.

- \* Dr. William van Diepen  
30 St. James  
Boston. Mass.  
(Director of Research, 1960  
United Fruit Co.)  
(formerly LSU.. food  
transportation)  
Honduras

- \* Sr. Carlos Pinto  
United Fruit Co.  
Guatemala City, G.  
(recommended by Roger Williams (LA LIMA)  
Entomology LSU)  
Transportation to Bananera  
(Atlantic Coast)  
PACIFIC  
also: Lancetilla Botanic Garden

Referred to { C. F. DE LA WDER  
BANANERA  
GUATEMALA

January 8, 1963

Dear Boss:

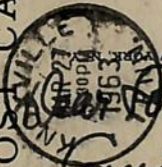
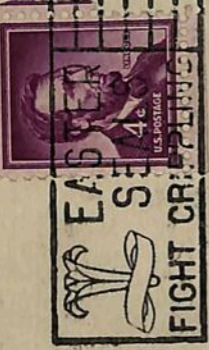
Until a few days ago, my plans for the summer were still unsettled. I had thought of returning to Mexico to continue work on the Tremellales ( a paper is in press in Anales del Instituto de Biologia) and especially to extend the work to Guatemala, but I was not sure that either the time or funds for the project would be available. Now I have been informed that I have a grant (smaller than anticipated) from the University Research Council and leave of absence from the Botany Department for the summer, so I am applying to Sigma Xi for a grant-in-aid for the additional funds that I shall need, and once again am asking for your support.

The Society requests that the applicant ask his references to write on the following points: 1)"the importance of the proposed investigation" and 2)"the qualification of the investigator". The letter should be submitted to: Sigma Xi National Headquarters, 51 Prospect Street, New Haven 11, Connecticut, Attention: Committee on Awards of Grants-in-Aid of Research. This is to be a continuation of the previous project and I am not including a separate statement concerning it, since I think you are quite familiar with it. (understatement of the year). Nevertheless, in the application form, the problem is described as "taxonomy and morphology of the tremellaceous fungi of Guatemala and Mexico".

as always,

POST CARD

Department of Botany  
The University of Tennessee  
Knoxville 16, Tennessee



Mr. Bernard Foy!  
Louisiana State University,  
Dept. of Botany,  
Baton Rouge,  
Louisiana.

Bernard Foy:

Congratulations on your ZX  
Grant. It will help,  
& was deserved.

Best of luck in your  
plans & your trip to  
Mexico & Guatemala.

Mch. 27<sup>th</sup> Sincerely, A.B. + Alex

RTVUE

January 8, 1963

Dear Dr. Hesler:

Until a few days ago, my plans for the summer were still unsettled. I had thought of returning to Mexico to continue work on the Tremellales (a paper on the Mexican species is in press) and to extend the research to Guatemala, but was not sure that either the time or funds for the project would be available. Now I have been informed that I have a small grant from the University Research Council and leave of absence from the Botany Department to go hunting for fungi, so I am applying to Sigma Xi for a grant-in-aid for the additional funds that I shall need, and once again asking for your assistance.

The Society requests that the candidate ask his references to write on the following points: 1) "the importance of the proposed investigation" and 2) "the qualification of the investigator". The letter is to be submitted to: Sigma Xi National Headquarters, 51 Prospect Street, New Haven 11, Connecticut, Attention: Committee on Awards of Grants-in-Aid of Research. I am including for your reference, a statement which briefly outlines the project, together with a list of publications which I am also sending to the Society upon their request. I would greatly appreciate your support of my application.

With best regards, as always,

B. Lowy

January 8, 1963

Dear Alex:

Until a few days ago, my plans for the summer were still unsettled. I had thought of returning to Mexico to continue work on the Tremellales ( a paper is in press in Anales del Instituto de Biologia) and especially to extend the work to Guatemala, but I was not sure that either the time or funds for the project would be available. Now I have been informed that I have a grant (smaller than anticipated) from the University Research Council and leave of absence from the Botany Department for the summer, so I am applying to Sigma Xi for a grant-in-aid for the additional funds that I shall need, and again am asking for your support.

The Society requests that the applicant ask his references to write on the following points: 1)"the qualification of the investigator" and 2)"the importance of the proposed investigation". The letter should be submitted to: Sigma Xi National Headquarters, 51 Prospect Street, New Haven 11, Connecticut, Attention: Committee on Awards of Grants-in-Aid of Research. This is to be a continuation of the previous project and I am not including a separate statement concerning it, since I think you are amply (to say the least) familiar with it. Nevertheless, in the application form, the problem is described as "taxonomy and morphology of the tremellaceous fungi of Guatemala and Mexico".

With best regards, as always,

**The Society of the Sigma Xi**  
AND  
**The Scientific Research Society of America**  
For the Encouragement of Research in Science



**GRANTS-IN-AID OF RESEARCH**

Grants-in-Aid of Research are supported by voluntary contributions to the Research Fund from the membership of Sigma Xi and RESA, and are usually awarded in amounts ranging from \$50.00 to \$750.00.

Grants-in-Aid of Research are not limited to any particular field of scientific investigation, nor do they take any particular form. They may be awarded for the purchase of apparatus, to pay for technical help, or to assist in publication, etc. There is no restriction as to the place where the work is to be done. The Committee on Awards meets in March, June and November of each year and the awards are announced shortly afterwards.

Applications and supporting letters should be submitted to Sigma Xi National Headquarters, 51 Prospect Street, New Haven 11, Connecticut, Attention: Committee on Awards of Grants-in-Aid of Research, at least one month prior to the meeting at which you desire consideration.

(OVER)

The Society of the Sigma Xi  
AND  
The Scientific Research Society of America  
For the Encouragement of Research in Science

APPLICATION FOR GRANT-IN-AID OF RESEARCH

Date January 8, 1963

Name Lowy Barnard  
Last First Middle  
Address Botany Department, Louisiana State University, Baton Rouge, La.

Age 46

Present position Associate Professor of Botany

Degrees, institutions conferring them, dates M.S., State University of Iowa, 1949;  
Ph.D., State University of Iowa, 1951.

Membership in Sigma Xi and/or RESA Sigma Xi

Titles of articles, if any, published during the last five years, with names of periodicals and dates

Please see attached sheet

Problem to be studied Taxonomy and morphology of the tremellaceous  
fungi of Guatemala and Mexico. (Please see outline attached)

Where problem will be studied Collecting trips are planned in Guatemala and  
Mexico, the Universities in Guatemala City and Mexico City cooperating.

Nature of assistance desired and amount of grant needed For travel and living expenses  
for 70 days in Guatemala and Mexico, the sum of \$750.00 is requested.

Institutional support for study of problem Leave of absence and publication costs.

Previous grants received and applications pending Fulbright grant 1958-59, Peru &  
Argentina; American Philosophical Society grant 1962, Mexico.

Names of assistants or co-workers none

~~Names and addresses of those specialists in this field who have been asked by applicant to send statements indicating (1) the importance of the proposed investigation and (2) the qualification of the investigator.~~

Dr. C.J. Alexopoulos, Dep't. of Botany, University of Texas, Austin.

Dr. L.R. Hesler, Dep't. of Botany, University of Tennessee, Knoxville.

Dr. G.W. Martin, Dep't. of Botany, State University of Iowa, Iowa City.

Signature Barnard Lowy

(If necessary, additional data may be attached to this blank.)

(OVER)

## Research on fungi in tropical America

A study of certain primitive Basidiomycetes (Fungi) has been under way for several years at LSU. These fungi may provide a key to the understanding of the origin, evolution and development of the Basidiomycetes as a whole, a fundamental research problem in the field of Mycology. The occurrence, distribution and habitat of tremellaceous fungi have been ~~is~~ studied, in part, in certain temperate regions, but our knowledge of tropical forms is only <sup>(fragmentary)</sup> beginning. It is to these fungi of the American tropics that the grantee is giving his attention. His research was supported last year by a grant from the American Philosophical Society, which enabled <sup>him</sup> the grantee to travel extensively throughout Mexico, collecting and studying his finds, with the help of laboratory facilities provided by the University of Mexico. Results of this research are to be published ~~this summer~~ in the journal of the Botanical Society of Mexico. At the University of Mexico, the grantee gave an invitational address in Spanish on the subject of his research.

The grantee was a Fulbright scholar to Peru in 1958 and during his 6 months tenure he taught Mycology at the National University of Agriculture near Lima. He was Visiting Professor at the University of Tucuman, Argentina in 1959. This summer his research is again being supported by the LSU Council on Research and by a grant from Sigma Xi, the Research Society of America. \* Since 1955 the grantee has described (in professional journals) 17 new species of tremellaceous fungi and 1 new genus. \* He will extend his search for fungi to Guatemala, collecting in the mountains as well as in the tropical rain forest.

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

November 29, 1962

Professor Bernard Lowy  
Department of Botany  
Audubon Hall

Dear Professor Lowy:

The University Council on Research has approved your application for a grant-in-aid, as shown by the following excerpt from the minutes of its last meeting:

For travel and subsistence to continue (summer, 1963) fungi study in Mexico	\$1200.00
---	-----------

This is to remind you that the grant is made with the condition that you return to L.S.U. for the 1963-64 academic year.

The responsibility for accounting for funds used is placed in your hands by the device of requiring your signature on a cash advance form that states that money will be deducted from salaries unless a suitable accounting is rendered.

The Council requests that in any publication which this grant supports you credit the Research Fund by a statement such as "Supported in part by a grant-in-aid from the University Council on Research."

Some time prior to the initiation of your project you should call at the Office of the Graduate School to discuss matters such as how you desire to receive the money granted, income and withholding tax angles, and Auditor's rules.

Sincerely yours,

*Max Goodrich*  
Max Goodrich, Secretary  
Council on Research

December 10, 1962

Dr. Max Goodrich  
Council on Research  
The Graduate School

Dear Dr. Goodrich:

Thank you for your early notification of favorable action taken by the Council on my application for a grant-in-aid for the summer of 1963.

I shall call at your office some time prior to the initiation of my project to discuss any pertinent details with respect to the grant.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

September 12, 1962

Dr. Max Goodrich  
Council on Research  
Boyd Hall

Dear Dr. Goodrich:

A year ago I requested funds from the Council on Research for travel and subsistence in Mexico in connection with a summer project to study certain Mexican fungi. I am grateful for the Council's support in the form of a grant-in-aid for \$1200. A brief report concerning the results of the project follows.

The Tremellales (Basidiomycetes) of Mexico have not previously been studied and references to them in the literature are scattered and fragmentary. This project was undertaken to collect and study as many of these fungi from different localities as time permitted. Selected areas in the Mexican states of Morelos, Puebla, Veracruz, Oaxaca, Tabasco and Chiapas were visited and collections came from regions <sup>varying</sup> in altitude from over 3000 meters at Nevado de Toluca in the Distrito Federal to slightly above sea level in Veracruz. Vegetational zones represented included coniferous forests (mostly Abies and Pinus spp.) at the higher altitudes near Toluca, temperate to subarid regions in Oaxaca and tropical forests in Tabasco and Chiapas. Rainfall throughout southern Mexico during the summer of 1962 was much below average so that fungi were scarcer than would normally be expected. Nevertheless, over 200 Tremellales were found and about another hundred were examined from the herbaria of the University of Mexico and the National Polytechnic Institute of Mexico. Specimens examined included members of the families Auriculariaceae, Dacrymycetaceae and Tremellaceae and although microscopic work has not been completed on all the material now on hand, at least one collection is to be described as a new species. Many specimens represent new records for Mexico. The complete results of this project (also supported in part by the American Philosophical Society) are to appear in the "Anales del Instituto de Biologia" published annually by the University of Mexico.

Since the work on Mexican tremellaceous fungi cannot be described as complete, I hope to continue these studies in the summer of 1963 and to extend my investigations to Guatemala. Therefore, I again ask the support of the Council and request the sum of \$1200. to be used for travel and living expenses for this purpose.

Sincerely yours,

Bernard Lowy  
Assoc. Prof., Botany

LOUISIANA STATE UNIVERSITY  
BATON ROUGE, LOUISIANA

COLLEGE OF ARTS AND SCIENCES  
BOTANY, BACTERIOLOGY AND  
PLANT PATHOLOGY

AGRICULTURAL EXPERIMENT STATION  
PLANT PATHOLOGY

September 12, 1962

Dr. Max Goodrich  
Council on Research  
Boyd Hall

Dear Dr. Goodrich:

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Since the work on Mexican tremellaceous fungi cannot be described as complete, I hope to continue these studies in the summer of 1963 and to extend my investigations to Guatemala. Therefore, I again ask the support of the Council and request the sum of \$1200. to be used for travel and living expenses for this purpose.

Sincerely yours,

*Bernard Lowy*  
Bernard Lowy

Assoc. Prof. Botany

September 20, 1962

Professor T.T.Holme  
51 Prospect Street  
New Haven 11, Conn.

Dear Prof. Holme:

For the past several years I have been engaged in a research program on the taxonomy of certain groups of tropical fungi. I would like to apply for a grant-in-aid from the Sigma Xi Research Committee and would appreciate receiving an application form which I may submit for your consideration. I plan to continue my work on Mexican fungi during the summer of 1963.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

September 11, 1961

Dr. W.J.Jokinen, Secretary  
Council on Research  
Boyd Hall

Dear Dr. Jokinen:

During the summer of 1962 I plan to extend my studies on fungi to Mexico and such parts of Central America as I may have time to visit, preferably including some areas of Guatemala and Honduras. My headquarters in Mexico will be the Instituto de Biología in Mexico City which is making available to me their laboratory and other facilities.

While in residence in South America during 1958-59, I was able to initiate a mycological survey of the Tremellales of some sections of Argentina<sup>1</sup>, Bolivia<sup>2</sup>, and Peru<sup>3</sup>, this work constituting part of a larger program which is to include, eventually, investigations on the morphology, phylogeny and distribution of the tremellaceous and other fungus flora of Central and South America. In 1955 I published an account (*Lloydia* 18(4): 149-180) of the Tremellales of Louisiana which has provided a basis for further work on these tropical fungi.

I would like to ask the support of the Council on Research for this project and request the sum of \$1500. to be used for travel and living expenses during the course of the investigation.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

- 1 - Contribucion al estudio de los Tremellales de la Argentina. (Lilloa. in press)
- 2 - New or noteworthy Tremellales from Bolivia. (*Mycologia* 51(6): 840-850. 1959.)
- 3 - work in progress

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

January 9, 1962

Professor Bernard Lowy  
Department of Botany & Plant Pathology  
Audubon Hall

Dear Professor Lowy:

The University Council on Research has approved your application for a grant-in-aid, as shown by the following excerpt from the minutes of its last meeting:

For travel and subsistence in Mexico and Central America (summer, 1962) for study of fungi. Reduced from \$1500 since \$1200 is maximum the Council awards. \$1200.00

This is to remind you that the grant is made with the condition that you return to L. S. U. for the 1962-63 academic year.

The responsibility for accounting for funds used is placed in your hands by the device of requiring your signature on a cash advance form that states that money will be deducted from salaries unless a suitable accounting is rendered.

In accepting this grant it is necessary that you assent to the Council rule that in the event monetary returns are realized from any project supported by a grant-in-aid, after one thousand dollars has been received, you will return subsequent returns on a fifty-fifty basis until the amount of the grant has been covered.

Some time prior to the initiation of your project you should call at the Office of the Graduate School to discuss matters such as how you desire to receive the money granted, income and withholding tax angles, and Auditor's rules.

Sincerely yours,

*Max Goodrich*  
Max Goodrich, Secretary  
Council on Research

Dr. Bernard Lowy  
Assoc. Prof. Plant Path.

Dr. Max Goodrich  
Council on Research  
The Graduate School

Jan. 16, 1962

Dear Dr. Goodrich:

Thank you for your letter notifying me of the Council's approval of my application for a grant-in-aid.

I agree to the conditions specified and shall call at your office some time at your convenience to discuss any pertinent details covering the grant.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Plant Path.

mr'b

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

July 12, 1962

Dr. B. Lowy  
c/o American Embassy  
Mexico, D. F.

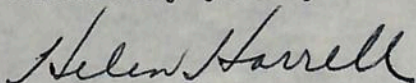
Dear Doctor Lowy:

I am very sorry that you have had trouble with your grants.

I have contacted the Auditor's office and also Mr. Hernandez at the City National Bank and find that your money has been sent to you. I thought sure that I had told you the money probably would not be available until about July 7 or 8th.

I hope that you will have a nice summer and again I am sorry about the grant money.

Sincerely yours,



Helen Harrell  
Counselor

THE GRADUATE SCHOOL  
LOUISIANA STATE UNIVERSITY  
BATON ROUGE 3, LA.

OFFICE OF THE DEAN

May 17, 1960

Professor Bernard Lowy  
Department of Botany  
Stubbs Hall

Dear Professor Lowy:

The University Council on Research has approved your application for a grant-in-aid, as shown by the following excerpt from the minutes of its last meeting:

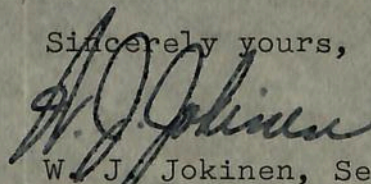
For travel and supplies while conducting research on fungi	\$400.00
---	----------

The awarding of this grant is contingent upon the receipt of research funds for the fiscal year July 1, 1960-June 30, 1961. The Council has acted on the assumption that the same amount as last year will be made available. The responsibility for accounting for funds used is placed in your hands by the device of requiring your signature on a cash advance form that states that money will be deducted from salaries unless a suitable accounting is rendered.

In accepting this grant it is necessary that you assent to the Council rule that in the event monetary returns are realized from any project supported by a grant-in-aid, after one thousand dollars has been received, you will return subsequent returns on a fifty-fifty basis until the amount of the grant has been covered.

Some time prior to the initiation of your project you should call at the Office of the Graduate School to discuss matters such as how you desire to receive the money granted, income and withholding tax angles, and Auditors' rules.

Sincerely yours,



W. J. Jokinen, Secretary  
Council on Research

WJJ:h

May 19, 1960

Dr. W.J.Jokinen  
Council on Research  
Graduate School

Dear Dr. Jokinen:

Thank you for your notification approving a grant for research on fungi which I recently requested of the Council.

I agree to the conditions attached to the grant and shall call at the Graduate School as soon as I know that the funds have been allocated.

Sincerely yours,

Bernard Lowy  
Assoc. Prof. Botany

<sup>To be</sup>  
\$400.00 deposited to my account July 6, 1960.  
See Mrs. Harrell

CAMPUS CORRESPONDENCE

Louisiana State University

FROM:

TO : Office of the Auditor

Date:

RE: Council on Research Grant

I hereby acknowledge the receipt of an advance in the amount of \$ \_\_\_\_\_ representing a grant-in-aid for research awarded to me by the Council on Research.

It is understood that this amount is recorded on the University's books as an advance to me and will be charged to my account until these funds are expended for the purpose approved, and a detailed report with proper receipts will be rendered to the Office of the Auditor through the Office of the Dean of the Graduate School.

In case of travel, University travel regulations will be effective. In no case will meals be shown in a lump sum. Receipts must be turned in for hotel or motel rooms at a single person rate. Extended travel out of the state will be reimbursed on the basis of tax exempt airplane fare and not on a mileage basis. Receipts for any supplies purchased must be attached to the voucher submitted.

✓ Cash payment of student or non-student wages is not allowable from this grant. If such funds are required they must be transferred by the Office of the Graduate School to the departmental budget and such employees will be paid by a University payroll check after proper submission of regular University appointment forms.

The purchase of equipment from this grant is not permissible, such a request when necessary must come through the Office of the Dean of the Graduate School by budget transfer to the departmental budget.

In view of the fact that we cannot carry this grant over to the next fiscal year, this means that this grant must be expended and closed out during this fiscal year, and all necessary receipts and other information and any unexpended cash must be sent to this office by June 30, 1960. If additional time is necessary for you to complete your project then a new request for funds should be made after July 1, 1960, and you will then have sufficient time to make a settlement of any additional grant given to you.

---

I hereby agree that final settlement of this advance will be made by me on or before June 30, 1960. If settlement of this advance is not made when due, I hereby authorize the Office of the Auditor to deduct any unsettled balance from any amount due to me for personal services or other sources.

I hereby certify that I have read this memorandum before signing below and will comply with same and will retain a copy for my information.

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Department

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1975, 1976, AND 1977

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL, 1975	ESTIMATES		ACTUAL, 1975	ESTIMATES	
		1976	1977		1976	1977
<b>TOTAL, ALL AGENCIES</b> .....	19,044.3	21,624.7	23,487.6	18,760.1	20,480.2	22,710.8
<b>DEPARTMENTS</b>						
<b>DEPARTMENT OF AGRICULTURE, TOTAL</b> .....	420.1	478.4	502.8	417.7	486.2	510.5
AGRICULTURAL RESEARCH SERVICE.....	217.1	254.8	266.5	228.8	259.6	275.1
COOPERATIVE STATE RESEARCH SERVICE.....	101.1	114.2	122.3	95.5	111.9	123.8
ECONOMIC RESEARCH SERVICE.....	21.3	24.7	25.0	22.2	24.7	25.0
FARMER COOPERATIVE SERVICE.....	1.2	1.3	1.3	1.2	1.3	1.3
FOREST SERVICE.....	78.2	81.4	85.7	68.6	86.7	83.4
NATIONAL AGRICULTURAL LIBRARY.....	*	*	*	.1	.1	*
STATISTICAL REPORTING SERVICE.....	1.2	2.0	2.0	1.2	2.0	2.0
<b>DEPARTMENT OF COMMERCE, TOTAL</b> .....	215.4	238.8	235.4	214.1	232.3	226.6
BUREAU OF THE CENSUS.....	1.0	1.2	1.3	1.0	1.2	1.3
ECONOMIC DEVELOPMENT ADMINISTRATION.....	10.3	15.0	6.4	15.0	14.7	11.9
MARITIME ADMINISTRATION.....	22.9	21.4	19.6	27.1	28.1	17.7
NATIONAL BUREAU OF STANDARDS.....	43.2	49.6	50.1	45.3	46.9	49.7
NATIONAL FIRE PREVENTION AND CONTROL ADMINISTRATION.....	3.6	6.4	6.1	2.4	4.7	4.2
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.....	128.0	141.7	148.0	119.8	131.7	138.2
OFFICE OF MINORITY BUSINESS ENTERPRISE.....	4.6	1.9	1.9	1.8	3.6	1.9
OFFICE OF TELECOMMUNICATIONS.....	1.3	1.2	1.4	1.1	1.1	1.2
PATENT AND TRADEMARK OFFICE.....	.5	.4	.4	.5	.4	.4
<b>DEPARTMENT OF DEFENSE, TOTAL</b> .....	9,012.5	9,905.0	11,225.2	9,210.6	9,496.4	10,787.6
<b>DEPARTMENT OF THE ARMY</b> .....	1,896.7	2,067.3	2,425.4	2,053.1	2,042.6	2,380.6
<b>MILITARY FUNCTIONS</b> .....	1,885.2	2,055.0	2,412.9	2,041.6	2,030.4	2,368.1
RDT&E APPROPRIATIONS.....	1,798.5	1,965.7	2,318.7	1,957.4	1,941.1	2,276.0
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D.....	86.7	89.4	94.2	84.1	89.3	92.1
<b>CIVIL FUNCTIONS</b> .....	11.5	12.3	12.5	11.5	12.3	12.5
<b>DEPARTMENT OF THE NAVY</b> .....	3,100.2	3,386.2	3,974.5	3,078.5	3,199.7	4,066.1
RDT&E APPROPRIATIONS.....	3,007.5	3,287.0	3,874.0	2,987.0	3,101.0	3,966.0
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D.....	90.6	96.8	98.0	90.3	95.9	97.0
SPECIAL FOREIGN CURRENCY PROGRAM.....	2.1	2.5	2.6	1.2	2.8	3.1
<b>DEPARTMENT OF THE AIR FORCE</b> .....	3,513.5	3,815.8	4,113.7	3,513.1	3,618.6	3,645.6
RDT&E APPROPRIATIONS.....	3,271.5	3,572.8	3,873.6	3,271.5	3,375.7	3,405.5
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D.....	241.5	242.9	240.1	241.5	242.9	240.1
<b>DEFENSE AGENCIES</b> .....	476.5	606.1	680.7	536.2	607.8	668.0
RDT&E APPROPRIATIONS.....	470.1	598.7	673.5	529.8	600.4	660.8
PAY AND ALLOWANCES OF MILITARY PERSONNEL IN R&D.....	6.5	7.4	7.3	6.5	7.4	7.3
DEPARTMENTWIDE FUNDS.....	1.7	1.7	1.0	3.0	2.0	1.0
DIRECTOR OF TEST AND EVALUATION, DEFENSE.....	23.9	27.9	29.9	26.8	25.7	26.3
<b>DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL</b> .....	2,375.2	2,602.6	2,537.9	2,092.4	2,381.6	2,520.6
ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION.....	135.4	142.6	127.8	114.1	134.5	129.4
CENTER FOR DISEASE CONTROL.....	42.6	50.7	52.9	44.6	48.9	40.1
FOOD AND DRUG ADMINISTRATION.....	35.9	36.9	38.0	27.6	28.6	29.7
HEALTH RESOURCES ADMINISTRATION.....	43.3	34.9	34.9	59.6	34.7	29.9
HEALTH SERVICES ADMINISTRATION.....	17.3	15.9	13.2	9.9	17.0	14.9
NATIONAL INSTITUTE OF EDUCATION.....	69.9	70.0	90.0	82.8	70.0	88.0
<b>NATIONAL INSTITUTES OF HEALTH</b> .....	1,845.5	2,029.5	1,950.3	1,602.8	1,855.7	1,972.3
OFFICE OF EDUCATION.....	45.9	78.5	88.8	53.1	56.3	77.7
OFFICE OF HUMAN DEVELOPMENT.....	64.3	70.3	62.0	47.2	60.2	63.4
OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.....	12.6	13.1	13.1	10.6	11.5	11.1
OFFICE OF THE SECRETARY.....	26.2	25.0	30.6	8.7	32.5	29.6
SOCIAL AND REHABILITATION SERVICE.....	9.6	9.2	9.2	10.1	9.2	9.2
SOCIAL SECURITY ADMINISTRATION.....	22.6	25.9	27.0	21.3	22.5	25.2
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.....	62.0	68.1	77.7	58.7	63.3	73.8
<b>DEPARTMENT OF THE INTERIOR, TOTAL</b> .....	280.8	330.0	312.9	242.2	306.0	307.6
BONNEVILLE POWER ADMINISTRATION.....	6.0	8.6	3.9	3.7	10.2	4.7
BUREAU OF LAND MANAGEMENT.....	.8	.8	1.0	.5	.8	1.0
BUREAU OF MINES.....	101.6	139.0	129.2	76.7	118.4	129.1
BUREAU OF OUTDOOR RECREATION.....	*	*	*	*	*	*
BUREAU OF RECLAMATION.....	7.8	8.6	8.0	8.0	9.0	8.2
GEOLOGICAL SURVEY.....	114.5	118.4	114.8	101.9	117.2	114.8
NATIONAL PARK SERVICE.....	8.4	9.3	9.6	8.4	9.3	9.6
OFFICE OF THE SECRETARY.....	1.7	2.5	1.7	1.1	1.8	1.5
OFFICE OF WATER RESEARCH AND TECHNOLOGY.....	19.5	20.9	22.3	23.0	19.0	18.2
UNITED STATES FISH AND WILDLIFE SERVICE.....	20.6	21.9	22.4	19.0	20.1	20.6
<b>DEPARTMENT OF JUSTICE, TOTAL</b> .....	44.3	61.8	42.5	43.8	49.8	42.9
BUREAU OF PRISONS.....	.6	.9	1.9	.6	.9	1.8
CRIMINAL ENFORCEMENT ADMINISTRATION.....	1.5	5.6	4.3	3.4	4.7	3.6
FEDERAL BUREAU OF INVESTIGATION.....	1.2	1.2	1.4	.6	1.0	.6
IMMIGRATION AND NATURALIZATION SERVICE.....	.1	.3	.4	.1	.3	.4
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION.....	40.9	53.7	34.5	39.2	43.0	36.6

CONTINUED ON NEXT PAGE

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1975, 1976, AND 1977

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	ACTUAL, 1975	ESTIMATES 1976	ESTIMATES 1977	ACTUAL, 1975	ESTIMATES 1976	ESTIMATES 1977
DEPARTMENT OF LABOR, TOTAL.....	25.4	30.1	34.2	25.4	30.1	34.2
BUREAU OF LABOR STATISTICS.....	1.8	1.4	1.7	1.8	1.4	1.7
EMPLOYMENT AND TRAINING ADMINISTRATION.....	15.5	15.8	15.8	15.5	15.8	15.8
EMPLOYMENT STANDARDS ADMINISTRATION.....	3.2	5.4	5.5	3.2	5.4	5.5
LABOR-MANAGEMENT SERVICES ADMINISTRATION.....	.8	2.8	2.8	.8	2.8	2.8
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.....	2.0	2.3	6.3	2.0	2.3	6.3
OFFICE OF THE SECRETARY.....	2.0	2.4	2.2	2.0	2.4	2.2
DEPARTMENT OF STATE, TOTAL.....	27.9	31.5	33.4	28.4	24.9	26.6
DEPARTMENTAL FUNDS.....	1.2	1.5	1.5	1.2	1.5	1.5
AGENCY FOR INTERNATIONAL DEVELOPMENT.....	26.7	30.0	31.9	27.1	23.4	25.0
DEPARTMENT OF TRANSPORTATION, TOTAL.....	311.6	372.3	351.8	324.5	367.2	333.9
FEDERAL AVIATION ADMINISTRATION.....	105.6	101.3	109.2	110.9	114.0	107.5
FEDERAL HIGHWAY ADMINISTRATION.....	44.7	47.0	40.8	26.4	54.3	42.0
FEDERAL RAILROAD ADMINISTRATION.....	32.4	68.6	42.8	42.0	46.2	33.8
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION.....	34.0	49.2	42.5	36.2	46.6	40.8
OFFICE OF THE SECRETARY.....	31.3	33.7	29.9	34.5	34.1	29.1
UNITED STATES COAST GUARD.....	15.9	17.9	18.3	15.5	17.9	17.9
URBAN MASS TRANSPORTATION ADMINISTRATION.....	47.7	54.7	68.3	59.1	54.1	62.9
DEPARTMENT OF THE TREASURY, TOTAL.....	1.7	1.8	1.6	1.7	1.8	1.6
BUREAU OF ENGRAVING AND PRINTING.....	1.7	1.8	1.6	1.7	1.8	1.6
OTHER AGENCIES						
ACTION.....	.2	.4	.1	*	.5	*
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS.....	1.2	1.3	1.4	1.1	1.4	1.4
CIVIL AERONAUTICS BOARD.....	.4	.5	.5	.4	.5	.5
CIVIL SERVICE COMMISSION.....	4.4	4.7	3.9	4.4	4.7	3.9
COMMUNITY SERVICES ADMINISTRATION.....	48.0	39.0	39.0	49.4	39.0	39.0
CONSUMER PRODUCT SAFETY COMMISSION.....	6.0	5.8	5.6	6.0	5.8	5.6
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION.....	2,072.3	2,804.0	3,279.8	1,860.3	2,396.8	3,025.6
ENVIRONMENTAL PROTECTION AGENCY.....	257.7	311.7	246.5	207.2	323.7	298.3
FEDERAL COMMUNICATIONS COMMISSION.....	1.1	2.0	1.6	.8	1.9	1.6
FEDERAL ENERGY ADMINISTRATION.....	1.3	3.0	6.1	1.0	3.3	5.6
FEDERAL HOME LOAN BANK BOARD.....	.7	.8	.8	.7	.8	.8
FEDERAL TRADE COMMISSION.....	.9	1.2	1.3	.9	1.2	1.3
GENERAL SERVICES ADMINISTRATION.....	1.8	1.2	2.8	1.7	1.4	2.8
LIBRARY OF CONGRESS.....	2.6	3.0	3.6	2.5	3.0	3.4
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.....	3,064.4	3,448.0	3,546.6	3,181.2	3,402.4	3,550.3
NATIONAL SCIENCE FOUNDATION.....	595.0	623.1	717.5	571.3	602.4	646.8
NUCLEAR REGULATORY COMMISSION.....	64.2	101.0	114.4	55.8	87.9	99.5
OFFICE OF TELECOMMUNICATIONS POLICY.....	4.1	3.1	2.7	4.1	3.1	2.7
SMALL BUSINESS ADMINISTRATION.....	.2	.6	.6	.2	.6	.6
SMITHSONIAN INSTITUTION.....	24.8	27.2	33.4	24.2	28.7	31.2
SPECIAL ACTION OFFICE FOR DRUG ABUSE PREVENTION.....	3.8	*	*	14.9	9.2	*
TENNESSEE VALLEY AUTHORITY.....	16.6	19.6	22.0	16.5	19.6	22.0
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY.....	1.0	1.6	2.3	1.0	1.6	2.3
UNITED STATES INFORMATION AGENCY.....	.1	.1	.1	.1	.1	.1
VETERANS ADMINISTRATION.....	94.8	101.3	99.6	94.8	101.3	99.6

\* INDICATES AMOUNT LESS THAN \$50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION.