Research Corporation

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George M. Stadler
Executive Vice President

March 17, 1983

The Honorable D. Bruce Merrifield
Assistant Secretary for Productivity,
Technology, and Innovation
U.S. Department of Commerce
14th and Constitution Avenue, N.W.
Washington, D.C. 20230

Dear Bruce:

Johh Schaefer, Mitchell Liftig, Don Coyne and I would like to express our thanks to you and your staff for providing us with the opportunity to discuss our plans for using R & D partnerships for university-developed technologies. We also think that some of our approaches can be modified for use with technologies developed by small businesses and/or the federal government.

We were all very impressed by the quality of the program you and your staff have put together on the use of R & D partnerships and would like to applaud your pioneering efforts.

It is our intention to submit a formal proposal to the Department of Commerce which would outline our objectives in this area and which would solicit the Department's help in identifying sources of funding in order to defray some of the costs associated with implementing a first-class program in this area. As you are probably aware, Research Corporation is a not-for-profit foundation which not only helps universities with their technology transfers but also awards grants to young university scientists. As a result of our dual activity, the financing of a new program such as we are discussing could become a burden.

We believe that a first-class effort would require that the Foundation establish a new subsidiary. This subsidiary would handle our activities involving the use of R & D partnerships, venture capital, and equity placements. We would be able to provide a wide range of services and sound advice (consultation) to an expanded group of clients (i.e. university, small business, government laboratory, government contractor, etc.) at the lowest possible rate and risk to the client.

The subsidiary's program which we would hope to develop in conjunction with the Department of Commerce would initially address three problems: the education of the client (source of technology) as to the pros/cons of R & D partnerships and other available modes of technology transfer; consultation on specific projects with prospective users of R & D partnerships and/or the actual structuring and placement of specific partnerships; and the development of a sound network of sellers (broker/dealers, investment bankers, etc.) of R & D partnerships that we have structured.

Perhaps as a first step we should organize a forum in order to share the knowledge that both your staff and the Foundation has developed. During the course of this forum or seminar, we would be able to further identify and define objectives that are of mutual interest. I think it would be most appropriate for you to organize a team of two or more staff members to meet with us in our Tucson office for several days so that we can thoroughly address all issues. A good time frame for this kind of activity might be early April. In addition, Don Coyne of our staff would be interested in interning in your program for a few days.

I believe the Foundation has available to it a unique combination of experience, talent and client base to mount a serious effort in this area of technology transfer. However, a key to success will depend upon the creation of a proper interface and working relationship between the Foundation and the Department of Commerce.

I will be looking forward to your thoughts and comments.

Very truly yours,

George M. Stadler

GMS/sk

cc: Dr. John P. Schaefer
Dr. Donald M. Coyne
Mr. A. Mitchell Liftig

cc sent 4/5: Martin Novak, Esq.
Mr. Norman Latker

I believe the Foundation has available to it a unique combina-

UNITED STATES DEPARTMENT OF COMMERCE
The Assistant Secretary for Productivity, Technology and Innovation
Washington, D.C. 20230
(202) 377-1984

MAR 09 1983

MEMORANDUM FOR Bruce Merrifield

From: Egils Milbergs

Subject: Visit of Don Coyne and George Stadler of Research Corporation

The subject individuals plan to discuss with you on March 11 (10:00 a.m.) their plans to expand Research Corporation's business. The attachments indicate that they plan to move from patent licensing to a complete patent "management" operation, including entrepreneurship, RDLP's, and even possible equity positions.

Also attached is an alphabetical list of the learning institutions with which RC has agreements.

Although some of the larger universities (eg...Stanford, Harvard, etc) have developed their own complete patent management operations, most have not. RC is, in my opinion, providing a valuable service which we should encourage. It is possible that RC may wish to explore some sort of a more formal relationship with PTI, but I can't be sure at this point. RC can also be a significant help to us in terms of leveraging our outreach/PR and RDLP's. Perhaps RC might be interested in devoting some special attention to RDLP's in its contacts with its 200 university clients.

Attachments

cc: Jack Williams
Norman Latker
Lanse Felker

COMPLETE PATENT MANAGEMENT

A New Option Under Research Corporation's Invention Administration Program

I. Introduction

Technological advancement is the key to the nation's economic recovery in the 1980s. Our universities represent the basic research establishment from which will come the intellectual seed for new industrial technology. Although economic necessity dictates that we strongly support academic researchers, an analysis by the American Association for the Advancement of Science shows a constant-dollar decline of about five percent in government support since 1980 due to inflation. At the same time, growing sophistication has placed state-of-the art instrumentation beyond the reach of all but the best-financed laboratories. Economic and technological factors are thus combining to foster closer relationships between industry and higher education.

In order to help universities meet the economic and technological challenges of the era, Research Corporation's Invention Administration Program is reorienting and expanding its technology identification transfer and administration services. These services will continue to be freely available to institutional administrators who wish to use them. A new program option--"Complete Patent Management"--will be offered

to major research universities. Under this option, Research Corporation will provide individual invention programs designed to meet the specific needs of host institutions.

II. Present Services--Selected Portfolio Management

Research Corporation currently maintains invention administration agreements with a variety of universities and other nonprofit institutions. Under these agreements, inventions may be disclosed to the Foundation at the election of the institution. Research Corporation's professional program staff evaluates the technical feasibility, patentability and commercial potential of each disclosure. A favorable evaluation leads to acceptance for administration by the Foundation, including patenting and licensing to industry in all countries where warranted. These services are provided entirely at Research Corporation's expense with no charge to the institutions or inventors.

The Foundation will continue to offer this option to nonprofit institutions. It offers a cost-effective method for most educational and nonprofit research organizations to transfer technology to the industrial sector and to realize a return. A second option for those universities heavily involved in sponsored research is outlined below.

III. New Services--Complete Patent Management

Under this new option, Research Corporation will assist a limited number of major research universities in programs that include direct commercial/industrial interaction. Each program will be designed to meet the specific needs of the client university, and will greatly extend--rather than replace--present internal invention management programs. Those now responsible for patenting and licensing at a given institution will play an integral role in tailoring an enhanced effort that will include: on-campus assistance; regular communication with faculty members; help in attracting industrial research support; and technology transfer by licensing out, venture capital and entrepreneurial techniques.

The activities that will be undertaken by the Foundation's Invention Administration Program under the Complete Patent Management option are outlined below:

1. Present a specially designed patent awareness program for the university's faculty, administration, and graduate students

2. Provide on-campus representation for regular meetings with faculty members to discuss questions concerning technology transfer, and to establish the one-to-one contacts necessary for early invention identification

III. New Services--Complete Patent Management (continued)

3. Furnish advice to both faculty and administration on various patent issues ranging from questions of patent law, to federal government policies, to areas of industrial interest (Note: Advice on such issues as patent validity and infringement will come from counsel retained by the Foundation)

4. Provide written reports for guidance on all submitted disclosures

5. Use flexible methods to achieve development and application of inventions (licensing out; development or venture capital; other entrepreneurial techniques)

6. Undertake international patenting and licensing campaigns

7. Help in attracting support for those research initiatives which appear to have commercial potential (e.g., industrial contracts/grants, venture capital, R&D tax shelters, etc.)

Responsibilities, costs and benefits under the new option:

1. The Foundation will become, for a period of five years, the exclusive licensing agent for the university (The rights granted to the Foundation will be subject to the following general restrictions: the university can veto the filing of any patent application if it deems such action not to be in the public interest; and the university can retain certain recapture rights on an invention-by-invention basis, if the Foundation's results are judged unsatisfactory under criteria to be established)

2. The Foundation will construct and fund a six-phase patent/licensing program, assuming all costs, and eliminating university expenses for internal patent programs

3. Gross royalties (all income) generated by the Foundation would be split, with the university receiving approximately 60% and the Foundation 40%

The complete patent management program mentioned above (II) includes the following six phases:

Phase I - University Research Evaluation
Phase II - Patent Awareness
Phase III - Monitoring and Consultation
Phase IV - Evaluation and Protection
Phase V - Technology Transfer
Phase VI - License Administration

Phase I - Analysis. The Foundation will make a study of the participating university, its philosophy, its faculty and staff. An analysis team will gather data and design an optimal approach for Foundation-university interaction. The team will visit for at least several days following a preliminary review of the university's organizational and policy-making structures, present research activities, most active principal investigators, past patenting/licensing activities and present

Phase I - Analysis (continued)

administrative processes for handling patent identification and reporting. During the visit, the analysis team will meet with the provost(s) and the dean(s), selected department heads, and key faculty researchers.

Using the results of the preliminary review and data gathered on campus, the analysis team will determine the university's needs, the commercial potential of ongoing research, and goals and expectations to be incorporated in an appropriate technology transfer program.

Phase II - Awareness. A program based on the results of Phase I will be offered to faculty and staff members to acquaint or reacquaint them with the requirements for technology transfer and its importance to society, the university, and to the furtherance of academic investigation. Since fostering awareness is both an important and ongoing process, some periodicity would be associated with Phase II.

Phase III - Monitoring. Continuous monitoring of the university's research programs will insure early identification of inventions by an on-campus Foundation representative with expertise in patent procedures and an understanding of the various types of technology transfer. The emphasis will be on

Phase III - Monitoring (continued)

communication and interaction. The represenative will establish personal contacts with investigators so that proper advice can be communicated and assistance rendered in timely fashion.

A second vital element in the monitoring process will be periodic campus visits by the Foundation's staff professionals to discuss technology transfer with faculty members, to answer questions on making disclosures, to help identify inventions and to report on patenting and licensing projects. These professionals will also make themselves available to university administrators to help establish the most productive methods for reviewing research and reporting invention disclosures to the Foundation and sponsoring agencies. They will also assist in furthering mutually beneficial interactions between the university and industry.

Phase IV - Evaluation. Although submitted disclosures will be evaluated on a case-by-case basis, certain basic criteria will apply in any assessment:

1. Technical Feasibility;
2. Patentability; and
3. Commercial Potential.

$M_1 = T_F \times C_F$

Phase IV - Evaluation (continued)

The fundamental question which must be answered for an invention emerging with otherwise favorable prospects is: "Can this discovery be duplicated commercially in a reliable and economical way?" The transition from laboratory discovery to marketable product is often more difficult than academic investigators realize; standards which may be unfamiliar are applied in making a determination.

The evaluation of patentability begins with an assessment of "prior art." In this process, the attorney and inventor attempt to distinguish how the invention differs from prior art so that potential patent protection can be defined. (Limited patent protection is almost always achievable. The real question is whether or not sufficient patent protection can be obtained to support a reasonable licensing program.)

With technical feasibility and patentability established, the commercial potential of the invention must be gauged. This parameter is typically the most difficult to measure particularly where the invention represents an important new breakthrough. In some cases, highly favorable evaluations and assurances of a market are rendered meaningless by the very newness of the concept, coupled with the NIH (Not Invented Here) factor.

Phase IV - Evaluation (continued)

Commercial exploitation notwithstanding, a patent application will be filed for any invention which represents a major advance in technology and for which significant patent protection appears available. Similarly, a patent will be appplied for if there is significant interest expressed by potential licensees in an invention--again, provided that reasonable patent protection can be expected. The inventor will always be involved in the decision-making process.

Also of importance are "Research Ideas" (university projects which are not quite inventions--lacking proof-of-principle, prototype development, etc.), which have rather attractive commercial potential but need development funding and/or joint industrial development before their true value can be assessed. Obviously, different criteria should be used in evaluating these opportunities. The Foundation's Complete Patent Management program is designed to help the university take advantage of these situations.

Phase V - Licensing. The first step in the actual transfer of technology is the development of a licensing strategy by a "licensing team" (the inventor is included if he desires). The following basic steps are typically carried out by the licensing team:

1. Working from the Foundation's knowledge and that of the inventor, the team establishes a list of "target" companies. The list includes companies anywhere in the world, which, in the collective judgment of the inventor and knowledgeable team members, comprise the most desirable licensees for the technology in question. The criteria for selection include an assessment of the company's developmental resources, marketing skills, existing product lines, etc.

2. The Foundation approaches high-level personal contacts in larger companies. The Foundation devotes much effort to making and maintaining such contacts and keeping them current.

Phase V - Licensing (continued)

3. To the extent that interest is generated in "target" companies, the Foundation will negotiate patent licenses or options to take licenses. Reasonable terms for licenses vary from invention to invention and are based upon such considerations as:
   a) Estimated savings (if any) that the licensee may derive from the use of the invention;
   b) Anticipated strength of the patent protection;
   c) Value of the invention to the licensee;
   d) Estimated development costs to the licensee;
   e) University investment in research and development;
   f) Industry practice; and
   g) Viable technical alternatives available to the licensee.

During the frequently protracted negotiation period, the Foundation has as its principal objective the encouragement of the broadest possible use of the technology over the life of a patent. This consideration dictates reasonableness in terms and conditions.

While the patent/licensing agreement mode remains the Foundation's primary means of technology transfer, alternate mechanisms are available under Complete

Phase V - Licensing (continued)

Patent Management. The choice of an alternate will depend upon the results of the evaluation study and the strategy developed for achieving application of an invention. In order to take advantage of venture capital and entrepreneurial approaches, the Foundation will establish an appropriate commercial subsidiary.

There are five basic transfer modes available to the Foundation:

1. Patenting and licensing out - Under this mode, the Foundation will attempt to establish patent/license agreements as the primary means of technology transfer. These agreements will be either exclusive or nonexclusive, depending upon the results of the evaluation study and the developed licensing strategy.

2. Entrepreneurship - Certain technologies, for a variety of economic and scientific reasons, lend themselves to the creation of an independent company for maximum commercial exploitation and return on investment. The establishment of a new company brings all the problems and pressures associated with new business start-ups to the already burdensome task of scientific development and technology refinement. However, with

Phase V - Licensing (continued)

2. Entrepreneurship (continued)

the addition of capital and professional skills of a proven business/product manager, chances for success are maximized.

3. Venture Capital - The Foundation will attempt to obtain funding for additional university research and development, product enhancement, and/or market entry in certain cases. The venture capitalist would receive for his participation an appropriate share of royalty income if and when the invention is commercialized. With the invention made a licensable commodity through the influx of capital, the Foundation will, in most instances, proceed with conventional licensing activities in order to place the technology in the marketplace.

4. Joint University/Industry Development - Applicable to inventions that are, in their present state, unlicensable (or are untested "Research Ideas"). Where the Foundation has identified a company which is interested in the research/product area represented by the invention, it will initiate joint

Phase V - Licensing (continued)

4. Joint University/Industry Development (continued)

university/industry arrangements aimed at the development and marketing of the university-conceived technology. These interactions could also lead to joint industry/university proposals for federal support.

5. R&D Partnerships - Certain technologies, when coupled with investigator desires, may lend themselves to this form of transfer. A single technology or package of technical expertise may, in some instances, be organized into limited partnerships wherein private and/or institutional investors will invest research and development funds for the refinement of a technology or product. Such arrangements may be made in exchange for tax deductions and shares of future royalties; other royalties are shared between the university, investigator and the Foundation.

(NOTE: Combinations of two or more of these strategies may be used for a specific development.)

Phase VI - License Administration - The Foundation will monitor the performance of licensees and other parties to a technology transfer agreement in an effort to insure that contractual obligations are fulfilled. The Foundation will follow the market trends in licensed technologies to maximize the use of its patents and to realize their full market potential.

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

FOR IMMEDIATE RELEASE
February 12, 1982

OMB 82-5
Public Affairs
395-3080

The Office of Management and Budget and its component agency, the Office of Federal Procurement Policy, have jointly issued a new circular to all government agencies carrying out the provisions of Public Law 96-517, which deals with the rights of small businesses, universities and other non-profit organizations to inventions made under research sponsored by the Government.

The new OMB Circular 124 replaces an interim directive that was issued last July to implement the 1980 legislation.

The Circular is designed to encourage innovation and the utilization of inventions arising from Government supported research and developmenmt by small businesses, universities and non-profits. It covers the disposition of the invention results from approximately $1.2 billion of grant and contract awards to small business and $5 billion to universities and non-profits each year. The Administration anticipates that this large investment coupled for the first time with a Government-wide policy of allowing the private sector the incentive of patent ownership will lead to a significant increase in the commercialization of resulting inventions.

The Circular is designed to simplify the current regulatory framework by replacing numerous separate and diverse agency regulations and procedures covering small business, universities and nonprofits with a single, Government-wide policy. As mandated by Public Law 96-517 the new Circular establishes a standard Patent Rights clause to be included in all Government grants and contracts with such organizations, which gives these inventing organizations the right to retain ownership of inventions. The Circular also requires agencies to modify exising regulations to bring them into conformity with the Circular.

To further encourage a uniform and effective application of the law, the Circular establishes the Department of Commerce as the lead agency to monitor its implementation, evaluate its effect on innovation, and serve as the clearinghouse for information regarding Government patent policy. Since the Act applies to a wide range of Government procurement and assistance activities, it is expected that the assignment of coordination functions to the Department of Commerce will help to prevent inconsistent implementation and the proliferation of new regulations.

The Circular is designed to encourage [illegible]

Small businesses should benefit because:

- More highly qualified small businesses will seek Government funded research projects since fear of losing the rights to valuable innovative concepts will no longer be a problem when dealing with the Government.

- Federally-sponsored research which results in invention and does not threaten proprietary positions will aid in restoring the vitality of small business. Without such rights many small firms could not justify the risk of further commercial development or attract private risk capital for such development.

Non-profits and universities are also benefited because:

- Patent rights are critical to university and non-profit technology transfer or patent licensing programs.

- Substantial private investment is required to further develop university invention. Patent ownership provides the incentive for the university to seek private firms to undertake the risk of development.

- In addition to improving the climate for university licensing, the Circular also stimulates increased university-industry cooperative programs by virtually eliminating industry concerns about Government claims under related research.

- Because a substantial portion of all medical research is done at universities and because of the importance of patent rights in the pharmaceutical and related industries, the Circular is critical to the development of new drugs and medical devices and procedures.

FOR ADDITIONAL INFORMATION CONTACT: Fred Dietrich, 202-395-6810

INSTITUTION LIST ALPHABETICAL

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
217	Alabama, University of	Ala	1968	1968	II	02-75 BMK
307	Alabama, University of/Birmingham	Ala	1977	1981	V	04-80 MJS
290	Alabama, University of/Huntsville	Ala	1975	1980	V	
183	Alaska, University of	Alaska	1964	1980	V	
164	Albany Medical College	NY	1963	1980	V	11-80 AB
289	Albert Einstein College of Medicine	NY	1974	1974	II	10-82 JSF
208	Alberta Sulphur Research Ltd.	Can	1967	1967	II	
236	Alberta, University of	Can	1970	1980	V	
179	Alfred University	NY	1970	1979	V	09-70 WM
150	Alton Ochsner Medical Foundation	La	1962	1980	V	10-69 HGH
053	American Heart Association	NY	1952	1981	V	05-70 HGH
036	American Red Cross	DC	1950	1981	V	10-70 HAE
035	American Society of Heating...	Ga	1950	1950	II	09-70 HAE
192	American University	DC	1965	1980	V	04-79 MJS
127	American University/Beirut	Leb	1960	1960	II	
032	Amherst College	Mass	1949	1979	V	03-71 RAB
142	Arizona State University	Ariz	1961	1980	V	12-74 RG
009	Arizona, University of	Ariz	1946	1980	V	12-74 RG
102	Arkansas, University of	Ark	1957	1980	V	
073	Associated Universities	NY	1954	1980	V	
152	Association of Universities for Res/AURA	Ariz	1962	1962	I	
244	Atlantic Industrial Research Institute	Can	1971	1980	V	
253	Auburn University	Ala	1971	1971	I	12-71 LRP
321	Augustana Research Foundation	Ill		1981	Va	
056	Baylor University	Tex	1952	1980	V	05-74 BMK
058	Beloit College	Wisc	1952	1979	V	
303	Boston College	Mass	1976	1976	II	04-80 AB
223	Boston University	Mass	1968	1980	V	04-71 RHR
231	Boston University Medical Center	Mass	1969	1980	V	10-71 RAB
250	Bowdoin College	Me	1971	1979	V	09-71 MS
295	Brandeis University	Mass	1975	1980	V	
099	Brigham Young University	Utah	1957	1980	V	09-71 WM
239	British Columbia, University of	Can	1970	1970	I	11-71 HGH
207	Bucknell University	Pa	1967	1979	V	
096	Butler University	Ind	1957	1979	V	06-74 RAB
281	California State Univ., L. A. Fndn.	Calif	1973	1980	V	09-70 MJS
219	California State Univ./Long Beach	Calif	1968	1980	V	05-72 LRP
245	Calvin College	Mich	1971	1971	II	12-70 RHR
141	Carnegie-Mellon University	Pa	1961	1980	V	05-81 MJS
170	Carroll College	Wisc	1963	1980	V	
193	Carver Research Foundation/Tuskegee	Ala	1965	1981	V	03-71 HAE
213	Case Western Reserve University	Ohio	1968	1980	V	08-76 TMN
252	Central Florida, University of	Fla	1971	1981	V	12-71 RHR

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
)88	Chicago, University of	Ill	1956	1980	V	07-74 RAB
123	Chile, University of	Chile	1960	1960	I	
114	Cincinnati, University of	Ohio	1959	1979	V	11-79 TMN
187	City College Fund	NY	1965	1965	I	01-71 RAB
196	Clark University	Mass	1966	1979	V	03-71 RHR
074	Clarkson College of Technology	NY	1954	1980	V	01-69 FMS
161	Clemson University	SC	1963	1963	I	12-70 BMK
188	Cleveland Clinic Foundation	Ohio	1965	1965	II	12-74 RHR
198	Cleveland State University	Ohio	1966	1966	II	12-74 RHR
151	Colorado School of Mines	Colo	1962	1962	I	04-72 RAB
044	Colorado State University	Colo	1950	1980	V	06-74 RAB
108	Colorado, University of	Colo	1958	1980	V	06-74 RAB
084	Connecticut, University of	Conn	1954	1982	II	03-75 RMW
010	Cornell University	NY	1947	1979	IV	10-79 HGH
260	Council on Library Resources	DC	1971	1971	I	12-71 RHR
195	Covenant College	Tenn	1966	1966	I	08-70 HAE
267	Dalhousie University	Can	1972	1980	V	07-71 WM
149	Dartmouth College	NH	1962	1973	II	12-71 WM
113	Dayton, University of	Ohio	1959	1981	V	10-71 BMK
243	Delaware, University of	Del	1971	1981	V	05-72 HGH
103	Denver, University of	Colo	1957	1980	V	04-72 RAB
050	Detroit, University of	Mich	1951	1951	I	01-72 JSF
222	Drexel University	Pa	1968	1979	II	03-80 RMW
047	Duke University	NC	1951	1980	V	10-78 RMW
!30	Duquesne University	Pa	1969	1980	V	02-71 HAE
209	Eastern New Mexico University	NM	1967	1981	V	06-71 BMK
225	Emory University	Ga	1969	1979	V	03-81 JSF
191	Fairleigh Dickinson University	NJ	1965	1965	I	
318	Fight for Sight, Inc.	NY	1981	1981	Va	
273	Florida Institute of Technology	Fla	1973	1980	V	
061	Florida State University	Fla	1953	1980	V	06-79 RMW
042	Florida, University of	Fla	1950	1950	I	02-79 BMK
087	Fordham University	NY	1955	1980	V	
215	Franklin Research Center	Pa	1968	1968	II	11-78 HGH
214	Franklin and Marshall College	Pa	1968	1979	V	
298	Fred Hutchinson Cancer Research Center	Wash	1976	1976	II	
323	Friends University	Kan	1981	1981	Va	
076	George Washington University	DC	1954	1980	V	04-81 MJS
218	Georgetown University	DC	1968	1978	III	04-82 HGH
325	Georgia State University	Ga	1981	1981	Va	
091S	Georgia, University of	Ga	1956	1956	I	11-76 BMK
094	Grinnell College	Iowa	1956	1956	II	05-71 RG
264	Guelph, University of	Can	1972	1980	V	11-71 RHR
270	Guthrie Foundation for Medical Research	Pa	1972	1980	V	

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
122	Hahnemann Medical College	Pa	1960	1980	V	
173	Hartford Graduate Center, The	Conn	1964	1976	II	
085	Hartford, University of	Conn	1955	1955	I	
308	Harvey Mudd College	Calif	1978	1978	III	
280	Health Research, Inc.	NY	1973	1973	I	
309	Henry Ford Hospital	Mich	1978	1978	III	
205	Hofstra University	NY	1967	1979	V	
069S	Houston, University of	Tex	1954	1966	II	03-78 BMK
266	HumRRO (Human Resources Research)	Va	1972	1972	I	10-73 RMW
139	Idaho, Research Foundation, Inc.	Ida	1961	1980	V	01-80 MJS
279	Illinois Benedictine College	Ill	1973	1973	II	04-74 MJS
327	Illinois Institute of Technology	Ill	1982	1982	Va	
137	Indiana University Foundation	Ind	1961	1980	V	06-74 RAB
305	International Ctr. of Insect Phy. & Eco	Kenya	1977	1977	II	
226	Jackson Laboratory	Me	1969	1969	II	08-71 WM
232	Japan Engineering Development	Japan	1970	1970	II	05-75 HGH
147	Jefferson Medical College	Pa	1962	1962	II	07-70 RMW
275	Johns Hopkins University	Md	1973	1980	V	10-80 RMW
018	Johns Hopkins University (APL)	Md	1969	1969	II	05-73 JSF
301	Jordan, University of	Jord	1976	1976	II	
024	Kansas State University Res Found	Kan	1948	1980	V	04-71 HAE
184	Kansas, University of, Endowment Assn.	Kan	1964	1964	I	04-71 HAE
?29	Kent State University	Ohio	1969	1969	II	05-73 RHR
171	Lafayette College	Pa	1964	1979	V	10-70 JSF
282	Lake Forest College	Ill	1974	1974	II	04-75 RAB
329	Laval,Universite	Can	1982	1982	Va	
276	Lawrence University	Wisc	1973	1980	V	
194	Lehigh University	Pa	1966	1966	I	10-74 MJS
059	Linfield College	Ore	1953	1979	V	
093	Linfield Research Institute	Ore	1956	1980	V	
082	Louisiana State University	La	1955	1980	V	02-81 TMN
097	Louisiana Tech University	La	1957	1980	V	03-74 BMK
242	Louisville Foundation, University of	Ky	1971	1978	I	10-81 JSF
* 313	Lovelace Medical Center	NM	1979	1979	V	
237	Lowell, University of	Mass	1970	1970	II	01-72 RAB
104	Loyola University/Chicago	Ill	1957	1980	V	04-73 WM
169	Loyola University/New Orleans	La	1963	1980	V	04-73 WM
121	Maine, University of	Me	1960	1960	I	04-79 TMN
328	Manitoba, University of	Can	1982	1982	Va	
320	Mankind Research Foundation	Md	1981	1981	Va	

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT ORIG	AGREMNT NOW	DATES FORM	LAST VISIT
322	Marquette University	Wis	1981	1981	Va	
125	Maryland, University of	Md	1960	1960	I	10-80 RMW
120	Massachusetts, University of	Mass	1960	1960	I	05-82 BMK
041	Mayo Foundation	Minn	1972	1977	II	10-79 RMW
200	McGill University	Can	1966	1966	I	05-81 TMN
257	McMaster University	Can	1971	1980	V	12-70 WM
300	Medical Research Institute,SanFrancisco	Calif	1976	1976	II	
268	Memorial Hospital for Cancer	NY	1972	1972	II	09-78 RHR
302	Memorial University of Newfoundland	Can	1976	1980	V	
312	Memphis State University	Tenn	1979	1979	IV	
019	Metropolitan Museum of Art	NY	1948	1980	V	
051	Miami, University of	Fla	1966	1980	V	09-81 HGH
285	Michael Reese Hospital & Medical Center	Ill	1974	1974	II	
271S	Michigan Macromolecular Institute	Mich	1973	1977	I	
039	Michigan State University	Mich	1950	1950	I	11-82 RMW
031	Michigan, University of	Mich	1959	1979	V	04-77 RG
022	Mills College	Ca		1980	Va	
317	Minnesota, University of	Minn	1980	1980	Va	
146	Mississippi State University	Miss	1962	1980	V	04-71 HAE
287	Mississippi, University of	Miss	1974	1974	II	
046	Montana State Univ., Endow. Res. Fndn.	Mont	1951	1951	I	01-74 RG
248	Montana, University of	Mont	1971	1971	I	
098	Montefiore Hospital	NY	1957	1981	V	10-81 AB
315	Mote Marine Laboratory	Fla	1980	1980	Va	
197	National Biomedical Research Assn.	DC	1966	1966	II	05-69 RMW
202	National Council to Combat Blindness	NY	1966	1966	II	
185	National Multiple Schlerosis Society	NY	1965	1965	II	
118	National Research Dev. Corp./India	India	1959	1959	II	
177	National Research Dev. Corp./Gr. Br.	GB	1964	1964	Sp	06-70 JSF
174	Nebraska Game Forest Com	Neb	1964	1964	I	
180	Nebraska Wesleyan University	Neb	1964	1980	V	05-71 RG
015	Nebraska, University of	Neb	1947	1981	V	04-79 MJS
211	Nevada, University of	Nev	1967	1980	V	10-71 FMS
251	New Brunswick, University of	Can	1971	1971	I	12-70 WM
110	New England Institute	Conn	1959	1959	II	08-71 JSF
020	New Hampshire, University of	NH	1960	1978	III	08-71 MS
272	New Jersey Univer. of Med/Dent	NJ	1973	1973	II	10-82 MJS
132	New Jersey Institute of Technology	NJ	1961	1961	I	01-72 RM
178	New Mexico Highlands University	NM	1964	1964	I	03-73 RG
145	New Mexico State University	NM	1962	1962	I	03-73 RG
259	New Mexico Technical Research Fndn.	NM	1971	1980	V	03-73 RG
115	New Mexico, University of	NM	1959	1980	V	03-73 RG
297	New York Blood Center	NY	1976	1976	II	01-80 AB
314	New York Botanical Garden	NY	1979	1979	V	

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT ORIG	AGREMNT NOW	DATES FORM	LAST VISIT
306	New York City Health Services Admin.	NY	1977	1977	II	
224	New York Medical College	NY	1968	1968	II	10-78 RMW
278	New York State Department of Health	NY	1973	1973	I	07-82 RWP
* 034	New York University	NY	1957	1957	II	09-80JSF
201	New York/SUNY/Albany	NY	1966	1966		06-69 RHR
201	New York/SUNY/Binghamton	NY	1966	1966		11-71 RHR
201	New York/SUNY/Buffalo	NY	1966	1966		10-70 MJS
201	New York/SUNY/Downstate	NY	1966	1966		07-70 RHR
201	New York/SUNY/GHQ	NY	1966	1966	I	09-77 JSF
201	New York/SUNY/Stony Brook	NY	1966	1966		02-73 RHR
201	New York/SUNY/Upstate Medical	NY	1966	1966		05-75 RHR
212S	New York/SUNY/Research Foundation	NY	1967	1967	I	05-76 JSF
227	Niagara University	NY	1969	1980	V	10-70 MJS
078B	North Carolina State University	NC	1954	1954	I	07-81 HGH
078A	North Carolina, University of	NC	1954	1954	I	08-78 BMK
078C	North Carolina, University of/Greens	NC	1954	1954	I	02-71 RAB
246	North Dakota State University	ND	1971	1980	V	12-70 RAB
136	North Dakota, University of/Alumni	ND	1961	1961	II	10-70 RAB
240	North Dakota, University of	ND	1970	1981	V	12-70 RAB
052S	Northeastern University	Mass	1952	1968	I	03-70 JSF
017	Northwestern University	Ill	1951	1981	V	07-74 RAB
095	Norwich University	Vt	1957	1979	V	02-70 HGH
311	Notre Dame, University of	Ind	1979	1979	IV	09-79 RMW
155	Nova Scotia Research Foundation	Can	1962	1962	I	11-70 MS
249	Oakland University	Mich	1971	1971	II	02-71 FMS
158	Oberlin College	Ohio	1963	1979	V	
105	Occidental College	Calif	1957	1979	V	09-70 MJS
134	Ohio University	Ohio	1961	1981	V	05-70 RHR
112	Oklahoma Medical Research Foundation	Okla	1959	1981	V	11-73 RG
126	Oklahoma State University	Okla	1960	1981	V	09-82 MJS
029S	Oklahoma, University of	Okla	1958	1974	II	09-82 MJS
324	Old Dominion Univer. Research Foundn.	Va	1981	1981	Va	
172	Oregon College of Education	Ore	1964	1964	II	07-70 MS
165	Oregon Institute of Technology	Ore	1963	1963	II	
296	Oregon Medical Research Foundation	Ore	1975	1975	I	04-77 BMK
063	Oregon State University	Ore	1953	1953	III	11-80 JSF
138	Oregon, University Health Science Ctr	Ore	1961	1975	II	07-70 WM
064	Oregon, University of	Ore	1953	1953	II	11-80 JSF
228	Pacific Northwest Research Foundation	Wash	1969	1969	I	01-74 RG
070S	Pennsylvania State University	Pa	1954	1975	I	09-82 RMW
066	Pennsylvania, University of	Pa	1953	1981	V	05-78 RMW
319	Petroleum & Minerals, Univ. of	S.Arab		1981	Va	
135	Pittsburgh, University of	Pa	1961	1961	I	10-74 JSF

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
030	Polytechnic Institute of New York	NY	1950	1950	II	05-76 RG
247	Portland State University	Ore	1971	1971	II	07-70 MS
002	Princeton University	NJ	1938	1975	I	06-80 AB
080	Puget Sound, University of	Wash	1955	1955	I	11-71 HGH
* 083	Purdue Research Foundation	Ind	1955	1955	II	09-71 RAB
071	Rand Corporation	Calif	1954	1981	V	06-73 JSF
008	Reed College	Ore	1967	1979	V	
258	Rehabilitation Institute	Mich	1971	1971	II	
128S	Rensselaer Polytechnic Institute	NY	1960	1981	V	02-81 MJS
203	Rice University, William Marsh	Tex	1966	1979	V	04-74 RG
326	Richmond, University of	Va	1982	1982	Va	
291	Rider College	NJ	1975	1981	V	
060	Rochester, University of	NY	1953	1953	I	10-81 MJS
262	Rockefeller University	NY	1972	1972	I	11-81 AB
186	Roosevelt University	Ill	1965	1965	II	
140	Rose-Hulman Institute of Technology	Ind	1961	1961	I	06-71 RAB
157	Rutgers, The State University	NJ	1963	1963	I	06-82 AB
199	San Jose State University	Calif	1966	1966	I	02-70 BMK
162	Seattle University	Wash	1963	1963	I	01-79 TMN
007	Sloan-Kettering Institute	NY	1946	1963	II	06-79 TMN
283	South Carolina, Medical University of	SC	1974	1974	II	09-81 TMN
221	South Carolina, University of	SC	1968	1968	II	06-71 RAB
156	South Dakota School of Mines	SD	1962	1962	I	10-70 RAB
116	South Dakota State University	SD	1959	1981	V	10-70 RAB
256	South Dakota, University of	SD	1971	1981	V	12-70 RAB
045	Southern California, University of	Calif	1951	1981	V	06-73 JSF
163	Southern Illinois University	Ill	1963	1963	II	04-79 MJS
284	Southern Methodist University	Tex	1974	1981	V	
274	Southern Mississippi, University of	Miss	1973	1981	V	10-73 RAB
160	Southwestern Louisiana, University of	La	1963	1981	V	03-74 BMK
235	Spring Hill College	Ala	1970	1981	V	07-70 MS
090	St. Edward's University	Tex	1956	1981	V	03-71 BMK
055	St. John's University	NY	1952	1981	V	02-72 RM
143	St. Louis University	Mo	1962	1962	II	06-71 MJS
168	St. Luke's-Roosevelt Hospital Center	NY	1963	1963	I	
062	Stanford University	Calif	1953	1956	I	07-72 RM
077	Stevens Institute of Technology	NJ	1954	1954	I	04-79 AB
175	Sulphur Institute	DC	1964	1981	V	
124	Syracuse Research Corporation	NY	1960	1981	V	08-70 RHR
153	Syracuse University	NY	1962	1962	I	10-79 MJS
166	Teaching-Learning Research Center	Ore	1963	1963	II	
265	Temple University	Pa	1972	1980	V	05-82 AB
304	Tennessee, University of, Research Corp	Tenn	1976	1981	V	10-81 JSF

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
072	Texas A & M Research Foundation	Tex	1954	1981	V	04-74 RG
261	Texas Tech University	Tex	1972	1982	V	03-79 RG
190	Texas, University of	Tex	1965	1981	V	03-80 HGH
294	Toledo, University of	Ohio	1975	1981	V	
220	Trinity University	Tex	1968	1968	I	03-71 BMK
054	Tufts University	Mass	1952	1980	V	08-82 HGH
206	Tulane University	La	1967	1978	III	02-81 TMN
023	Tulsa, University of	Okla	1965	1981	V	04-71 RG
100	Union College	NY	1957	1981	V	
129	Unisearch, Ltd.	Austr	1960	1981	V	
182	University Corp. for Atmospheric Res.	Colo	1964	1964	I	
133	Utah State University	Utah	1961	1961	I	09-71 WM
026	Utah, University of	Utah	1949	1949	I	09-71 WM
238	VMI Research Laboratories	Va	1970	1981	V	05-71 RAB
204	Vanderbilt University	Tenn	1966	1966	II	09-81 JSF
075S	Vermont, University of	Vt	1954	1979	V	03-71 HGH
269	Victoria, University of	Can	1972	1972	II	
292	Virginia Commonwealth University	Va	1975	1981	V	02-81 JSF
* 106	Virginia Institute for Scientific Res.	Va	1958	1981	V	03-71 BAB
068S	Virginia Polytechnic Inst. & State Univ.	Va	1954	1971	II	02-77 RG
131	Virginia, University of	Va	1961	1961	I	03-77 HGH
081	Washington State University	Wash	1954	1981	V	02-76 RG
176	Washington and Lee University	Va	1964	1981	V	01-74 RG
234S	Washington, University of	Wash	1970	1981	V	04-81 RG
241	Waterloo, University of	Can	1970	1981	V	09-70 RMW
101	Wayne State University	Mich	1957	1957	I	09-72 JSF
040	Wesleyan University	Conn	1950	1980	V	03-71 RG
065	West Virginia University	WVa	1953	1978	I	05-81 MJS
263	Western Illinois University	Ill	1972	1972	II	
216	Western Michigan University	Mich	1968	1981	V	02-71 FMS
288	Western New England College	Mass	1974	1981	V	
117	Winona State University	Minn	1959	1959	I	
316	Woods Hole Oceanographic Institute	Mass	1980	1980	Va	04-80 JSF
255	Worcester Foundation/Experimental Biol.	Mass	1971	1981	V	04-80 AB
277	Worcester Polytechnic Institute	Mass	1973	1981	V	03-71 RHR
130	World Sugar Research Organization	GB	1979	1979	I	07-76 WM
057	Wyoming, University of	Wyo	1952	1980	V	08-70 RAB
210	Xavier University	Ohio	1967	1981	V	10-71 BMK
067S	Yale University	Conn	1954	1974	II	07-81 TMN
310	Youngstown State University	Ohio	1979	1979	III	

* Agreement terminated in 1982

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INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
217	Alabama, University of	Ala	1968	1968	II	02-75 BMK
307	Alabama, University of/Birmingham	Ala	1977	1981	V	04-80 MJS
290	Alabama, University of/Huntsville	Ala	1975	1980	V	
183	Alaska, University of	Alaska	1964	1980	V	
164	Albany Medical College	NY	1963	1980	V	11-80 AB
289	Albert Einstein College of Medicine	NY	1974	1974	II	10-82 JSF
208	Alberta Sulphur Research Ltd.	Can	1967	1967	II	
236	Alberta, University of	Can	1970	1980	V	
179	Alfred University	NY	1970	1979	V	09-70 WM
150	Alton Ochsner Medical Foundation	La	1962	1980	V	10-69 HGH
053	American Heart Association	NY	1952	1981	V	05-70 HGH
036	American Red Cross	DC	1950	1981	V	10-70 HAE
035	American Society of Heating...	Ga	1950	1950	II	09-70 HAE
192	American University	DC	1965	1980	V	04-79 MJS
127	American University/Beirut	Leb	1960	1960	II	
032	Amherst College	Mass	1949	1979	V	03-71 RAB
142	Arizona State University	Ariz	1961	1980	V	12-74 RG
009	Arizona, University of	Ariz	1946	1980	V	12-74 RG
102	Arkansas, University of	Ark	1957	1980	V	
073	Associated Universities	NY	1954	1980	V	
152	Association of Universities for Res/AURA	Ariz	1962	1962	I	
244	Atlantic Industrial Research Institute	Can	1971	1980	V	
253	Auburn University	Ala	1971	1971	I	12-71 LRP
321	Augustana Research Foundation	Ill		1981	Va	
056	Baylor University	Tex	1952	1980	V	05-74 BMK
058	Beloit College	Wisc	1952	1979	V	
303	Boston College	Mass	1976	1976	II	04-80 AB
223	Boston University	Mass	1968	1980	V	04-71 RHR
231	Boston University Medical Center	Mass	1969	1980	V	10-71 RAB
250	Bowdoin College	Me	1971	1979	V	09-71 MS
295	Brandeis University	Mass	1975	1980	V	
099	Brigham Young University	Utah	1957	1980	V	09-71 WM
239	British Columbia, University of	Can	1970	1970	I	11-71 HGH
207	Bucknell University	Pa	1967	1979	V	
096	Butler University	Ind	1957	1979	V	06-74 RAB
281	California State Univ., L. A. Fndn.	Calif	1973	1980	V	09-70 MJS
219	California State Univ./Long Beach	Calif	1968	1980	V	05-72 LRP
245	Calvin College	Mich	1971	1971	II	12-70 RHR
141	Carnegie-Mellon University	Pa	1961	1980	V	05-81 MJS
170	Carroll College	Wisc	1963	1980	V	
193	Carver Research Foundation/Tuskegee	Ala	1965	1981	V	03-71 HAE
213	Case Western Reserve University	Ohio	1968	1980	V	08-76 TMN
252	Central Florida, University of	Fla	1971	1981	V	12-71 RHR

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT	
)88	Chicago, University of	Ill	1956	1980	V	07-74	RAB
123	Chile, University of	Chile	1960	1960	I		
114	Cincinnati, University of	Ohio	1959	1979	V	11-79	TMN
187	City College Fund	NY	1965	1965	I	01-71	RAB
196	Clark University	Mass	1966	1979	V	03-71	RHR
074	Clarkson College of Technology	NY	1954	1980	V	01-69	FMS
161	Clemson University	SC	1963	1963	I	12-70	BMK
188	Cleveland Clinic Foundation	Ohio	1965	1965	II	12-74	RHR
198	Cleveland State University	Ohio	1966	1966	II	12-74	RHR
151	Colorado School of Mines	Colo	1962	1962	I	04-72	RAB
044	Colorado State University	Colo	1950	1980	V	06-74	RAB
108	Colorado, University of	Colo	1958	1980	V	06-74	RAB
084	Connecticut, University of	Conn	1954	1982	II	03-75	RMW
010	Cornell University	NY	1947	1979	IV	10-79	HGH
260	Council on Library Resources	DC	1971	1971	I	12-71	RHR
195	Covenant College	Tenn	1966	1966	I	08-70	HAE
267	Dalhousie University	Can	1972	1980	V	07-71	WM
149	Dartmouth College	NH	1962	1973	II	12-71	WM
113	Dayton, University of	Ohio	1959	1981	V	10-71	BMK
243	Delaware, University of	Del	1971	1981	V	05-72	HGH
103	Denver, University of	Colo	1957	1980	V	04-72	RAB
050	Detroit, University of	Mich	1951	1951	I	01-72	JSF
222	Drexel University	Pa	1968	1979	II	03-80	RMW
047	Duke University	NC	1951	1980	V	10-78	RMW
)30	Duquesne University	Pa	1969	1980	V	02-71	HAE
209	Eastern New Mexico University	NM	1967	1981	V	06-71	BMK
225	Emory University	Ga	1969	1979	V	03-81	JSF
191	Fairleigh Dickinson University	NJ	1965	1965	I		
318	Fight for Sight, Inc.	NY	1981	1981	Va		
273	Florida Institute of Technology	Fla	1973	1980	V		
061	Florida State University	Fla	1953	1980	V	06-79	RMW
042	Florida, University of	Fla	1950	1950	I	02-79	BMK
087	Fordham University	NY	1955	1980	V		
215	Franklin Research Center	Pa	1968	1968	II	11-78	HGH
214	Franklin and Marshall College	Pa	1968	1979	V		
298	Fred Hutchinson Cancer Research Center	Wash	1976	1976	II		
323	Friends University	Kan	1981	1981	Va		
076	George Washington University	DC	1954	1980	V	04-81	MJS
218	Georgetown University	DC	1968	1978	III	04-82	HGH
325	Georgia State University	Ga	1981	1981	Va		
091S	Georgia, University of	Ga	1956	1956	I	11-76	BMK
094	Grinnell College	Iowa	1956	1956	II	05-71	RG
264	Guelph, University of	Can	1972	1980	V	11-71	RHR
270	Guthrie Foundation for Medical Research	Pa	1972	1980	V		

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122	Hahnemann Medical College	Pa	1960	1980	V	
173	Hartford Graduate Center, The	Conn	1964	1976	II	
085	Hartford, University of	Conn	1955	1955	I	
308	Harvey Mudd College	Calif	1978	1978	III	
280	Health Research, Inc.	NY	1973	1973	I	
309	Henry Ford Hospital	Mich	1978	1978	III	
205	Hofstra University	NY	1967	1979	V	
069S	Houston, University of	Tex	1954	1966	II	03-78 BMK
266	HumRRO (Human Resources Research)	Va	1972	1972	I	10-73 RMW
139	Idaho, Research Foundation, Inc.	Ida	1961	1980	V	01-80 MJS
279	Illinois Benedictine College	Ill	1973	1973	II	04-74 MJS
327	Illinois Institute of Technology	Ill	1982	1982	Va	
137	Indiana University Foundation	Ind	1961	1980	V	06-74 RAB
305	International Ctr. of Insect Phy. & Eco	Kenya	1977	1977	II	
226	Jackson Laboratory	Me	1969	1969	II	08-71 WM
232	Japan Engineering Development	Japan	1970	1970	II	05-75 HGH
147	Jefferson Medical College	Pa	1962	1962	II	07-70 RMW
275	Johns Hopkins University	Md	1973	1980	V	10-80 RMW
018	Johns Hopkins University (APL)	Md	1969	1969	II	05-73 JSF
301	Jordan, University of	Jord	1976	1976	II	
024	Kansas State University Res Found	Kan	1948	1980	V	04-71 HAE
184	Kansas, University of, Endowment Assn.	Kan	1964	1964	I	04-71 HAE
229	Kent State University	Ohio	1969	1969	II	05-73 RHR
171	Lafayette College	Pa	1964	1979	V	10-70 JSF
282	Lake Forest College	Ill	1974	1974	II	04-75 RAB
329	Laval,Universite	Can	1982	1982	Va	
276	Lawrence University	Wisc	1973	1980	V	
194	Lehigh University	Pa	1966	1966	I	10-74 MJS
059	Linfield College	Ore	1953	1979	V	
093	Linfield Research Institute	Ore	1956	1980	V	
082	Louisiana State University	La	1955	1980	V	02-81 TMN
097	Louisiana Tech University	La	1957	1980	V	03-74 BMK
242	Louisville Foundation, University of	Ky	1971	1978	I	10-81 JSF
* 313	Lovelace Medical Center	NM	1979	1979	V	
237	Lowell, University of	Mass	1970	1970	II	01-72 RAB
104	Loyola University/Chicago	Ill	1957	1980	V	04-73 WM
169	Loyola University/New Orleans	La	1963	1980	V	04-73 WM
121	Maine, University of	Me	1960	1960	I	04-79 TMN
328	Manitoba, University of	Can	1982	1982	Va	
320	Mankind Research Foundation	Md	1981	1981	Va	

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322	Marquette University	Wis	1981	1981	Va	
125	Maryland, University of	Md	1960	1960	I	10-80 RMW
120	Massachusetts, University of	Mass	1960	1960	I	05-82 BMK
041	Mayo Foundation	Minn	1972	1977	II	10-79 RMW
200	McGill University	Can	1966	1966	I	05-81 TMN
257	McMaster University	Can	1971	1980	V	12-70 WM
300	Medical Research Institute,SanFrancisco	Calif	1976	1976	II	
268	Memorial Hospital for Cancer	NY	1972	1972	II	09-78 RHR
302	Memorial University of Newfoundland	Can	1976	1980	V	
312	Memphis State University	Tenn	1979	1979	IV	
019	Metropolitan Museum of Art	NY	1948	1980	V	
051	Miami, University of	Fla	1966	1980	V	09-81 HGH
285	Michael Reese Hospital & Medical Center	Ill	1974	1974	II	
271S	Michigan Macromolecular Institute	Mich	1973	1977	I	
039	Michigan State University	Mich	1950	1950	I	11-82 RMW
031	Michigan, University of	Mich	1959	1979	V	04-77 RG
022	Mills College	Ca		1980	Va	
317	Minnesota, University of	Minn	1980	1980	Va	
146	Mississippi State University	Miss	1962	1980	V	04-71 HAE
287	Mississippi, University of	Miss	1974	1974	II	
046	Montana State Univ., Endow. Res. Fndn.	Mont	1951	1951	I	01-74 RG
248	Montana, University of	Mont	1971	1971	I	
098	Montefiore Hospital	NY	1957	1981	V	10-81 AB
315	Mote Marine Laboratory	Fla	1980	1980	Va	
197	National Biomedical Research Assn.	DC	1966	1966	II	05-69 RMW
202	National Council to Combat Blindness	NY	1966	1966	II	
185	National Multiple Schlerosis Society	NY	1965	1965	II	
118	National Research Dev. Corp./India	India	1959	1959	II	
177	National Research Dev. Corp./Gr. Br.	GB	1964	1964	Sp	06-70 JSF
174	Nebraska Game Forest Com	Neb	1964	1964	I	
180	Nebraska Wesleyan University	Neb	1964	1980	V	05-71 RG
015	Nebraska, University of	Neb	1947	1981	V	04-79 MJS
211	Nevada, University of	Nev	1967	1980	V	10-71 FMS
251	New Brunswick, University of	Can	1971	1971	I	12-70 WM
110	New England Institute	Conn	1959	1959	II	08-71 JSF
020	New Hampshire, University of	NH	1960	1978	III	08-71 MS
272	New Jersey Univer. of Med/Dent	NJ	1973	1973	II	10-82 MJS
132	New Jersey Institute of Technology	NJ	1961	1961	I	01-72 RM
178	New Mexico Highlands University	NM	1964	1964	I	03-73 RG
145	New Mexico State University	NM	1962	1962	I	03-73 RG
259	New Mexico Technical Research Fndn.	NM	1971	1980	V	03-73 RG
115	New Mexico, University of	NM	1959	1980	V	03-73 RG
297	New York Blood Center	NY	1976	1976	II	01-80 AB
314	New York Botanical Garden	NY	1979	1979	V	

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INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT ORIG	AGREMNT NOW	DATES FORM	LAST VISIT
306	New York City Health Services Admin.	NY	1977	1977	II	
224	New York Medical College	NY	1968	1968	II	10-78 RMW
278	New York State Department of Health	NY	1973	1973	I	07-82 RWP
* 034	New York University	NY	1957	1957	II	09-80JSF
201	New York/SUNY/Albany	NY	1966	1966		06-69 RHR
201	New York/SUNY/Binghamton	NY	1966	1966		11-71 RHR
201	New York/SUNY/Buffalo	NY	1966	1966		10-70 MJS
201	New York/SUNY/Downstate	NY	1966	1966		07-70 RHR
201	New York/SUNY/GHQ	NY	1966	1966	I	09-77 JSF
201	New York/SUNY/Stony Brook	NY	1966	1966		02-73 RHR
201	New York/SUNY/Upstate Medical	NY	1966	1966		05-75 RHR
212S	New York/SUNY/Research Foundation	NY	1967	1967	I	05-76 JSF
227	Niagara University	NY	1969	1980	V	10-70 MJS
078B	North Carolina State University	NC	1954	1954	I	07-81 HGH
078A	North Carolina, University of	NC	1954	1954	I	08-78 BMK
078C	North Carolina, University of/Greens	NC	1954	1954	I	02-71 RAB
246	North Dakota State University	ND	1971	1980	V	12-70 RAB
136	North Dakota, University of/Alumni	ND	1961	1961	II	10-70 RAB
240	North Dakota, University of	ND	1970	1981	V	12-70 RAB
052S	Northeastern University	Mass	1952	1968	I	03-70 JSF
017	Northwestern University	Ill	1951	1981	V	07-74 RAB
095	Norwich University	Vt	1957	1979	V	02-70 HGH
311	Notre Dame, University of	Ind	1979	1979	IV	09-79 RMW
155	Nova Scotia Research Foundation	Can	1962	1962	I	11-70 MS
249	Oakland University	Mich	1971	1971	II	02-71 FMS
158	Oberlin College	Ohio	1963	1979	V	
105	Occidental College	Calif	1957	1979	V	09-70 MJS
134	Ohio University	Ohio	1961	1981	V	05-70 RHR
112	Oklahoma Medical Research Foundation	Okla	1959	1981	V	11-73 RG
126	Oklahoma State University	Okla	1960	1981	V	09-82 MJS
029S	Oklahoma, University of	Okla	1958	1974	II	09-82 MJS
324	Old Dominion Univer. Research Foundn.	Va	1981	1981	Va	
172	Oregon College of Education	Ore	1964	1964	II	07-70 MS
165	Oregon Institute of Technology	Ore	1963	1963	II	
296	Oregon Medical Research Foundation	Ore	1975	1975	I	04-77 BMK
063	Oregon State University	Ore	1953	1953	III	11-80 JSF
138	Oregon, University Health Science Ctr	Ore	1961	1975	II	07-70 WM
064	Oregon, University of	Ore	1953	1953	II	11-80 JSF
228	Pacific Northwest Research Foundation	Wash	1969	1969	I	01-74 RG
070S	Pennsylvania State University	Pa	1954	1975	I	09-82 RMW
066	Pennsylvania, University of	Pa	1953	1981	V	05-78 RMW
319	Petroleum & Minerals, Univ. of	S.Arab		1981	Va	
135	Pittsburgh, University of	Pa	1961	1961	I	10-74 JSF

* Agreement terminated in 1982

INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT DATES ORIG	NOW	FORM	LAST VISIT
030	Polytechnic Institute of New York	NY	1950	1950	II	05-76 RG
247	Portland State University	Ore	1971	1971	II	07-70 MS
002	Princeton University	NJ	1938	1975	I	06-80 AB
080	Puget Sound, University of	Wash	1955	1955	I	11-71 HGH
* 083	Purdue Research Foundation	Ind	1955	1955	II	09-71 RAB
071	Rand Corporation	Calif	1954	1981	V	06-73 JSF
008	Reed College	Ore	1967	1979	V	
258	Rehabilitation Institute	Mich	1971	1971	II	
128S	Rensselaer Polytechnic Institute	NY	1960	1981	V	02-81 MJS
203	Rice University, William Marsh	Tex	1966	1979	V	04-74 RG
326	Richmond, University of	Va	1982	1982	Va	
291	Rider College	NJ	1975	1981	V	
060	Rochester, University of	NY	1953	1953	I	10-81 MJS
262	Rockefeller University	NY	1972	1972	I	11-81 AB
186	Roosevelt University	Ill	1965	1965	II	
140	Rose-Hulman Institute of Technology	Ind	1961	1961	I	06-71 RAB
157	Rutgers, The State University	NJ	1963	1963	I	06-82 AB
199	San Jose State University	Calif	1966	1966	I	02-70 BMK
162	Seattle University	Wash	1963	1963	I	01-79 TMN
007	Sloan-Kettering Institute	NY	1946	1963	II	06-79 TMN
283	South Carolina, Medical University of	SC	1974	1974	II	09-81 TMN
221	South Carolina, University of	SC	1968	1968	II	06-71 RAB
156	South Dakota School of Mines	SD	1962	1962	I	10-70 RAB
116	South Dakota State University	SD	1959	1981	V	10-70 RAB
256	South Dakota, University of	SD	1971	1981	V	12-70 RAB
045	Southern California, University of	Calif	1951	1981	V	06-73 JSF
163	Southern Illinois University	Ill	1963	1963	II	04-79 MJS
284	Southern Methodist University	Tex	1974	1981	V	
274	Southern Mississippi, University of	Miss	1973	1981	V	10-73 RAB
160	Southwestern Louisiana, University of	La	1963	1981	V	03-74 BMK
235	Spring Hill College	Ala	1970	1981	V	07-70 MS
090	St. Edward's University	Tex	1956	1981	V	03-71 BMK
055	St. John's University	NY	1952	1981	V	02-72 RM
143	St. Louis University	Mo	1962	1962	II	06-71 MJS
168	St. Luke's-Roosevelt Hospital Center	NY	1963	1963	I	
062	Stanford University	Calif	1953	1956	I	07-72 RM
077	Stevens Institute of Technology	NJ	1954	1954	I	04-79 AB
175	Sulphur Institute	DC	1964	1981	V	
124	Syracuse Research Corporation	NY	1960	1981	V	08-70 RHR
153	Syracuse University	NY	1962	1962	I	10-79 MJS
166	Teaching-Learning Research Center	Ore	1963	1963	II	
265	Temple University	Pa	1972	1980	V	05-82 AB
304	Tennessee, University of, Research Corp	Tenn	1976	1981	V	10-81 JSF

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INST. NO.	NAME OF INSTITUTION	GEOG AREA	AGREMNT ORIG	AGREMNT NOW	DATES FORM	LAST VISIT
072	Texas A & M Research Foundation	Tex	1954	1981	V	04-74 RG
261	Texas Tech University	Tex	1972	1982	V	03-79 RG
190	Texas, University of	Tex	1965	1981	V	03-80 HGH
294	Toledo, University of	Ohio	1975	1981	V	
220	Trinity University	Tex	1968	1968	I	03-71 BMK
054	Tufts University	Mass	1952	1980	V	08-82 HGH
206	Tulane University	La	1967	1978	III	02-81 TMN
023	Tulsa, University of	Okla	1965	1981	V	04-71 RG
100	Union College	NY	1957	1981	V	
129	Unisearch, Ltd.	Austr	1960	1981	V	
182	University Corp. for Atmospheric Res.	Colo	1964	1964	I	
133	Utah State University	Utah	1961	1961	I	09-71 WM
026	Utah, University of	Utah	1949	1949	I	09-71 WM
238	VMI Research Laboratories	Va	1970	1981	V	05-71 RAB
204	Vanderbilt University	Tenn	1966	1966	II	09-81 JSF
075S	Vermont, University of	Vt	1954	1979	V	03-71 HGH
269	Victoria, University of	Can	1972	1972	II	
292	Virginia Commonwealth University	Va	1975	1981	V	02-81 JSF
* 106	Virginia Institute for Scientific Res.	Va	1958	1981	V	03-71 BAB
068S	Virginia Polytechnic Inst. & State Univ.	Va	1954	1971	II	02-77 RG
131	Virginia, University of	Va	1961	1961	I	03-77 HGH
081	Washington State University	Wash	1954	1981	V	02-76 RG
176	Washington and Lee University	Va	1964	1981	V	01-74 RG
234S	Washington, University of	Wash	1970	1981	V	04-81 RG
241	Waterloo, University of	Can	1970	1981	V	09-70 RMW
101	Wayne State University	Mich	1957	1957	I	09-72 JSF
040	Wesleyan University	Conn	1950	1980	V	03-71 RG
065	West Virginia University	WVa	1953	1978	I	05-81 MJS
263	Western Illinois University	Ill	1972	1972	II	
216	Western Michigan University	Mich	1968	1981	V	02-71 FMS
288	Western New England College	Mass	1974	1981	V	
117	Winona State University	Minn	1959	1959	I	
316	Woods Hole Oceanographic Institute	Mass	1980	1980	Va	04-80 JSF
255	Worcester Foundation/Experimental Biol.	Mass	1971	1981	V	04-80 AB
277	Worcester Polytechnic Institute	Mass	1973	1981	V	03-71 RHR
130	World Sugar Research Organization	GB	1979	1979	I	07-76 WM
057	Wyoming, University of	Wyo	1952	1980	V	08-70 RAB
210	Xavier University	Ohio	1967	1981	V	10-71 BMK
067S	Yale University	Conn	1954	1974	II	07-81 TMN
310	Youngstown State University	Ohio	1979	1979	III	

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