

GIFTS  
PROCESSED NOVEMBER, DECEMBER, 1984

The university gratefully acknowledges the receipt of gifts from the donors for the purposes given below in the amounts of:

IN-KIND - TOTAL \$9,539.00 (Value)

The P.A.C.T. (Parents and Children Together) Program is designed to assist low-income families whose children are either being returned to their homes after a period of foster care or whose children are at risk of eventual foster care placement. This project is under the direction of Mrs. Dorothy L. Kispert, Director, P.A.C.T. Program, Family and Consumer Resources, Liberal Arts.	\$6,816.00 (Value)
Ms. Kathryn Moore, a bed, dinette set, chair, clothing, vacuum and various household items.	2,043.00 (Value)
Mr. and Mrs. Henry Miller, clothing, bedding, furniture, appliances and various household items.	1,800.00 (Value)
Mr. Charles Gergle, two single beds, two sofas, one loveseat, and miscellaneous household items.	350.00 (Value)
Ms. Sue McMillan, carpeting, rugs, two chairs, three lamps, and a clock-radio.	350.00 (Value)
Ms. Tammie B. Glenn, clothing, shoes and two electric razors.	300.00 (Value)
Ms. Margaret Krokker, a console television set and three wigs.	300.00 (Value)
Mr. Gerald McMahan, dishes, clothing, blankets and various household items.	250.00 (Value)
Ms. Bernice Hudak, a sofa-bed, chair and bedding.	200.00 (Value)
Mr. and Mrs. Leonard Custok, clothing.	198.00 (Value)
Ms. Beverly Anderson, clothing, curtains and toys.	160.00 (Value)
Mr. and Mrs. John Heitsch, towels, clothing, toys and various household items.	150.00 (Value)
Ms. Phyllis Oppen, a box spring and mattress and a reclining chair with ottoman.	150.00 (Value)
Ms. Josephine Aceves, a sofa.	100.00 (Value)
Ms. Leslie V. Golightly, a dresser, table and five chairs.	100.00 (Value)
Mr. and Mrs. Michael Hause, a sofa and chair.	100.00 (Value)
Mr. Hugh Riddle, a dinette set, television set, dresser and lamp.	100.00 (Value)
Ms. Patty Jackson, a baby crib.	75.00 (Value)
The Interconnection, luncheon platters for a P.A.C.T. function.	50.00 (Value)
Mr. Kenneth Eatherly, a portable dishwasher.	30.00 (Value)
Dr. Neil Kelle, a popcorn popper and toys.	10.00 (Value)

AGENDA: BOARD OF GOVERNORS MEETING - FEBRUARY 15, 1985  
SUBMITTED BY THE OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

From New York Carpet World, carpeting for soundproofing of the DRIS Studio for Radio Station WDET-FM. This gift was accepted by Ms. Caryn G. Mathes, General Manager, Radio Station WDET-FM, Community Relations, Development and Public Affairs, Administration. \$1,200.00 (Value)

From the Advertising Firm of Brewer Associates, a used Goodkin Model 5B Swivel Top Viewer for use in the Advertising Design Studio of the Department of Art and Art History. The viewer will be most useful to students in graphic design as they develop their class assignments. This gift was accepted by Professor Richard J. Bilaitis, Chairperson, Art and Art History, Liberal Arts. \$950.00 (Value)

From Mr. John R. Reed, a General Electric Air Conditioner for use by the English Department to be placed in room 428 State Hall. This gift was accepted by Professor Suzanne Ferguson, Chairperson, English, Liberal Arts. \$235.00 (Value)

From Meadow Brook Theatre, twenty tickets for the performance "The Importance of Being Earnest" to be used for promotional purposes for Radio Station WDET-FM. This gift was accepted by Ms. Caryn G. Mathes, General Manager, Radio Station WDET-FM, Community Relations, Development and Public Affairs, Administration. \$230.00 (Value)

From Assistant Professor Mable B. Sharp, Chairperson, Department of Physical Therapy, fifteen pictures for the Departmental Beautification Projects. The pictures will be hung in the laboratory hallway of the east wing and in the Department's reading room. Deputy Dean Dorothy P. Skinner, Pharmacy and Allied Health accepted the gift for the Department. \$108.00 (Value)

GRANTS  
PROCESSED NOVEMBER, 1984

Research and Instruction	\$1,658,104.00
Student Aid	375.00
	<u>\$1,658,479.00</u>

RESEARCH AND INSTRUCTION - TOTAL \$1,658,104.00

DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

GRANT RENEWAL: \$180,348.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Tche-Tsing Tchen

TITLE AND OBJECTIVE: "Biochemical Basis of the Action of ACTH and MSH." This work will deal primarily with several aspects of the mode of action of two related polypeptide hormones, ACTH and MSH on the adrenal cortex and pigment cells. This award represents the sixteenth year of support and now totals \$1,003,017.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Immunology and Microbiology, Medicine

GRANT RENEWAL: \$135,699.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Paul C. Montgomery, Chairperson

TITLE AND OBJECTIVE: "Antibody Induction and Expression in the Eye." The objective of this study is to determine the mechanisms underlying antibody responses in the eye in order to define the relationship of the ocular immune response to systemic and secretory responses. These studies are a prerequisite for employing a clinical relevant antigen. With this renewal, support now totals \$225,142.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Neurology, Medicine

GRANT RENEWAL: \$125,550.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Associate Professor Joyce A. Benjamins

TITLE AND OBJECTIVE: "Myelination: Assembly of Lipids and Proteins." The overall objective of this research is to learn how the myelin membrane is assembled. This information is central to a better understanding of the mechanisms leading to decreased myelination or demyelination resulting from insult (nutritional or hormonal imbalance during development) or from disease (genetic lysosomal defects or multiple sclerosis). This award represents the eighth year of support currently totaling \$609,089.

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AGENDA: BOARD OF GOVERNORS MEETING - FEBRUARY 15, 1985  
SUBMITTED BY THE OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Pathology, Medicine

GRANT RENEWAL: \$116,489.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Filiberto Giacomelli

TITLE AND OBJECTIVE: "Primary Myocardial Disease in the Diabetic Mouse." The overall objective of this project is to elucidate the pathogenesis of the primary myocardial disease (Cardiomyopathy) that occurs in the genetically diabetic mouse. With this renewal, support now totals \$500,896.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Anatomy, Medicine

GRANT RENEWAL: \$98,103.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Assistant Professor Edward V. Famiglietti, Jr.

TITLE AND OBJECTIVE: "Neural Architecture of Vertebrate Retina." This work examines visual mechanisms served by specific neurotransmitters, so that when it is appropriate to apply drug treatments to the eye, influencing retinal neurotransmission, a detailed understanding of the normal visual processes affected will be established. With this renewal, support now totals \$332,146.

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DONOR: U.S. Public Health Service

DEPARTMENTS/COLLEGES: Bioengineering Center, Engineering/  
Neurosurgery, Medicine

GRANT RENEWAL: \$94,527.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATORS: Professor Albert I. King and L. Murray Thomas, Chairperson

TITLE AND OBJECTIVE: "Structural and Mechanical Properties of the Spine." This research program is designed to yield significant data in the understanding of load transmission mechanisms from one vertebra to the next. It may provide a better understanding of low back pain and its correlation to disc degeneration. This award represents the tenth year of support totaling \$667,278.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

GRANT RENEWAL: \$90,136.00

PERIOD: 1/1/85 - 12/31/85

PRINCIPAL INVESTIGATOR: Associate Professor Lawrence J. Marnett

TITLE AND OBJECTIVE: "Studies on Prostaglandin Synthetase," These studies are designed to determine whether prostaglandin synthetase is important in the oxygenation of chemical carcinogens in vivo and whether this activity contributes to the initiation of tumor formation following exposure to these agents. This award represents the ninth year of support and now totals \$696,136.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

GRANT RENEWAL: \$84,579.00

PERIOD: 2/1/85 - 1/31/86

PRINCIPAL INVESTIGATOR: Assistant Professor Louis J. Romano

TITLE AND OBJECTIVE: "In Vitro Function of DNA Containing Carcinogen Adducts." The overall goal of this project is to gain an insight into the molecular mechanisms involved in carcinogenesis. Support now totals \$183,965.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Biological Sciences, Liberal Arts

GRANT: \$82,384.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Albert Siegel

TITLE AND OBJECTIVE: "Mechanism and Significance of Pseudovirion Formation." A series of experiments will be conducted to determine the possible significance of pseudovirion formation for the biology of virus infection.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Physiology, Medicine

GRANT RENEWAL: \$74,266.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Paul C. Churchill

TITLE AND OBJECTIVE: "Control of Renin Secretion." The long-term goal of this research is to further our understanding of the mechanisms controlling renin secretion from the kidney, particularly the roles played by the two recognized second messengers--intracellular calcium and cyclic AMP--in the renin secretory process. This award represents the sixth year of support currently totaling \$393,386.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Immunology and Microbiology, Medicine

GRANT RENEWAL: \$67,263.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Richard S. Berk

TITLE AND OBJECTIVE: "Pseudomonas Eye Infections - An Experimental Model." Pseudomonas eye infections are particularly dangerous to those debilitated by age, to newborn, and those who have experienced corneal abrasions due to industrial accidents. This project, a combined approach by a microbiologist, anatomist and immunologist, will include attempts to identify and quantitate the genetic, tissue, cellular and hormonal factors which may play a role in the outcome of the eye infection. This award represents the eighth year of support totaling \$884,250.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Anatomy, Medicine

GRANT RENEWAL: \$64,967.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Associate Professor Roberta G. Pourcho

TITLE AND OBJECTIVE: "Retinal Neurotransmitters and Synaptic Circuitry." The objective of this study is to examine the light sensitive cells of the eye to identify the distribution of those cells which have different chemical messengers. In addition, the organization of chemical synapses observed within the retina should provide for an increased understanding of chemical organization throughout the central nervous system. This award represents the seventh year of support totaling \$445,180.

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DONOR: National Science Foundation

DEPARTMENT/COLLEGE: Physics and Astronomy, Liberal Arts

GRANT AMENDMENT: \$72,900.00

PERIOD: 4/15/84 - 3/31/86

PRINCIPAL INVESTIGATOR: Associate Professor Lowell E. Wenger

TITLE AND OBJECTIVE: "Low Temperature Studies of Disordered Magnetic Materials." This is an experimental program of research to study the low temperature magnetic properties of disordered magnetic solids. The focus will be on the nature of the static and dynamic properties of these materials near and below their freezing/ordering temperatures. With this amendment, support for the period indicated now totals \$124,600.

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DONOR: National Science Foundation

DEPARTMENT/COLLEGE: Physics and Astronomy, Liberal Arts

GRANT: \$70,300.00

PERIOD: 11/1/84 - 4/30/86

PRINCIPAL INVESTIGATOR: Associate Professor Gerald L. Dunifer

TITLE AND OBJECTIVE: "A Study of High-Frequency Larmor Waves." This project is an investigation of Larmor Waves in pure metals at millimeter-wave frequency. The waves result from magnetization carried by electron spins on certain extremal orbits of the Fermi surface. Larmor Waves were discovered in the metals copper and gold in 1976.

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DONOR: National Science Foundation

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

GRANT AMENDMENT: \$48,300.00

PERIOD: 12/1/83 - 5/31/86

PRINCIPAL INVESTIGATOR: Assistant Professor James H. Rigby

TITLE AND OBJECTIVE: "Vinyl Isocyanates in Alkaloid Synthesis." This project focuses on a new chemistry method of synthesizing a number of important nitrogen-containing chemicals called alkaloids which are difficult to make by other means. The project also focuses on thoroughly developing the new synthetic method so that it will be applicable for solving a large number of other chemical problems as well. With this amendment, support for the period indicated now totals \$96,584.

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DONOR: W.K. Kellogg Foundation

DEPARTMENT/COLLEGE: Family Medicine, Medicine

GRANT AMENDMENT: \$188,793.00

PERIOD: 7/1/82 - 6/30/85

PRINCIPAL INVESTIGATOR: Professor Joseph W. Hess, Chairperson

TITLE AND OBJECTIVE: "A Health Promotion Project Related to Urban Family Practice." This project is designed to assess the relative cost-effectiveness of two risk factor reduction programs focused on five generally recognized risk factors for coronary heart disease, cerebrovascular disease, and lung cancer. This will provide a vehicle for gathering information of national significance relative to development and operation of an active health promotion program in an inner-city urban primary care setting. This project will also assist the Department to move from the planning to implementation stage of a health promotion/disease prevention program as part of its comprehensive approach to education, patient service and health care delivery research and development. Support for the period indicated is currently \$566,471.

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DONOR: World Health Organization

DEPARTMENT/COLLEGE: Immunology and Microbiology, Medicine

GRANT: \$30,000.00

PERIOD: 11/1/84 - 10/31/85

PRINCIPAL INVESTIGATOR: Professor Seymour Levine

TITLE AND OBJECTIVE: "A Potential Subunit Vaccine for Respiratory Syncytial Virus." The objectives of this project are to test the ability of selected respiratory syncytial (RS) virus subunits to confer protection against viral infection in the mouse model, and to determine if the presence of viral specific antibodies, in particular, secretory antibodies, correlates with protection in vaccinated populations.

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DONOR: The March of Dimes Birth Defects Foundation

DEPARTMENT/COLLEGE: Biochemistry, Medicine

GRANT RENEWAL: \$18,000.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Associate Professor Richard A. Hudson

TITLE AND OBJECTIVE: "Teratogenic Phthalic Acid Ester Metabolites." Brine shrimp (*Artemia*) larvae will be exploited as a model system to study embryotoxic mechanisms and the potential long term threat of a major class of environmental contaminants, phthalic acid ester metabolites. This project is especially relevant in as much as these contaminants may be entering the food chain in fresh water aquatic organisms in the United States where alarming fresh water concentrations of phthalates have been reported. With this renewal, support now totals \$36,000.

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DONOR: The Upjohn Company

DEPARTMENT/COLLEGE: Internal Medicine, Medicine

GRANT AMENDMENT: \$9,500.00

PERIOD: Indefinite

PRINCIPAL INVESTIGATOR: Adjunct Assistant Professor Steven A. Crane

TITLE AND OBJECTIVE: "Unrestricted Research Grant." These funds continue an unrestricted research grant to the principal investigator. Support now totals \$73,950.

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DONOR: The Stroh Brewery Company

DEPARTMENT/COLLEGE: Biochemistry, Medicine

GRANT: \$6,000.00

PERIOD: 11/1/84 - 10/31/85

PRINCIPAL INVESTIGATOR: Assistant Professor Richard B. Needleman

TITLE AND OBJECTIVE: "Unrestricted Research Grant." These funds represent an unrestricted research grant to the principal investigator. During the tenure of this grant, the principal investigator will proceed with a feasibility study of the genetic approach to differentiating between three commercial brewing yeast strains.

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STUDENT AID - TOTAL \$375.00

DONOR: Kenny-Michigan Rehabilitation Foundation

DEPARTMENT/COLLEGE: Occupational Therapy, Pharmacy and Allied Health Professions

GRANT AMENDMENT: \$375.00

PERIOD: Indefinite

PRINCIPAL INVESTIGATOR: Assistant Professor Miriam C. Freeling, Chairperson

TITLE AND OBJECTIVE: "Occupational Therapy Scholarship Fund." These funds provide scholarship monies, educational and professional opportunities for students in occupational therapy.

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CONTRACTS  
PROCESSED NOVEMBER, 1984

TOTAL - \$2,690,244.00

DONOR: State of Michigan, Department of Labor,  
Governor's Office for Job Training

DEPARTMENT/COLLEGE: Office of the Dean, Lifelong Learning

CONTRACT RENEWAL: \$1,117,937.00

PERIOD: 7/1/84 - 6/30/85

PRINCIPAL INVESTIGATOR: Professor Otto Feinstein

TITLE AND OBJECTIVE: "Communication Information System for the Unemployed (CISU)." This contract will utilize Job Training Partnership Act, Title III funds to facilitate and provide employment services and employment generating services to dislocated workers through the development and implementation of a Communication System for the Unemployed (CISU). The purpose of this project is: (1) to use broadcast and cable cast television to reach dislocated workers and their families with current, accurate information regarding a wide range of services available, (2) to provide direct services to groups of people organized and actively viewing the television information, and (3) to act as a regional communications link among agencies, organizations and institutions, including Private Industry Councils (PICs) and their staffs, who are working on the unemployment problem. With this renewal, support for this project now totals \$1,425,000.

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DONOR: State of Michigan, Department of Labor,  
Governor's Office for Job Training

DEPARTMENT/COLLEGE: Office of the Dean, Lifelong Learning

CONTRACT: \$307,063.00

PERIOD: 2/1/84 - 6/30/84

PRINCIPAL INVESTIGATOR: Professor Otto Feinstein

TITLE AND OBJECTIVE: "Communication Information System for the Unemployed (CISU)." This contract will utilize Job Training Partnership Act, Title III funds to facilitate and provide employment services and employment generating services to dislocated workers through the development and implementation of a Communication System for the Unemployed (CISU). The CISU project is a new system using modern communication technology to maximize existing resources and provide new links between the dislocated worker and the support systems that are available.

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DONOR: Fund for Medical Research and Education

DEPARTMENT/COLLEGE: Office of the Dean, Medicine

CONTRACT RENEWAL: \$957,606.00

PERIOD: 10/1/84 - 9/30/85

PRINCIPAL INVESTIGATOR: Dean Henry L. Nadler

TITLE AND OBJECTIVE: "Salary Reimbursement." Through the terms of this agreement, the university will be reimbursed for the professional services of forty-five individuals.

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AGENDA: BOARD OF GOVERNORS MEETING - FEBRUARY 15, 1985  
SUBMITTED BY THE OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

DONOR: General Motors Corporation

DEPARTMENT/COLLEGE: Bioengineering Center, Engineering

CONTRACT RENEWAL: \$130,000.00

PERIOD: 9/1/84 - 8/31/85

PRINCIPAL INVESTIGATORS: Professor Albert I. King and Adjunct Associate Professor Robert S. Levine

TITLE AND OBJECTIVE: "Impact Biomechanics of the Musculo-Skeletal System." The broad objective of this project is to investigate the response of an occupant placed in an experimental seat which has a variable seat back angle, during a frontal impact, and to confirm the mechanism of aortic injury resulting from an oblique blow to the right side of the thoraco-abdominal region. With this renewal, the total contractual agreement is currently \$315,000.

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DONOR: Harper-Grace Hospital

DEPARTMENT/COLLEGE: Nurse Anesthesia, Pharmacy and Allied Health Professions

CONTRACT AMENDMENT: \$43,200.00

PERIOD: 9/1/81 - 8/31/85

PRINCIPAL INVESTIGATOR: Mr. James J. Claffey, Chairperson

TITLE AND OBJECTIVE: "Nurse Anesthesia Training Program." Through the terms of this cooperative agreement, clinical education for nurse anesthesia students will be provided. This agreement now totals \$190,800 for the period indicated.

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DONOR: Detroit Receiving Hospital/University Health Center

DEPARTMENT/COLLEGE: Nurse Anesthesia, Pharmacy and Allied Health Professions

CONTRACT AMENDMENT: \$39,600.00

PERIOD: 9/1/81 - 8/31/85

PRINCIPAL INVESTIGATOR: Mr. James J. Claffey, Chairperson

TITLE AND OBJECTIVE: "Nurse Anesthesia Training Program." Through the terms of this cooperative agreement, clinical education for nurse anesthesia students will be provided. This agreement now totals \$187,200 for the period indicated.

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DONOR: Albert Einstein College of Medicine of Yeshiva University

DEPARTMENT/COLLEGE: Pathology, Medicine

CONTRACT RENEWAL: \$38,920.00

PERIOD: 7/1/84 - 6/30/85

PRINCIPAL INVESTIGATOR: Assistant Professor Tuan H. Kuo

TITLE AND OBJECTIVE: "Mechanisms of Heart Failure in the Myopathic Hamster." The objective of this collaborative research program is to study the alterations which occur in one of the muscle proteins as a result of a hereditary deficiency. With this renewal, the total contractual agreement is currently \$180,163.

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DONOR: City of Detroit, Employment and Training  
Department

DEPARTMENTS/COLLEGE: Office of the Dean, Education/  
Computing Services Center

CONTRACT AMENDMENT: \$31,508.00

PERIOD: 10/1/83 - 9/30/84

PRINCIPAL INVESTIGATORS: Associate Professor Tommie M. Johnson and Dr. Morteza A. Rahimi, Director

TITLE AND OBJECTIVE: "Job Training Project." This program will provide occupational skills training to participants in four job areas which are experiencing growth in the evolving information economy: word processing technology, information entry technology, computer operations and basic computer programming. Remedial instruction in the area of reading, language arts and mathematics will insure that participants have the appropriate prerequisite skills to acquire the job training needed to gain entry level employment. Personal counseling will prepare students for encounters with the job market, and a placement component will assist students in obtaining employment. With this amendment, the agreement for the period indicated totals \$231,655.

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DONOR: Available Energy, Incorporated

DEPARTMENT/COLLEGE: Energy Center, Engineering

CONTRACT: \$24,410.00

PERIOD: 9/1/84 - 12/31/84

PRINCIPAL INVESTIGATORS: Associate Professor Charles Leffert and Assistant Professor Steven Solley

TITLE AND OBJECTIVE: "Ultrasonic Particle Size." A full-scale pulverized coal test loop has been constructed and successfully operated by Wayne State University College of Engineering Energy Center. Over the past four years this test loop has been used to test the donor agency's ultrasonic instrument to measure the gas velocity and coal loading in the flowing medium. In this project it is planned to test the ultrasonic instrument to obtain a measure of the particle size of suspended solids.

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MONTHLY REPORT - OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

RECORDED - Gifts, Grants and Contracts

College or Division	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Business Administration	\$ 19,229	\$1,019,229	\$ 356,306	\$ 498,179
Education	47,116	265,012	81,033	1,171,602
Engineering	310,172	455,538	852,890	3,610,370
Law	37,080	46,590	25,570	322,455
Liberal Arts	757,105	870,085	1,173,330	9,775,194
Medicine	1,149,377	1,636,972	2,031,681	17,728,439
(Salary Reimbursement)	957,606	4,928,959	1,341,537	6,342,523
Nursing	12,794	304,066	77,888	2,048,181
Pharmacy & Allied Health Professions	103,280	117,655	128,924	323,574
(Salary Reimbursement)	-0-	-0-	15,286	300,766
Social Work	10,890	10,890	2,700	28,494
Library	-0-	-0-	1,603	29,944
Elementary School	-0-	-0-	101,178	395,422
Health & Phys. Education	22,759	69,290	50,689	206,885
Lifelong Learning	1,425,000	1,425,000	174	18,261
Urban Studies	-0-	50,386	183,000	795,332
Student Financial Aids	-0-	53,965	633,884	9,583,632
Administration	-0-	-0-	88,146	1,289,364
Other	466,485	629,146	506,967	3,942,910
Grants and Contracts	\$3,391,117	\$5,983,654	\$5,708,345	\$46,720,933
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
Gifts	970,170	970,170	587,618	5,047,305
TOTAL	\$5,318,893	\$11,882,783	\$7,652,786	\$58,411,527

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)

MONTHLY REPORT - OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

RECORDED - By Purpose

PURPOSE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Research	\$1,662,641	\$2,495,669	\$3,648,934	\$26,222,269
Instruction	271,593	797,443	1,022,308	8,799,539
Student Aid	375	63,850	763,719	10,444,744
Capital	-0-	-0-	1,920	291,826
Other	1,456,508	2,626,692	859,082	6,009,860
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
Gifts	970,170	970,170		
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

RECORDED - By Source

SOURCE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Federal Government	\$1,405,811	\$3,339,959	\$4,282,860	\$36,700,856
Other Government	1,456,508	1,577,814	243,008	3,843,208
Private	528,798	1,065,881	1,182,279	6,176,869
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
Gifts	970,170	970,170	587,816	5,047,305
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

RECORDED - By Type

TYPE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Grants and Contracts	\$3,391,117	\$5,983,654	\$5,708,147	\$46,720,933
Gifts	970,170	970,170	587,816	5,047,305
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)

GRANTS  
PROCESSED DECEMBER, 1984

Research and Instruction	\$1,210,732.00
Student Aid	928,720.00
Public Service	21,398.00
Other Educational Purposes	9,378.00
	<u>\$2,170,228.00</u>

RESEARCH AND INSTRUCTION - TOTAL \$1,210,732.00

DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Ophthalmology, Medicine

GRANT RENEWAL: \$163,509.00

PERIOD: 2/1/85 - 1/31/86

PRINCIPAL INVESTIGATOR: Professor Clifford V. Harding, Jr.

TITLE AND OBJECTIVE: "Cell Biology of the Normal and Cataractous Lens." The overall goal of this project is a better understanding of the ultrastructural and chemical changes which characterize the development of human cataracts. Studies will also be continued on wound healing in the lens epithelium. This award represents the ninth year of support and now totals \$878,051.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Ophthalmology, Medicine

GRANT RENEWAL: \$161,822.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor Robert N. Frank

TITLE AND OBJECTIVE: "Retinal Microvessels: Tissue Culture and Biochemistry." This project will continue to investigate the biochemistry and physiology of freshly isolated retinal microvessels, and of their component cells in culture. The fundamental knowledge from these studies may have value for the understanding of retinal vascular diseases, such as diabetic retinopathy. This award represents the ninth year of support totaling \$891,184.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Psychiatry, Medicine

GRANT: \$143,609.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Assistant Professor Rosalie F. Young

TITLE AND OBJECTIVE: "Mental Health, Adaptation and Care of Aged." In this study, the physical health/mental health interface will be investigated focusing on elderly heart patients and their caretakers. Data will be collected on their resources such as coping style, illness related coping efforts, social support, marital support and economic variables. Adaptational outcomes will be determined according to achievement of illness adaptation tasks in conjunction with theories of crisis response. Predictive materials will also be generated and path models will be presented to show any causal flow of resources to positive adaptational outcomes toward mental and physical health.

AGENDA: BOARD OF GOVERNORS MEETING - FEBRUARY 15, 1985  
SUBMITTED BY THE OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Obstetrics and Gynecology, Medicine

GRANT RENEWAL: \$118,469.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Associate Professor Anthony G. Sacco

TITLE AND OBJECTIVE: "Immunocontraception - Antibodies to Zona Pellucida." The objective of this project is to evaluate the use of immune responses for fertility regulation. Specifically, antibodies will be generated against proteins found in an acellular layer of the ovary (zona pellucida) which surrounds the maturing ova. The effect will be assayed using microscopy and immunologic tests. Support for this project now totals \$552,994.

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DONOR: U.S. Public Health Service

DEPARTMENTS/COLLEGES: Immunology and Microbiology, Medicine/  
Biological Sciences, Liberal Arts/  
Pediatrics, Medicine

GRANT: \$105,630.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATORS: Associate Professor Stephen P. Lerman, Assistant Professor Howard Petty and Associate Professor Joseph Kaplan

TITLE AND OBJECTIVE: "The Immunology of Increased Aggressiveness of SJL Tumors." The subject of this grant is an inbred strain of mice (SJL/J strain) that develop lymphoid tumors (lymphomas) spontaneously as they age. Upon initial transplantation into mice of the same histocompatible strain these tumors grow in an indolent manner. However, upon continued transplantation in mice of the same strain, tumors are at constant risk of permanent acquisition of aggressive growth characteristics. Coincident with the acquisition of aggressive growth characteristics is the absence of a class I major histocompatibility complex (MHC) antigen from the surface of the tumor cells. Since class I MHC antigens can play a role in the recognition of tumor cells by cytotoxic T cells and natural killer (NK) cells, it is hypothesized that MHC antigen deficient tumors are more aggressive than their MHC-antigen-complete counterparts because of suboptimal recognition and/or killing by cytotoxic T cells and/or NK cells. It is the purpose of this grant to test the above hypothesis.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Biological Sciences, Liberal Arts

GRANT: \$67,947.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Associate Professor David L. Njus

TITLE AND OBJECTIVE: "Catecholamine Transport in Adrenal Chromaffin Granules." The overall goal of this project is to define the mechanism of catecholamine transport into the storage vesicles (chromaffin granules) of bovine adrenal medulla. The catecholamine uptake system in chromaffin granules is the best characterized transport system in these organelles, and it has a correspondingly important role in elucidating the testing concepts of energy coupling and facilitated transport.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Anatomy, Medicine

GRANT RENEWAL: \$59,614.00

PERIOD: 1/1/85 - 12/31/85

PRINCIPAL INVESTIGATOR: Associate Professor Robert P. Skoff

TITLE AND OBJECTIVE: "A Unique System to Study Myelination." This project is aimed at increasing our understanding of human diseases in which myelination is arrested. The cumulative total of this grant support is currently \$172,775.

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DONOR: U.S. Public Health Service

DEPARTMENT/COLLEGE: Psychology, Liberal Arts

GRANT: \$7,156.00

PERIOD: 10/1/84 - 11/30/84

PRINCIPAL INVESTIGATOR: Associate Professor Rebecca A. Treiman

TITLE AND OBJECTIVE: "Children's Conceptions of Sounds, Reading and Spelling." This research will study children's knowledge of the sound structure of their language, and how this knowledge is reflected in their learning of reading and spelling. An improved understanding of the knowledge and expectations that children bring with them when they learn to read and write should shed light on some of the difficulties that they face and on how these difficulties might be overcome.

\*\*\*\*\*

DONOR: National Science Foundation

DEPARTMENT/COLLEGE: Physics and Astronomy, Liberal Arts

GRANT AMENDMENT: \$185,000.00

PERIOD: 1/15/84 - 6/30/86

PRINCIPAL INVESTIGATORS: Associate Professor Walter E. Kauppila and Professor Talbert S. Stein

TITLE AND OBJECTIVE: "Positron and Electron Scattering by Atoms and Molecules." The scattering of positrons and electrons by atoms and molecules will be studied experimentally in order to learn more about basic interactions of antimatter with matter and to obtain information that will help to provide a better understanding of electron scattering phenomena, which are of direct interest to many areas of science and technology. With this amendment, support for the period indicated totals \$360,000.

\*\*\*\*\*

DONOR: National Science Foundation

DEPARTMENT/COLLEGE: Computer Science, Liberal Arts

GRANT AMENDMENT: \$45,440.00

PERIOD: 8/1/84 - 1/31/86

PRINCIPAL INVESTIGATOR: Professor Bernard P. Zeigler

TITLE AND OBJECTIVE: "Distributed Simulation of Hierarchical Multicomponent Models." These funds support the continued investigation of procedures for mapping multilevel model representation onto distributed simulators so that correct and efficient simulation is facilitated. The results of the research will contribute both to computer and to systems science: to the first area, we will better understand how to utilize a potentially powerful class of architectures, and to the second, because of the extensions that will be made to the theory of system representation so that it applies to the enlarged domain of distributed computer simulation. With this amendment, support for the period indicated totals \$82,142.

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DONOR: American Cancer Society

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

GRANT RENEWAL: \$64,250.00

PERIOD: 1/1/85 - 12/31/85

PRINCIPAL INVESTIGATOR: Professor Lawrence J. Marnett.

TITLE AND OBJECTIVE: "The Role of Prostaglandin Synthetase in the Metabolic Activation of Chemical Carcinogens." The aims of this study are to gather data on the oxidative activation of chemical carcinogens by the enzyme complex prostaglandin synthetase and to evaluate the importance of this pathway in vivo. Support now totals \$407,731.

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DONOR: National Dairy Council

DEPARTMENT/COLLEGE: Internal Medicine, Medicine

GRANT: \$45,200.00

PERIOD: 9/1/84 - 8/31/85

PRINCIPAL INVESTIGATOR: Professor James R. Sowers

TITLE AND OBJECTIVE: "Effect of Increasing Calcium Intake on Salt Sensitivity in Blacks." Studies to be conducted will determine the effects of supplementation of dietary calcium (yogurt), on the autonomic nervous system, the renin-angiotensin system, the prostaglandin system and cellular membrane transport systems which are all important systems regulating the body's ability to handle sodium. This research project should help identify mechanisms, related to a deficit in calcium intake, which contribute to development of hypertension in our black population who generally ingest a diet high in sodium and low in calcium.

\*\*\*\*\*

DONOR: Muscular Dystrophy Association

DEPARTMENT/COLLEGE: Biochemistry, Medicine

GRANT: \$30,000.00

PERIOD: 1/1/85 - 12/31/85

PRINCIPAL INVESTIGATOR: Professor Chuan-pu Lee

TITLE AND OBJECTIVE: "Neuromuscular Diseases and Mitochondrial Structure/Function." The aim of this research is to identify the metabolic disorders (s) in skeletal muscle of patients suffering from mitochondrial myopathy and encephalomyopathy by evaluating the biochemical and biophysical properties of mitochondrial preparations isolated from biopsy specimens of these patients. Correlations of parameters with the clinical syndrome will offer assistance in elucidating the pathogenesis, and contribute to our understanding of these diseases at the molecular level. This in turn will offer assistance in devising therapeutic treatments for these patients.

\*\*\*\*\*

DONOR: Schering Corporation

DEPARTMENT/COLLEGE: Internal Medicine, Medicine

GRANT AMENDMENT: \$12,122.00

PERIOD: 3/1/84 - 3/31/85

PRINCIPAL INVESTIGATOR: Assistant Professor Vithal Kinhal

TITLE AND OBJECTIVE: "A Hemodynamic Study of SCH19227 (Dilevalol) in Hypertensive Patients with a History of Congestive Heart Failure." The objective of this research study is to determine the hemodynamics of Dilevalol and an antihypertensive agent in hypertensive patients with compromised left ventricular function and a history of congestive heart failure. With this amendment, research monies now total \$24,245.

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DONOR: Smith, Hinchman and Grylls Associates,  
IncorporatedDEPARTMENT/COLLEGE: Occupational and Environmental Health,  
Pharmacy and Allied Health Professions

GRANT: \$964.00

PERIOD: 1/1/84 - 1/31/85

PRINCIPAL INVESTIGATOR: Professor Peter O. Warner

TITLE AND OBJECTIVE: "Measured Levels of Indoor Air Pollutants in Superinsulated Housing." The City of Detroit has requested the donor agency to develop a procedure and to perform interior air quality tests of two project homes located at 19400 Grantview and 9655 Sorrento, both prior to and following the rehabilitation/retrofit of these two homes. These funds will support graduate students who will perform this work.

\*\*\*\*\*

STUDENT AID - TOTAL \$928,720.00

DONOR: U.S. Department of Education

DEPARTMENT: Student Financial Aid

GRANT AMENDMENT: \$906,720.00

PERIOD: 7/1/83 - 6/30/84

PRINCIPAL INVESTIGATOR: Mr. George E. Emery, Director

TITLE AND OBJECTIVE: "Pell Grant Program." The purpose of the Pell Grant Program is to assist students in the continuation of their training and education at the postsecondary level by providing financial aid to help pay for their educational costs. Support for the period indicated totals \$5,124,542.

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DONOR: U.S. Department of Education

DEPARTMENT: Student Financial Aids

GRANT AMENDMENT: \$20,000.00

PERIOD: 7/1/84 - 6/30/85

PRINCIPAL INVESTIGATOR: Mr. George E. Emery, Director

TITLE AND OBJECTIVE: "College Work/Study Program." Funds available through the continuation of this grant will provide financial assistance to students from low-income families in the form of paid work assignments at the university, related to their primary educational interest. The award for the period indicated now totals \$666,418.

\*\*\*\*\*

DONOR: State Bar of Michigan

DEPARTMENT/COLLEGE: Speech, Communication, Theatre and  
Journalism, Liberal Arts

GRANT AMENDMENT: \$2,000.00

PERIOD: 11/1/80 - 10/31/85

PRINCIPAL INVESTIGATOR: Professor Edward J. Pappas, Chairperson

TITLE AND OBJECTIVE: "State Bar of Michigan Scholarship - Communications: Radio and Television." Funds from this grant will be made available as a scholarship in the area of communications, specifically radio and television. Support now totals \$6,000.

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PUBLIC SERVICE - TOTAL \$21,398.00DONOR: North Atlantic Treaty Organization, Scientific  
Affairs DivisionDEPARTMENT/COLLEGE: Electrical and Computer Engineering,  
Engineering

GRANT AMENDMENT: \$10,098.00

PERIOD: 9/17/84 - 3/31/85

PRINCIPAL INVESTIGATORS: Associate Professor Arun K. Sood and Professor Abdul H. Qureshi

TITLE AND OBJECTIVE: "Relational Database Machine Architecture." These funds support an Advanced Study Institute on Relational Database Machine Architecture to be held from 16th-28th June, 1985 in Southern France. The objective is to bring together researchers actively involved in the design of relational data models for a thorough indepth discussion on the current work and to offer a forum for an analysis of future machines. With this amendment, support currently totals \$13,305.

\*\*\*\*\*

DONOR: Michigan Council for the Arts

DEPARTMENT: Dance, Health and Physical Education

GRANT: \$9,500.00

PERIOD: 10/1/84 - 9/30/85

PRINCIPAL INVESTIGATOR: Assistant Professor Eva M. Jablonowski-Powers

TITLE AND OBJECTIVE: "On Stage! Dance Performances for Children." These funds support ten dance concerts for children on campus and in satellite regional locations with lecture/demonstrations specifically geared to youths of middle and high school age and for adult audiences in confined settings to expose them and the general public to the dance discipline.

\*\*\*\*\*

DONOR: Michigan Council for the Arts

DEPARTMENT/COLLEGE: Art and Art History, Liberal Arts

GRANT: \$1,800.00

PERIOD: 10/24/84 - 11/16/84

PRINCIPAL INVESTIGATOR: Professor Richard J. Bilaitis, Chairperson

TITLE AND OBJECTIVE: "WSU Alumni in New York City Exhibition." These funds support the production of a 40 page catalogue and provides transportation for exhibition of Wayne State alumni living in New York.

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OTHER EDUCATIONAL PURPOSES - TOTAL \$9,378.00

DONOR: U.S. Department of Education

DEPARTMENT: Placement Services, Student Affairs

GRANT RENEWAL: \$9,378.00

PERIOD: 10/1/84 - 9/30/85

PRINCIPAL INVESTIGATOR: Mr. John A. Crusoe, Director

TITLE AND OBJECTIVE: "Supplemental Funds Program for Cooperative Education." These funds will be used to improve and expand the current program of cooperative education at the university. Support for this program now totals \$30,668.

\*\*\*\*\*

CONTRACTS  
PROCESSED DECEMBER, 1984

TOTAL - \$885,201.00

DONOR: Department of the Army, Tank Automotive  
Command

DEPARTMENTS/COLLEGES: Research Institute for Engineering  
Sciences, Engineering/Computer Science,  
Liberal Arts

CONTRACT AMENDMENT: \$147,652.00

PERIOD: 7/1/83 - 10/31/85

PRINCIPAL INVESTIGATORS: Associate Dean Edward R. Fisher, Associate Professor Arun K. Sood and Assistant Professor Carl  
B. Friedlander

TITLE AND OBJECTIVE: "Research in the Field of Vetronics." This work is designed to compare and evaluate alternate  
systems architectures and interconnection methodologies for advanced vehicle systems. Additionally, the Criteria for the  
evaluation and rank of various system schemes will be developed. With this amendment, this contractual agreement  
currently totals \$405,993.

\*\*\*\*\*

DONOR: Department of the Army, Research Office

DEPARTMENT/COLLEGE: Chemistry, Liberal Arts

CONTRACT: \$100,413.00

PERIOD: 12/1/84 - 11/30/85

PRINCIPAL INVESTIGATOR: Professor A. Paul Schaap

TITLE AND OBJECTIVE: "Cosensitized Electron-Transfer Photooxygenation." Cosensitized electron-transfer photooxygenation  
has been developed in the laboratory of the principal investigator as a new method for the photochemical oxidation  
of various organic substrates. This project consists of a series of investigations directed towards the application  
of cosensitized electron-transfer photooxygenation to the oxidative degradation of toxic organophosphorus and sulfur  
compounds. Various aromatic hydrocarbons will be evaluated as potential cosensitizers. The results of these  
experiments will be relevant to the development of photoactive surfaces for in situ decontamination.

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DONOR: Department of the Army, Research Office

DEPARTMENT/COLLEGE: Mathematics, Liberal Arts

CONTRACT AMENDMENT: \$34,500.00

PERIOD: 12/1/82 - 11/30/85

PRINCIPAL INVESTIGATORS: Professor Pao-Liu Chow and Assistant Professor Jose L. Menaldi

TITLE AND OBJECTIVE: "Stochastic Partial Differential Equations in Physical and Systems Sciences." This project is  
concerned with the study of the statistical law of intensity fluctuation for optical beam. The overall objective  
is to determine the effects of multiple scattering by random media on the statistical properties of the relevant  
parameters of electromagnetic or optical waves in communication, guidance and detection problems. With this  
amendment, this contractual agreement currently totals \$96,500.

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AGENDA: BOARD OF GOVERNORS MEETING - FEBRUARY 15, 1985  
SUBMITTED BY THE OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

DONOR: State of Michigan, Department of Social Services DEPARTMENT: Center for Urban Studies/Labor, Urban and Metropolitan Affairs Center

CONTRACT RENEWAL: \$240,000.00 PERIOD: 10/1/84 - 9/30/85

PRINCIPAL INVESTIGATORS: Dr. Sue M. Smock, Director and Dr. Louise L. Brown, Research Associate

TITLE AND OBJECTIVE: "Neighborhood Family Resource Centers." Through the terms of this agreement, the Council on Early Childhood will continue to operate two Neighborhood Family Resource Centers located in suburban Lincoln Park, serving a largely white-blue-collar population and the Jefferson-Chalmers area of Southeast Detroit, serving a largely low-income black population. The long range goals of this project are to strengthen families and to promote health child development, thereby contributing to the primary prevention of child abuse and delinquency. The total contractual amount is currently \$1,351,500.

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DONOR: State of Michigan, Bureau of State Lottery DEPARTMENT/COLLEGE: Research Institute for Engineering Sciences, Engineering

CONTRACT RENEWAL: \$12,612.00 PERIOD: 10/1/84 - 9/30/85

PRINCIPAL INVESTIGATOR: Associate Dean Edward R. Fisher

TITLE AND OBJECTIVE: "Maintenance and Certification Program." Through the terms of this agreement, the university will continue its role as responsible organization in the maintenance, upgrading and certification of the drawing equipment and systems used by the Bureau for the Daily 3, Daily 4 and Lotto drawings. This agreement now totals \$95,112.

\*\*\*\*\*

DONOR: City of Detroit, Employment and Training Department DEPARTMENTS/COLLEGE: Office of the Dean, Education/ Computing Services Center

CONTRACT RENEWAL: \$217,427.00 PERIOD: 9/17/84 - 6/30/85

PRINCIPAL INVESTIGATORS: Associate Professor Tommie M. Johnson and Dr. Morteza A. Rahimi, Director

TITLE AND OBJECTIVE: "Job Training Project." This program will provide occupational skills training to participants in four job areas which are experiencing growth in the evolving information economy: word processing technology, information entry technology, computer operations and basic computer programming. Remedial instruction in the area of reading, language arts and mathematics will insure that participants have the appropriate prerequisite skills to acquire the job training needed to gain entry level employment. Personal counseling will prepare students for encounters with the job market, and a placement component will assist students in obtaining employment. With this renewal, this contractual agreement currently totals \$449,082.

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DONOR: City of Detroit, Planning Department

DEPARTMENT: Center for Urban Studies/Labor, Urban and  
Metropolitan Affairs Center

CONTRACT RENEWAL: \$32,700.00

PERIOD: 7/1/84 - 6/30/85

PRINCIPAL INVESTIGATOR: Professor Otto Feinstein

TITLE AND OBJECTIVE: "The City-University Consortium." A City-University Consortium has been jointly established by the City of Detroit and Wayne State University. The Consortium is organized into eight elements: consultations, evaluations, education, mini-research, policy options, hearings indicators and working groups. The contractual agreement now totals \$228,700.

\*\*\*\*\*

DONOR: Michigan State University

DEPARTMENT: Center for Urban Studies/Labor, Urban and  
Metropolitan Affairs Center

CONTRACT AMENDMENT: \$61,062.00

PERIOD: 1/12/84 - 2/28/86

PRINCIPAL INVESTIGATORS: Assistant Provost Marietta Baba and Assistant Professor Ann Sheldon

TITLE AND OBJECTIVE: "University-Industry Linkage in Michigan." This is a subcontract entered into pursuant to the terms of the prime grant from the National Science Foundation. This project is a study to examine how linkages (e.g. resources, information) between Michigan universities and industry stimulate industrial innovation and growth. With this amendment, this agreement currently totals \$115,075.

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DONOR: Electric Power Research Institute

DEPARTMENT/COLLEGE: Mechanical Engineering, Engineering

CONTRACT AMENDMENT: \$24,210.00

PERIOD: 2/29/84 - 8/31/85

PRINCIPAL INVESTIGATOR: Professor Evgeny I. Rivin

TITLE AND OBJECTIVE: "Some Nonlinear Mechanical Systems and Their Application to Nuclear Power Plants." Through the terms of this agreement, the usefulness on nonlinear mechanical systems in electrical power generating stations will be established. This contractual agreement currently totals \$46,680.

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DONOR: McDowell and Associates

DEPARTMENT/COLLEGE: Civil Engineering, Engineering

CONTRACT: \$9,625.00

PERIOD: 12/15/84 - 5/2/85

PRINCIPAL INVESTIGATOR: Associate Professor Chitta R. Gangopadhyay

TITLE AND OBJECTIVE: "Evaluation of Geotechnical Parameters for the Detroit Resource Recovery Project." The City of Detroit is planning to build the Resource Recovery Plant in Detroit. Through the terms of this agreement, geotechnical parameters for foundation engineering and design of the project will be established.

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DONOR: Travenol Laboratories, Incorporated

DEPARTMENT/COLLEGE: Pharmacy Practice, Pharmacy and Allied  
Health Professions

CONTRACT AMENDMENT: \$5,000.00

PERIOD: 3/26/84 - 3/25/85

PRINCIPAL INVESTIGATOR: Associate Professor Salvador Pancorbo, Chairperson

TITLE AND OBJECTIVE: "A Comparative Evaluation of Two Methods Used to Individualize Intravenous Theophylline Therapy Using Pre-Mixed Theophylline Bags and a Standard Protocol." Theophylline is considered by many clinicians to be the drug of choice for critical asthmatic and bronchitic attacks that are resistant to epinephrine. This study will assess the feasibility of using pre-mixed theophylline bags to administer loading doses and maintenance infusions of theophylline. This agreement now totals \$10,000.

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MONTHLY REPORT - OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

RECORDED - Gifts, Grants and Contracts

College or Division	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Business Administration	\$ 19,039	\$1,038,268	\$ 382,446	\$ 498,179
Education	227,540	492,552	84,011	1,171,602
Engineering	236,962	692,499	1,193,313	3,610,370
Law	29,398	75,988	30,075	322,455
Liberal Arts	544,809	1,414,943	3,748,122	9,775,194
Medicine	1,215,803	2,852,775	3,798,470	17,728,439
(Salary Reimbursement)	-0-	4,928,959	1,606,504	6,342,523
Nursing	5,364	309,411	318,905	2,048,181
Pharmacy & Allied Health Professions	12,656	130,311	140,419	323,574
(Salary Reimbursement)	-0-	-0-	15,286	300,766
Social Work	3,560	14,450	7,360	28,494
Library	2,258	2,258	15,003	29,944
Elementary School	215	215	101,178	395,422
Health & Phys. Education	12,873	82,162	60,693	206,885
Lifelong Learning	101,322	1,526,322	179	18,261
Urban Studies	333,882	384,268	183,250	795,332
Student Financial Aids	936,022	989,987	645,545	9,583,632
Administration	52,979	52,979	141,624	1,289,364
Other	77,563	706,681	583,788	3,942,910
Grants and Contracts	\$3,055,429	\$9,039,083	\$10,591,123	\$46,720,933
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
Gifts	756,816	1,726,986	843,258	5,047,305
TOTAL	\$3,812,245	\$15,695,028	\$13,056,171	\$58,411,527

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)



MONTHLY REPORT - OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

RECORDED - By Purpose

PURPOSE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Research	\$1,605,806	\$4,101,475	\$7,225,308	\$26,222,269
Instruction	-0-	797,443	1,584,596	8,799,539
Student Aid	928,720	992,570	797,535	10,444,744
Capital	-0-	-0-	2,120	291,826
Other	520,903	3,147,595	1,824,822	6,009,860
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
Gifts	756,816	1,927,186		
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

RECORDED - By Source

SOURCE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Federal Government	\$2,276,859	\$5,616,818	\$7,655,091	\$36,700,856
Other Government	516,039	2,093,853	1,276,406	3,843,208
Private	262,531	1,328,412	1,659,626	6,176,869
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
Gifts	756,816	1,927,186	843,258	5,047,305
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

RECORDED - By Type

TYPE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Grants and Contracts	\$3,055,429	\$9,039,083	\$10,591,123	\$46,720,933
Gifts	756,816	1,927,186	843,258	5,047,305
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)

RECORDED - By Purpose

PURPOSE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Research	\$1,662,641	\$2,495,669	\$3,648,934	\$26,222,269
Instruction	271,593	797,443	1,022,308	8,799,539
Student Aid	375	63,850	763,719	10,444,744
Capital	-0-	-0-	1,920	291,826
Other	1,456,508	2,626,692	859,082	6,009,860
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
Gifts *	970,170*	970,170*		
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

RECORDED - By Source

SOURCE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Federal Government	\$1,405,811	\$3,339,959	\$4,282,860	\$36,700,856
Other Government	1,456,508	1,577,814	243,008	3,843,208
Private	528,798	1,065,881	1,182,279	6,176,869
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
Gifts	970,170	970,170	587,816	5,047,305
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

RECORDED - By Type

TYPE	November 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Grants and Contracts	\$3,391,117	\$5,983,654	\$5,708,147	\$46,720,933
Gifts	970,170	970,170	587,816	5,047,305
Salary Reimbursements	957,606	4,928,959	1,356,823	6,643,289
<b>TOTAL</b>	<b>\$5,318,893</b>	<b>\$11,882,783</b>	<b>\$7,652,786</b>	<b>\$58,411,527</b>

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)

\*Gifts are reflected as a total without distribution by purpose. Financial information on gifts received by purpose is not available from the Development Office. Gift funds are included by purpose in "Year-to-Date 1983-84" and "Fiscal Year Total 1984" columns.

MONTHLY REPORT - OFFICE OF RESEARCH AND SPONSORED PROGRAMS SERVICES

RECORDED - By Purpose

PURPOSE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Research	\$1,605,806	\$4,101,475	\$7,225,308	\$26,222,269
Instruction	-0-	797,443	1,584,596	8,799,539
Student Aid	928,720	992,570	797,535	10,444,744
Capital	-0-	-0-	2,120	291,826
Other	520,903	3,147,595	1,824,822	6,009,860
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
Gifts*	756,816*	1,927,186*		
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

RECORDED - By Source

SOURCE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Federal Government	\$2,276,859	\$5,616,818	\$7,655,091	\$36,700,856
Other Government	516,039	2,093,853	1,276,406	3,843,208
Private	262,531	1,328,412	1,659,626	6,176,869
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
Gifts	756,816	1,927,186	843,258	5,047,305
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

RECORDED - By Type

TYPE	December 1984	Year-to-Date 1984-1985	Year-to-Date 1983-1984	Fiscal Year Total 1984
Grants and Contracts	\$3,055,429	\$9,039,083	\$10,591,123	\$46,720,933
Gifts	756,816	1,927,186	843,258	5,047,305
Salary Reimbursements	-0-	4,928,959	1,621,790	6,643,289
<b>TOTAL</b>	<b>\$3,812,245</b>	<b>\$15,895,228</b>	<b>\$13,056,171</b>	<b>\$58,411,527</b>

AGENDA: BOARD OF GOVERNORS MEETING - February 15, 1985

Board of Governors Reporting Period (October 1, 1984 - September 30, 1985)

\*Gifts are reflected as a total without distribution by purpose. Financial information on gifts received by purpose is not available from the Development Office. Gift funds are included by purpose in "Year-to-Date 1983-84" and "Fiscal Year Total 1984" columns.

Monthly Board of Governors Report

Office of Research and Sponsored Programs Services

Glossary

Sections of Report

Gifts Recorded: The amounts reflected are gift monies recorded by the Development Office.

Grants Processed: The grants included in this report were processed by the Office of Research and Sponsored Programs Services and submitted to the Accounting Department for inclusion into the accounting system for the period indicated. The award amount reported reflects the sponsor agency award statement and is not based on cash received.

Contracts Processed: The contracts included in this report were processed by the Office of Research and Sponsored Programs Services and submitted to the Accounting Department for inclusion into the accounting system for the period indicated. The award amount reported reflects the sponsored agency award statement and is not based on cash received.

Financial Summary Section

Monthly Date: The monthly date column of the financial section of the report records the calendar year involved.

Year to Date: Current year cumulative total of activity recorded from October 1 to the last day of the listed month.

Prior year cumulative total of activity recorded from October 1 to the last day of the listed month. This column is provided for comparison purposes with the current year activity level.

Fiscal Year Total: Prior year cumulative total of activity. This column is provided for comparison purposes with the current year activity level.

Salary Reimbursement: Executed contracts for reimbursement of salary for services being provided by faculty and professional personnel at other institutions.

Gifts: The amounts reflected are gift monies recorded by the Development Office.

Purpose

- Research: Recorded grant and contract funds designated for research activities.
- Instruction: Recorded grant and contract funds designated for instructional activities.
- Student Aid: Recorded grant funds designated for student financial aid support.
- Capital: Recorded grant and contract funds designated for buildings or their renovation.
- Other: Recorded grant and contract funds designated for public service, and other educational purposes.
- Salary Reimbursements: Recorded contract funds for reimbursement of salaries for services performed at other institutions.
- Gifts: Recorded gift funds without designation of purpose.

Source

- Federal Government: Funds recorded from grants and contracts received from the Federal Government.
- Other Government: Funds recorded from grants and contracts received from State, County and City Governments.
- Private: Funds recorded from grants and contracts received from non-government sources, excluding salary reimbursement contracts.
- Salary Reimbursements: Funds recorded from private contracts for reimbursement of salaries for services performed at other institutions.
- Gifts: Funds recorded from gifts received from non-government sources, excluding salary reimbursement contracts and private grants and contracts.

Type

- Grants and Contracts: Amounts recorded reflect the cumulative total of grants and contracts funded beginning October 1 through the date of the report, excluding salary reimbursement contracts.

Gifts: Amounts recorded by the Development Office beginning October 1 through the date of the report.

Salary Reimbursements: Amounts recorded reflect the cumulative total of salary reimbursement contracts beginning October 1 through the date of the report.