

MICHIGAN STATE UNIVERSITY

APPROVED


DECEMBER 18, 2020

BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

December 4, 2020

MEMORANDUM

TO: Members of the Board of Trustees

FROM: Douglas A. Gage, Interim Vice President 

SUBJECT: Gift, Grant and Contract Report

RECOMMENDATION: That the Board of Trustees approve the attached Gift, Grant and Contract Report for the period of August 14, 2020 through November 16, 2020. The report is a compilation of 767 Gifts, Grants and Contracts plus 11 Consignment/Non-Cash Gifts, with a total value of \$193,048,282.



Office of
**RESEARCH &
INNOVATION**

FY 2020-21 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$372,804,119 |
| b) Gifts, Grants and Contracts plus Consignments: | \$375,558,825 |
- (Consignments are Non-Cash Gifts and Non-Cash Loans)

RESOLUTION:

BE IT RESOLVED that the Board of Trustees approve acceptance of gifts, grants and contracts as listed in the attached report.

Douglas A. Gage, Ph.D.
Interim Vice President

Hannah Administration Bldg.
426 Auditorium Rd, Rm 249
East Lansing, MI 48824

517/355-0306
Fax: 517/432-1171

gage@msu.edu

Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 12/18/2020

Current Period: Aug 14, 2020 - Nov 16, 2020

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$87,694,090	\$213,943,943	89.4%
State of Michigan	\$3,063,312	\$3,790,314	1.6%
Other	\$4,327,576	\$8,522,273	3.6%
Industry/CO	\$739,829	\$3,055,324	1.3%
Foundation	\$6,728,715	\$8,985,786	3.8%
Association	\$665,624	\$1,144,789	0.5%
Research - Total	\$103,219,145	\$239,442,429	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$24,017,705	\$41,569,259	31.2%
State of Michigan	\$34,564,647	\$34,741,660	26.1%
Other	\$9,926,722	\$12,579,887	9.4%
Industry/CO	\$1,433,273	\$1,769,226	1.3%
Foundation	\$4,979,228	\$6,397,599	4.8%
Association	\$125,970	\$138,470	0.1%
Various Donors - Advancement	\$13,031,348	\$36,165,589	27.1%
Non-Research - Total	\$88,078,894	\$133,361,691	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$111,711,795	\$255,513,201	68.5%
State of Michigan	\$37,627,959	\$38,531,974	10.3%
Other	\$14,254,298	\$21,102,160	5.7%
Industry/CO	\$2,173,102	\$4,824,550	1.3%
Foundation	\$11,707,943	\$15,383,386	4.1%
Association	\$791,594	\$1,283,259	0.3%
Various Donors - Advancement	\$13,031,348	\$36,165,589	9.7%
TOTAL	\$191,298,039	\$372,804,119	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	323	652	59.7%
State of Michigan	23	31	2.8%
Other	79	156	14.3%
Industry/CO	44	118	10.8%
Foundation	28	50	4.6%
Association	58	86	7.9%
Research - Total	555	1,093	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	87	144	40.9%
State of Michigan	18	21	6.0%
Other	34	68	19.3%
Industry/CO	41	60	17.0%
Foundation	24	48	13.6%
Association	7	9	2.6%
Various Donors - Advancement	1	2	0.6%
Non-Research - Total	212	352	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	410	796	55.1%
State of Michigan	41	52	3.6%
Other	113	224	15.5%
Industry/CO	85	178	12.3%
Foundation	52	98	6.8%
Association	65	95	6.6%
Various Donors - Advancement	1	2	0.1%
TOTAL	767	1,445	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 12/18/2020

Current Period: Aug 14, 2020 - Nov 16, 2020

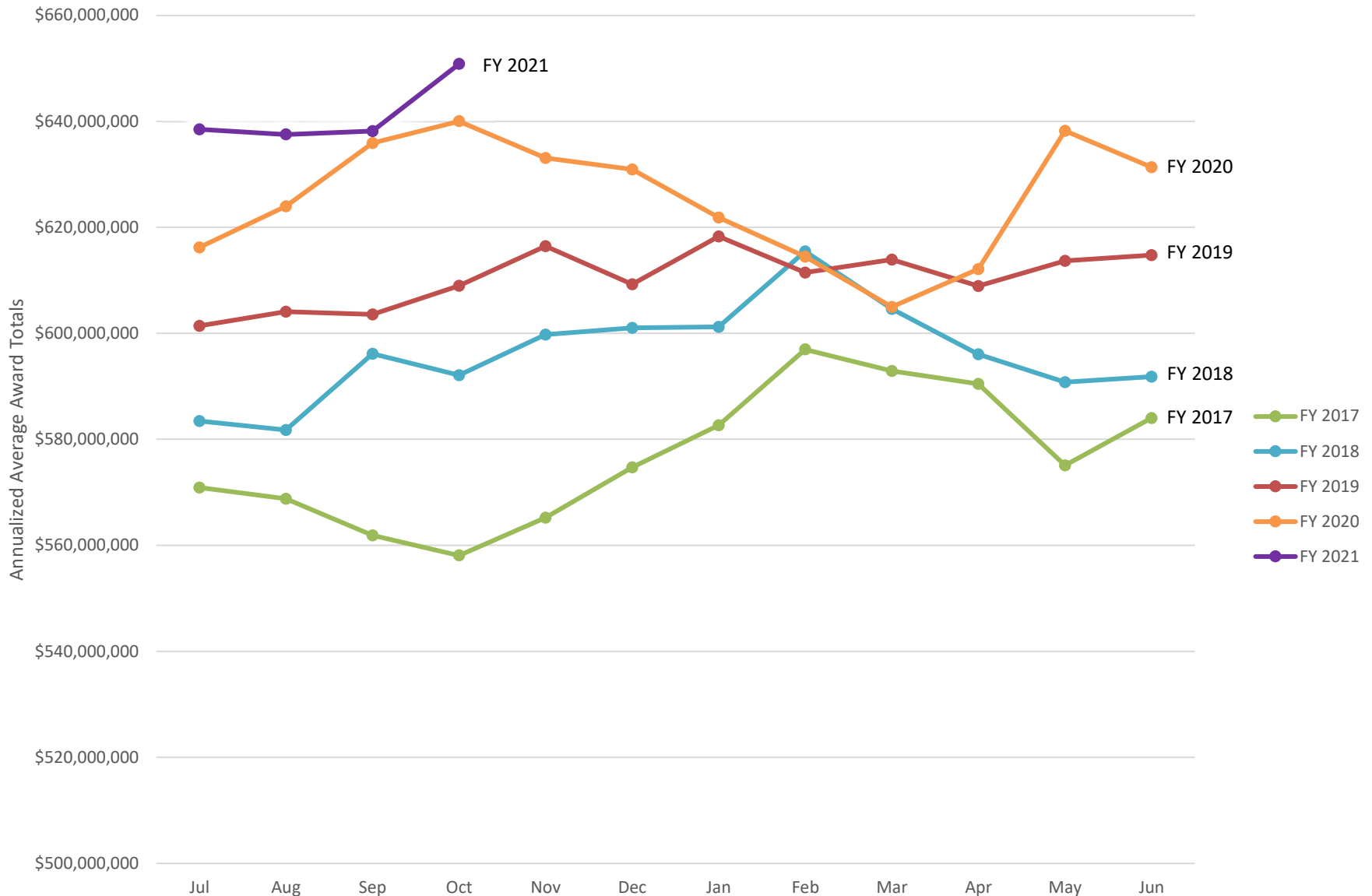
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$171,141,617	\$213,943,943	25.0%
State of Michigan	\$4,889,522	\$3,790,314	-22.5%
Other	\$9,715,173	\$8,522,273	-12.3%
Industry/CO	\$4,199,399	\$3,055,324	-27.2%
Foundation	\$21,248,223	\$8,985,786	-57.7%
Association	\$1,267,734	\$1,144,789	-9.7%
Research - Total	\$212,461,668	\$239,442,429	12.7%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$31,715,425	\$41,569,259	31.1%
State of Michigan	\$3,826,901	\$34,741,660	807.8%
Other	\$19,680,478	\$12,579,887	-36.1%
Industry/CO	\$4,723,388	\$1,769,226	-62.5%
Foundation	\$5,970,099	\$6,397,599	7.2%
Association	\$148,308	\$138,470	-6.6%
Various Donors - Advancement	\$47,598,496	\$36,165,589	-24.0%
Non-Research - Total	\$113,663,095	\$133,361,691	17.3%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	\$202,857,041	\$255,513,201	26.0%
State of Michigan	\$8,716,423	\$38,531,974	342.1%
Other	\$29,395,651	\$21,102,160	-28.2%
Industry/CO	\$8,922,787	\$4,824,550	-45.9%
Foundation	\$27,218,322	\$15,383,386	-43.5%
Association	\$1,416,042	\$1,283,259	-9.4%
Various Donors - Advancement	\$47,598,496	\$36,165,589	-24.0%
TOTAL	\$326,124,763	\$372,804,119	14.3%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	620	652	5.2%
State of Michigan	41	31	-24.4%
Other	188	156	-17.0%
Industry/CO	146	118	-19.2%
Foundation	70	50	-28.6%
Association	75	86	14.7%
Research - Total	1,140	1,093	-4.1%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	131	144	9.9%
State of Michigan	32	21	-34.4%
Other	51	68	33.3%
Industry/CO	113	60	-46.9%
Foundation	53	48	-9.4%
Association	9	9	0.0%
Various Donors - Advancement	2	2	0.0%
Non-Research - Total	391	352	-10.0%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	751	796	6.0%
State of Michigan	73	52	-28.8%
Other	239	224	-6.3%
Industry/CO	259	178	-31.3%
Foundation	123	98	-20.3%
Association	84	95	13.1%
Various Donors - Advancement	2	2	0.0%
TOTAL	1,531	1,445	-5.6%

Michigan State University 3 Year Annualized Average Awards



Top 10 Awards for the December 18, 2020 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	State of Michigan	\$32,202,500	Mark Haas	State of Michigan	CONTROLLER	Modification	Student Services	07/31/2020 09/30/2020	CARES Act Funding from the State of Michigan (COVID-19)
2	Federal Government	\$8,000,000	Deanna East	US Dept of Agriculture	EXTENSION HEALTH AND NUTRITION	Modification	Public Service	10/01/2020 09/30/2021	Supplemental Nutrition Assistance Program
3	Federal Government	\$5,152,696	George Sundin	National Inst of Food & Agriculture	PLANT SOIL AND MICROBIAL SCIENCES	New	Research	09/01/2020 08/31/2024	Comprehensive fire blight management systems for the United States
4	Federal Government	\$3,750,000	Christoph Benning	US Dept of Energy	PLANT RESEARCH LABORATORY NAT SCIENCE	Modification	Research	12/01/1990 03/31/2023	Photosynthetic Energy Capture, Conversion and Storage: From Fundamental Mechanisms to Modular Engineering
5	Federal Government	\$2,901,575	Nigel Paneth	National Inst of Health	EPIDEMIOLOGY AND BIOSTATISTICS	Modification	Research	09/21/2016 08/31/2023	Prenatal Exposures and Child Health Outcomes: A Statewide Study
6	Foundation	\$2,200,221	Richard Pirog	W K Kellogg Foundation	DEPARTMENT OF COMMUNITY SUSTAINABILITY	Modification	Public Service	08/01/2018 07/31/2022	Ensuring a resilient Good Food movement in Michigan for thriving children and families
7	Federal Government	\$2,137,302	Jens Schmidt	National Inst of Health	INSTITUTE FOR QUANTITATIVE HEALTH	New	Research	09/30/2020 05/31/2025	Single-molecule Analysis of the DNA Damage Response in Living Cells
8	Federal Government	\$2,106,866	Rufus Isaacs	National Inst of Food & Agriculture	ENTOMOLOGY AGRICULTURE AND NATURAL RES	New	Research	09/01/2020 08/31/2024	Optimizing blueberry pollination to ensure future yields
9	Federal Government	\$2,000,000	John Dorgan	National Science Foundation	CHEMICAL ENGINEERING AND MATERIALS SCI	New	Research	10/01/2020 09/30/2024	EFRI E3P: Reincarnation of Polymers for the Circular Economy
10	Foundation	\$1,644,366	Joseph Krajcik	George Lucas Educational Foundation	CREATE FOR STEM	New	Research	09/01/2020 08/31/2022	Understanding Adaptations in ML-PBL
	TOTAL	\$62,095,526							

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
	COLLEGE OF AGRICULTURE AND NAT RESOURCES				
1	\$66,618	MISSISSIPPI STATE UNIV	Belton, Benjamin	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	HARNESSING MACHINE LEARNING TO ESTIMATE AQUACULTURE PRODUCTION AND VALUE CHAIN PERFORMANCE IN BANGLADESH
2	\$200,000	LIVELIHOODS & FOOD SECURITY TRUST	Boughton, Duncan	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	BUILDING THE EVIDENCE FOUNDATION FOR PROMOTION OF AGRIFOOD VALUE CHAIN DEVELOPMENT, SMALL FARM MODERNIZATION & RURAL LIVELIHOODS IN MYANMAR
3	\$674,715	INTL FOOD POLICY RESEARCH INST	Boughton, Duncan	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FEED THE FUTURE BURMA AGRICULTURE POLICY SUPPORT ACTIVITY
4	\$499,972	NATIONAL INST OF FOOD & AGRICULTURE	Horan, Rick	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	A BIOECONOMIC APPROACH TO MANAGING SPATIAL WILDLIFE-LIVESTOCK DISEASE RISKS AND VALUING ECOSYSTEM (DIS-) SERVICES
5	\$7,500	WORLD BANK	Jin, Songqing	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	EVALUATING THE IMPLEMENTATION AND EFFECTS OF THE 2013 VIETNAM LAND LAW
6	\$354,357	US AGENCY FOR INTL DEVELOPMENT	Liverpool-Tasie, Lenis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ENHANCING KNOWLEDGE AND CAPACITY TO STRENGTHEN AGRICULTURAL AND FOOD SECURITY POLICY PROCESSES IN NIGERIA
7	\$15,000	WORLD FISH	Liverpool-Tasie, Lenis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	IMPACTS OF COVID-19 PANDEMIC AND RELATED POLICY RESPONSES ON FISH SUPPLY CHAINS IN ALL SIX GEOPOLITICAL ZONES OF NIGERIA
8	\$70,216	TEXAS A&M UNIV	Loveridge, Scott	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	MAPPING ECONOMIC OPPORTUNITY IN RURAL AMERICA: MINING BIG DATA FOR DECISION MAKING IN BUSINESS DEVELOPMENT
9	\$93,620	UNIVERSITY OF MINNESOTA DULUTH	Malone, Trey	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	"GREAT LAKES SEA GRANT AQUACULTURE COLLABORATIVE"
10	\$85,756	US AGENCY FOR INTL DEVELOPMENT	Maredia, Mywish	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	AGRICULTURE AND NUTRITION POLICY ACTIVITY TANZANIA ASSOCIATE AWARD
11	\$175,820	US AGENCY FOR INTL DEVELOPMENT	Tschirley, David	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FEED THE FUTURE INNOVATION LAB FOR FOOD SECURITY POLICY RESEARCH, CAPACITY, AND INFLUENCE
12	\$323,916	NATIONAL INST OF HEALTH	Huang, Wen	ANIMAL SCIENCE DEPARTMENT ANR	GENETIC VARIATION AND EVOLUTION OF TRANSLATIONAL CONTROL IN DROSOPHILA
13	\$255,793	NATIVE MICROBIALS INC	Vandehaar, Michael	ANIMAL SCIENCE DEPARTMENT ANR	DUS2004 MSU PRODUCTION PERFORMANCE OF GALAXIS 1.0 AND GALAXIS 2.0
14	\$500,000	AGRICULTURE & FOOD RESEARCH INITIATIVE	Zhou, Zheng	ANIMAL SCIENCE DEPARTMENT ANR	INFLUENCE OF BRANCHED CHAIN AMINO ACIDS AND BRANCHED CHAIN KETOACIDS ON LIVER LIPID ACCUMULATION IN DAIRY COWS DURING EARLY LACTATION

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
15	\$25,483	VARIOUS INDUSTRIES	Kirk, Dana	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	FEE FOR SERVICE - DANA KIRK
16	\$37,001	US DEPT OF AGRICULTURE	Liu, Yan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	A COST-EFFECTIVE AND EFFICIENT APPROACH TO INVESTIGATE THE EFFECTS OF THE CHITIN RICH FERTILIZER ON POTATO PRODUCTION AND PEST CONTROL IN FIELD TRIALS
17	\$465,067	NATIONAL INST OF HEALTH	Mitchell, Jade	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	QMRA IV- QUANTITATIVE MICROBIAL RISK ASSESSMENT INTERDISCIPLINARY VEHICLE: ADDRESSING EMERGING GLOBAL HEALTH RISKS
18	\$75,000	KANSAS STATE UNIV	Nejadhashemi, Amirpouyan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	GEOSPATIAL, FARMING SYSTEMS, AND DIGITAL TOOLS CONSORTIUM – BUILDING A NEW ERA OF PREDICTIVE AGRICULTURAL INNOVATION TO IMPROVE THE LIVELIHOOD OF SMALLHOLDER FARMERS
19	\$32,876	DTE ENERGY	Surbrook, Truman	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MAEC DUES - GENERAL RESEARCH
20	\$14,071	MICHIGAN ELECTRIC COOPERATIVE ASSOC	Surbrook, Truman	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MAEC DUES 2020
21	\$53,509	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	Brunacini, Jessica	DEPARTMENT OF COMMUNITY SUSTAINABILITY	BROADENING PARTICIPATION TO BUILD RESILIENCE: WELLS, MAINE
22	\$70,000	MICHIGAN DEPT OF EDUCATION	Forbush, Mark	DEPARTMENT OF COMMUNITY SUSTAINABILITY	2020/21 OCTE GRANT
23	\$988,241	FOUNDATION FOR FOOD & AGRICULTURE RESEARCH	Gray, Steven	DEPARTMENT OF COMMUNITY SUSTAINABILITY	FINDING THE PROPER LEVERS: IDENTIFYING LEVERAGE POINTS FOR TRANSFORMATION IN URBAN FOOD SYSTEMS THROUGH PARTICIPATORY MODELING
24	\$30,549	WASHINGTON STATE UNIV	Howard, Philip	DEPARTMENT OF COMMUNITY SUSTAINABILITY	APPLE TO GLASS: IMPROVING ORCHARD PROFITABILITY THROUGH DEVELOPING REGIONAL CRAFT CIDERS
25	\$60,292	NATIONAL INST OF FOOD & AGRICULTURE	McKim, Aaron	DEPARTMENT OF COMMUNITY SUSTAINABILITY	LOCALLY-INTEGRATED FOOD TEAMS IN THE UPPER PENINSULA (LIFT-UP): USING LAND-BASED LEARNING TO ESTABLISH FARM-TO-SCHOOL MARKETS IN RURAL MICHIGAN
26	\$75,000	NATIONAL SCIENCE FOUNDATION	Olabisi, Michael Adetayo	DEPARTMENT OF COMMUNITY SUSTAINABILITY	TRADE AND GLOBAL ECONOMIC SHOCKS: A NETWORK PERSPECTIVE
27	\$2,200,221	W K KELLOGG FOUNDATION	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	ENSURING A RESILIENT GOOD FOOD MOVEMENT IN MICHIGAN FOR THRIVING CHILDREN AND FAMILIES

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
28	\$13,076	FAIR FOOD NETWORK	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	COMPREHENSIVE AND INTEGRATED CENTER FOR NUTRITION INCENTIVE PROGRAM TRAINING, TECHNICAL ASSISTANCE, EVALUATION AND REPORTING
29	\$746,480	AGRICULTURAL MARKETING SERVICE	Rahrig, Jamie	DEPARTMENT OF COMMUNITY SUSTAINABILITY	REGIONAL FOOD SYSTEM PARTNERSHIPS
30	\$60,000	MICHIGAN DEPT OF EDUCATION	Wyrick, David	DEPARTMENT OF COMMUNITY SUSTAINABILITY	FFA (FUTURE FARMERS OF AMERICA) 2020-2021
31	\$9,000	MICHIGAN CHERRY COMMITTEE	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	OPTIMIZED PLACEMENT FOR WINTER-MORPH SPOTTED WING DROSOPHILA MONITORING TRAPS.
32	\$208,507	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPMENT AND DELIVERY OF POST-HARVEST SPOTTED WING DROSOPHILA CULTURAL CONTROL TACTICS FOR NCR TART CHERRY GROWERS
33	\$18,000	MICHIGAN CHERRY COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MONITORING AND MANAGEMENT OF SPOTTED WING DROSOPHILA IN MICHIGAN CHERRIES
34	\$6,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	INVESTIGATING SPOTTED WING DROSOPHILA MOVEMENT BETWEEN NONCROP AND CROP AREAS
35	\$2,106,866	NATIONAL INST OF FOOD & AGRICULTURE	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	OPTIMIZING BLUEBERRY POLLINATION TO ENSURE FUTURE YIELDS
36	\$324,998	NATIONAL INST OF FOOD & AGRICULTURE	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESTOCKING THE IPM TOOLBOX TO MEET INSECT MANAGEMENT CHALLENGES IN HIGHBUSH BLUEBERRY
37	\$419,475	UNIVERSITY OF GEORGIA	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MOVING FROM CRISIS RESPONSE TO LONG-TERM INTEGRATED MANAGEMENT OF SWD: A KEYSTONE PEST OF FRUIT CROPS IN THE UNITED STATES
38	\$250,000	FOREIGN AGRICULTURAL SERVICE	Jiang, Wayne	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ENHANCING THE SCIENCE-BASED REGULATORY STANDARDS FOR PROCESSED FOOD INGREDIENTS IN GULF STANDARDIZATION ORGANIZATION
39	\$105,000	FOREIGN AGRICULTURAL SERVICE	Jiang, Wayne	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PROMOTING SCIENCE AND RULES BASED - ENHANCING THE SCIENCE-BASED REGULATORY STANDARDS FOR PROCESSED FOOD INGREDIENTS IN INDIA AND CHINA
40	\$23,052	COUNTY OF SAGINAW	Kaufman, Michael	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ARBO-VIRAL DISEASE TESTING OF SERO SAMPLES AND MOSQUITO POOLS FOR SLE, EEE, WNV, AND CALIFORNIA GROUP ENCEPHALITIS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
41	\$307,264	NEW PARTNERSHIPS FOR AFRICA'S DEVELOPMENT	Maredia, Karimbhai	ENTOMOLOGY AGRICULTURE AND NATURAL RES	AFRICAN BIOSAFETY NETWORK OF EXPERTISE: PHASE 3 AUDA-NEPAD PROGRAM
42	\$86,000	USDA FOREST SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EMERALD ASH BORER NATIONAL INFORMATION NETWORK AND KITS
43	\$111,036	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BLACK ASH AND EAB
44	\$599,999	NATIONAL INST OF FOOD & AGRICULTURE	Mota-Sanchez, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	LA COSECHA (THE HARVEST) 2020: EXPANDING THE SUCCESS AND SUSTAINABILITY OF FARMING FOR BEGINNING LATINO FARMERS
45	\$40,134	MISSISSIPPI STATE UNIV	Pechal, Jennifer	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NO LONGER BUGGED BY FEED COSTS: FARMING INSECTS AS SUSTAINABLE AND SCALABLE AQUACULTURE FEEDSTOCK TO IMPROVE CATFISH (CLARIDAE) PRODUCERS' AND CONSUMERS' LIVELIHOODS TOWARDS FOOD SECURITY IN NIGERIA
46	\$27,000	BAYER CROPS SCIENCE	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BAYER NEMATICIDE TESTING TRIALS
47	\$8,000	MORGAN COMPOSTING INC	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MORGAN COMPOSTING GIFT
48	\$28,000	SYNGENTA CROP PROTECTION INC	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SYNGENTA NEMATICIDE TESTING TRIALS
49	\$19,861	MICHIGAN WHEAT PROGRAM	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	FIRST PLANT-PARASITIC NEMATODE DISTRIBUTION SURVEY IN REPRESENTATIVE WHEAT GROWING AREAS IN MICHIGAN
50	\$12,050	AGRICULTURAL RESEARCH SERVICE	Ravlin, Bill	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EMERALD ASH BORER BIOCONTROL PROJECT
51	\$75,214	RUTGERS UNIV	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PROTECTING POLLINATORS WITH ECONOMICALLY FEASIBLE AND ENVIRONMENTALLY SOUND ORNAMENTAL HORTICULTURE
52	\$182,647	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	FACILITATING SPREAD OF THE HOST-SPECIFIC FUNGAL PATHOGEN, <i>OVAVESICULA POPILLIAE</i> , FOR LONG-TERM SUPPRESSION OF JAPANESE BEETLE
53	\$12,330	MICHIGAN STATE HORTICULTURAL SOCIETY	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MASS REARING AND RELEASE OF THE SAMURAI WASP, A NATURAL ENEMY OF BROWN MARMORATED STINK BUG

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
54	\$18,694	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
55	\$21,744	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SUPPORT FOR THE ON-GOING APPLE REPLANT EXPERIMENT AT CLARKSVILLE RESEARCH CENTER
56	\$10,000	MICHIGAN CHERRY COMMITTEE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESIDUE DECLINE STUDY FOR BIFENTHRIN ON CHERRIES
57	\$260,000	USDA FOREST SERVICE	Ziegler, Amos	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NATIONAL SLOW THE SPREAD OF THE GYPSY MOTH (STS) PROJECT: NORTHERN REGIONAL DATABASE NODE
58	\$229,600	MICHIGAN DEPT OF NATURAL RESOURCES	Ziegler, Amos	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MISIN - BRIDGING THE GAP AND CLOSING THE LOOP ON INVASIVE SPECIES DATA IN MICHIGAN
59	\$25,000	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Ziegler, Amos	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EAB BIOLOGICAL CONTROL MOBILE DATA COLLECTION FOR RELEASE, RECOVERY AND EVALUATION
60	\$16,703	GREAT LAKES FISHERY COMMISSION	Bence, James	FISHERIES AND WILDLIFE	EVALUATING AGE- AND LENGTH-BASED MODELS FOR ASSESSING LAKE TROUT
61	\$25,000	MICHIGAN DEPT OF NATURAL RESOURCES	Brenden, Travis	FISHERIES AND WILDLIFE	EVALUATION OF MICHIGAN DNR LAKE HURON'S ATLANTIC SALMON STOCKING PROGRAM - PART 2
62	\$220,000	MICHIGAN DEPT OF NATURAL RESOURCES	Campa, Henry	FISHERIES AND WILDLIFE	BOVINE TUBERCULOSIS ERADICATION COLLABORATIVE ADAPTIVE MANAGEMENT PROGRAM (BTB ERADICATION CAMP)
63	\$8,950	ROCKY MOUNTAIN ELK FOUNDATION	Campa, Henry	FISHERIES AND WILDLIFE	EFFECTS OF UNGULATE BROWSE ON ASPEN COMMUNITIES
64	\$31,278	MICHIGAN DEPT OF ENVIRONMENTAL QUALITY	Dreelin, Erin	FISHERIES AND WILDLIFE	GENETIC MARKERS FOR SOURCE TRACKING PROJECT
65	\$1,326,694	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Dreelin, Erin	FISHERIES AND WILDLIFE	SURVEILLANCE FOR SARS-COV-2 IN WASTEWATER
66	\$20,621	MICHIGAN DEPT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	CLARIFYING KEY UNCERTAINTIES TO SUCCESSFUL REINTRODUCTION OF ARCTIC GRAYLING IN MICHIGAN STREAMS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
67	\$85,679	MICHIGAN DEPT OF NATURAL RESOURCES	Infante, Dana	FISHERIES AND WILDLIFE	GREAT LAKES AND INLAND GIS SUPPORT AND DEVELOPMENT FOR MICHIGAN (STATE WILDLIFE ACTION PLAN) SWAP IMPLEMENTATION MSU REF. RC104616
68	\$146,236	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Infante, Dana	FISHERIES AND WILDLIFE	MODIFICATIONS TO THE HIGH RESOLUTION NATIONAL HYDROGRAPHY DATASET: ENHANCING MICHIGAN'S WATER WITHDRAWAL ASSESSMENT TOOL
69	\$141,455	US GEOLOGICAL SURVEY	Infante, Dana	FISHERIES AND WILDLIFE	RESEARCH MANAGEMENT AND COMMUNICATION PERTAINING TO CONSERVATION GENETICS AND BIODIVERSITY OF AQUATIC SPECIES WITHIN THE GREAT LAKES BASIN
70	\$40,000	US FISH & WILDLIFE SERVICE	Infante, Dana	FISHERIES AND WILDLIFE	PHASE 3: BUILDING CAPACITY FOR MIDWEST GLACIAL LAKES PARTNERSHIP CONSERVATION
71	\$126,288	MICHIGAN DEPT OF NATURAL RESOURCES	Infante, Dana	FISHERIES AND WILDLIFE	SUPPORT FOR REVISION OF STATE WILDLIFE ACTION PLAN
72	\$13,615	UNIVERSITY OF MISSOURI	Infante, Dana	FISHERIES AND WILDLIFE	MODELING WATER QUALITY AND IN-STREAM BIOLOGICAL ENDPOINTS OF AGRICULTURAL CONSERVATION IN THE MISSISSIPPI RIVER BASIN
73	\$50,633	GREAT LAKES FISHERY COMMISSION	Jones, Michael	FISHERIES AND WILDLIFE	GLFC PERM JONES - SALARY AND FRINGE
74	\$348,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Latimore, Jo	FISHERIES AND WILDLIFE	MICHIGAN CLEAN WATER CORPS (MICORPS) PROGRAM ADMINISTRATION
75	\$385,225	GREAT LAKES FISHERY COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	DR. WEIMING LI PERM AGREEMENT - YEAR 6
76	\$75,693	GREAT LAKES FISHERY TRUST	Li, Weiming	FISHERIES AND WILDLIFE	CHARACTERIZATION OF OLFACTORY IMPRINTING TO INFORM RESTORATION OF LAKE STURGEON IN THE GREAT LAKES
77	\$280,000	MICHIGAN DEPT OF NATURAL RESOURCES	Loch, Thomas	FISHERIES AND WILDLIFE	DEVELOPMENT AND IMPLEMENTATION OF A FISH HEALTH INITIATIVE FOR MICHIGAN INLAND AND GREAT LAKES FISHERIES
78	\$310,000	US DEPT OF AGRICULTURE	Loch, Thomas	FISHERIES AND WILDLIFE	BREAKING VERTICAL TRANSMISSION CYCLES OF VIRULENT FLAVOBACTERIUM PSYCHROPHILUM SERO-/GENOTYPES
79	\$176,866	NEVADA DEPARTMENT OF WILDLIFE	Montgomery, Robert	FISHERIES AND WILDLIFE	USING NON-INVASIVE TECHNIQUES TO ESTIMATE THE ABUNDANCE AND OCCURRENCE OF BLACK BEARS (URSUS AMERICANUS) IN NEVADA

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
80	\$159,861	MICHIGAN DEPT OF NATURAL RESOURCES	Murphy, Cheryl	FISHERIES AND WILDLIFE	PFAS IN THE HURON RIVER WATERSHED: TRANSPORT AND UPTAKE BY AQUATIC ORGANISMS
81	\$58,496	GREAT LAKES FISHERY COMMISSION	Robinson, Kelly	FISHERIES AND WILDLIFE	MSU - RC105957, GLFC ACCOUNT #71002 - KELLY ROBINSON PERM 2018-2019
82	\$200,000	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	UNDERSTANDING AND MINIMIZING NEGATIVE ECOLOGICAL IMPACTS OF TRAILS IN MICHIGAN
83	\$92,196	TEMPLE UNIV	Rose, Joan	FISHERIES AND WILDLIFE	COVID TESTING PHILADELPHIA
84	\$23,793	MICHIGAN DEPT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	IMPLEMENTING AND EVALUATING RESPONSE ACTIONS FOR RED SWAMP CRAYFISH IN MICHIGAN
85	\$59,972	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Roth, Brian	FISHERIES AND WILDLIFE	DETERMINATION OF LAKE BATHYMETRY FOR LAKE VOLUME CALCULATIONS ASSOCIATED WITH LAKES SENSITIVE TO LARGE QUANTITY WITHDRAWALS.
86	\$10,000	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	GENETIC ANALYSES OF INLAND MICHIGAN LAKE POPULATIONS OF LAKE HERRING USING MICROSATELLITE GENOTYPING.
87	\$278,185	US FISH & WILDLIFE SERVICE	Scribner, Kim	FISHERIES AND WILDLIFE	DEVELOPMENT AND APPLICATION OF EDNA BIODIVERSITY SURVEY TOOLS TO IDENTIFY CRITICAL HABITAT FOR WETLAND HERPETOLOGICAL COMMUNITIES IN THE GREAT LAKES
88	\$254,068	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	REHABILITATION OF LAKE STURGEON POPULATIONS IN MICHIGAN
89	\$305,679	NATIONAL INST OF HEALTH	Paneth, Nigel	FOOD SCIENCE AND HUM NUTRITION ANR	PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES: A STATEWIDE STUDY
90	\$16,560	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Rogers, Gail	FOOD SCIENCE AND HUM NUTRITION ANR	MSU/WIC DIETETIC INTERNSHIP 2020-21 (MA-2020)
91	\$119,256	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	Strakovsky, Rita	FOOD SCIENCE AND HUM NUTRITION ANR	CUMULATIVE EFFECTS OF PRENATAL STRESS AND CHEMICAL EXPOSURES ON CHILD DEVELOPMENT
92	\$106,660	AMER FORESTS	Cooper, Lauren	FORESTRY	IMPACTS OF FOREST MANAGEMENT ON CARBON SEQUESTRATION AND STORAGE IN THE LAKE STATES FOR CLIMATE CHANGE MITIGATION

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
93	\$85,000	USDA FOREST SERVICE	Dowtin, Asia	FORESTRY	URBAN-WILDFIRE (FORESTRY INTEGRATIVE RESEARCH EXPERIENCE): A TSU AND MSU COLLABORATIVE LEARNING OPPORTUNITY
94	\$125,000	USDA FOREST SERVICE	Finley, Andrew	FORESTRY	SMALL DOMAIN ESTIMATION USING STRATEGIC-LEVEL FOREST INVENTORY DATA AND AUXILIARY INFORMATION
95	\$105,838	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Finley, Andrew	FORESTRY	NASA-USFS PARTNERSHIP TO ADVANCE OPERATIONAL FOREST CARBON MONITORING IN INTERIOR ALASKA
96	\$195,768	NATIONAL SCIENCE FOUNDATION	Finley, Andrew	FORESTRY	COLLABORATIVE PROPOSAL: REDEFINING THE ECOLOGICAL MEMORY OF DISTURBANCE OVER MULTIPLE TEMPORAL AND SPATIAL SCALES IN FOREST ECOSYSTEMS
97	\$149,997	USDA FOREST SERVICE	Finley, Andrew	FORESTRY	ADVANCING FOREST HEALTH BY INVESTIGATING CHANGES IN FOREST MORTALITY WITH THE APPLICATION OF THE COMPUTER LANGUAGE R TO THE FOREST INVENTORY ANALYSIS (RFIA)
98	\$749,000	NATIONAL INST OF FOOD & AGRICULTURE	Kunkle, Justin	FORESTRY	A NEW MODEL FOR FORESTRY EDUCATION IN UNDERREPRESENTED AND RURAL COMMUNITIES: A STRATEGIC ALLIANCE FOR BUILDING, EXPANDING AND SUSTAINING PATHWAYS TO CAREERS IN FORESTRY
99	\$449,653	US DEPT OF AGRICULTURE	Randall, Jesse	FORESTRY	CREATING THE NEXT GENERATION OF MODERN MAPLE PRODUCERS BY PAIRING THE LAND GRANT UNIVERSITY MISSION WITH FFA STUDENT CHAPTERS, TRIBAL SCHOOLS, AND FORESTRY CLUBS ACROSS THE UPPER MIDWEST
100	\$30,000	MICHIGAN DEPT OF NATURAL RESOURCES	Randall, Jesse	FORESTRY	FY20: WESTERN U.P. OAK WILT SUPPRESSION
101	\$53,119	MICHIGAN DEPT OF NATURAL RESOURCES	Rothstein, David	FORESTRY	A COMPREHENSIVE APPROACH TO DENSITY MANAGEMENT OF JACK PINE PLANTATIONS IN KIRTLAND'S WARBLER MANAGEMENT AREAS
102	\$12,500	FINE AMERICAS INC	Beaudry, Randolph	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF POSTHARVEST BIOLOGY AND TECHNOLOGY RESEARCH.
103	\$68,000	MICHIGAN TREE FRUIT COMMISSION	Beaudry, Randolph	HORTICULTURE ANR	UPDATE OF MSU CONTROLLED ATMOSPHERE STORAGE RESEARCH FACILITY
104	\$20,000	MICHIGAN APPLE COMMITTEE	Beaudry, Randolph	HORTICULTURE ANR	BITTER PIT CHARACTERIZATION, PREDICTION, AND MITIGATION IN HONEYCRISP
105	\$20,000	MICHIGAN APPLE COMMITTEE	Beaudry, Randolph	HORTICULTURE ANR	DYNAMIC CONTROLLED ATMOSPHERE (DCA) STORAGE: MAXIMIZING STORABILITY WHILE REDUCING DISORDERS
106	\$6,290	VAN DRUNEN FARMS	Chaudhari, Sushila	HORTICULTURE ANR	UNRESTRICTED GIFT IN WEED MANAGEMENT RESEARCH

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
107	\$24,384	CHRISTMAS TREE PROMOTION BOARD	Cregg, Bert	HORTICULTURE ANR	MANAGING CONE FORMATION IN ABIES CHRISTMAS TREE SPECIES
108	\$101,900	NORTH CAROLINA STATE UNIV	Edger, Patrick	HORTICULTURE ANR	VACCINIUMCAP: LEVERAGING GENETIC AND GENOMIC RESOURCES TO ENABLE DEVELOPMENT OF IMPROVED BLUEBERRY AND CRANBERRY CULTIVARS TO GROWERS AND CONSUMERS
109	\$25,000	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	PGR STRATEGIES TO REDUCE BITTERPIT OF HONEYCRISP
110	\$25,000	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	NEW THINNING STRATEGIES TO IMPROVE APPLE PROFITABILITY AND PREDICTABILITY
111	\$160,209	CORNELL UNIV	Einhorn, Todd	HORTICULTURE ANR	PRECISION CROP LOAD MANAGEMENT FOR APPLES
112	\$25,211	JUDY DELAPA	Getter, Kristin	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF PERENNIAL PLANT RESEARCH.
113	\$16,447	MICHIGAN CHERRY COMMITTEE	Iezzoni, Amy	HORTICULTURE ANR	BREEDING HIGH QUALITY DISEASE RESISTANT TART CHERRY VARIETIES AND ROOTSTOCKS
114	\$11,000	INTL FRUIT TREE ASSOC	Lang, Gregory	HORTICULTURE ANR	UNRESTRICTED GIFT IN FRUIT TREE RESEARCH.
115	\$46,000	CORNELL UNIV	Lang, Gregory	HORTICULTURE ANR	ACCELERATING THE DEVELOPMENT, EVALUATION, AND ADOPTION OF NEW APPLE ROOTSTOCK TECHNOLOGIES TO IMPROVE APPLE GROWERS PROFITABILITY AND SUSTAINABILITY
116	\$12,900	BALL HORTICULTURAL CO	Lopez, Roberto	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF FLORICULTURE RESEARCH
117	\$9,000	FRED C GLOECKNER FOUNDATION	Lopez, Roberto	HORTICULTURE ANR	DEVELOPING PROPAGATION AND PRODUCTION PROTOCOLS FOR POTTED CULINARY HERBS
118	\$10,000	FRED C GLOECKNER FOUNDATION	Lopez, Roberto	HORTICULTURE ANR	QUANTIFYING THE INFLUENCE OF SUBSTRATE AND WATER TEMPERATURE ON CALADIUM PRODUCTION
119	\$20,000	MICHIGAN NURSERY & LANDSCAPE ASSOC	Saha, Debalina	HORTICULTURE ANR	THE SAGACIOUS AND SHREWD WEED CONTROL IMPERATIVE FOR HERBACEOUS PERENNIALS
120	\$29,070	US DEPT OF AGRICULTURE	Song, Guo-Qing	HORTICULTURE ANR	AMENDMENT 3 TO AGREEMENT 58-8060-6-009
121	\$138,920	NATIONAL INST OF FOOD & AGRICULTURE	Poitra, Christie	NATIVE AMERICAN INSTITUTE	GROWING NATIVE AMERICAN STUDENT PATHWAYS INTO AGRICULTURE
122	\$14,000	VARIOUS INDUSTRIES	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHILVERS PSM TESTING

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
123	\$39,956	MICHIGAN WHEAT PROGRAM	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHARACTERIZING FUNGICIDE SENSITIVITY OF DIVERSE FUSARIUM SPP. AND DETERMINATION OF VALUE OF FUNGICIDE APPLICATIONS THROUGH META-ANALYSIS
124	\$23,000	VARIOUS INDUSTRIES	Cichy, Karen	PLANT SOIL AND MICROBIAL SCIENCES	POTATO TESTING
125	\$42,790	VARIOUS INDUSTRIES	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DOUCHES PSM TESTING
126	\$15,000	AGRICULTURAL RESEARCH SERVICE	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	HYPERSPECTRAL IMAGING FOR EARLY DETECTION AND CONTROL OF POTATO DISEASES
127	\$35,000	INTER AMER INST FOR COOPERATION ON AGRICULTURE	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DAMAGE BY PHTHORIMAEA OPERCULELLA AND TECIA SOLANIVORA ON POTATOES AND RESISTANT CULTIVARS EVALUATION AS CONTROL ALTERNATIVES IN GUATEMALA
128	\$69,484	AGRICULTURAL RESEARCH SERVICE	Gomez, Francisco	PLANT SOIL AND MICROBIAL SCIENCES	BEAN FLOUR EVALUATION AND PRODUCT DEVELOPMENT
129	\$97,476	CORNELL UNIV	Gomez, Francisco	PLANT SOIL AND MICROBIAL SCIENCES	FEED THE FUTURE INNOVATION LAB FOR CROP IMPROVEMENT (CIIL)
130	\$843,752	NATIONAL INST OF FOOD & AGRICULTURE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	NORTH CENTRAL PLANT DIAGNOSTIC NETWORK
131	\$191,600	CLEMSON UNIV	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	SOLUTIONS TO THE ARMILLARIA ROOT ROT THREAT AFFECTING THE U.S. STONE FRUIT INDUSTRY
132	\$74,600	VARIOUS INDUSTRIES	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	HAUSBECK PSM TESTING
133	\$80,566	MICHIGAN ASPARAGUS ADVISORY BOARD	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	IMPROVING STRATEGIES TO LIMIT ROOT ROTS FOR MICHIGAN ASPARAGUS.
134	\$116,279	AGRICULTURAL RESEARCH SERVICE	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	ADVANCING NOVEL TACTICS AND TRIAGING FUNGICIDE RESISTANCE FOR BOTRYTIS CINEREA AND OTHER PROFIT-LIMITING PATHOGENS
135	\$10,944	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
136	\$38,445	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
137	\$65,758	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
138	\$95,590	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
139	\$5,533	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH SALARY FUNDING
140	\$118,500	VARIOUS INDUSTRIES	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MILES PSM TESTING
141	\$18,000	AGRICULTURAL RESEARCH SERVICE	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	FLUDIOXONIL RESISTANCE IN BOTRYTIS CINEREA
142	\$10,000	MICHIGAN TURFGRASS FOUNDATION	Nikolai, Thomas	PLANT SOIL AND MICROBIAL SCIENCES	2020-21 TURFGRASS RESEARCH
143	\$38,320	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DOUBLED HAPLOIDS IN SOFT WINTER WHEAT BREEDING AT MSU [YEAR 2]
144	\$33,173	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	2021 HIGH-MANAGEMENT TESTING OF MICHIGAN WHEAT VARIETIES
145	\$75,457	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING SOFT WINTER WHEAT VARIETIES FOR MICHIGAN 2021
146	\$31,106	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	EARLY GENERATION SELECTION FOR RESISTANCE TO FUSARIUM HEAD BLIGHT AND RUST PATHOGENS DURING RAPID EARLY GENERATION ADVANCEMENT IN WHEAT VARIETY DEVELOPMENT
147	\$20,000	VARIOUS INDUSTRIES	Penner, Donald	PLANT SOIL AND MICROBIAL SCIENCES	PENNER PSM TESTING
148	\$7,244	MICHIGAN WHEAT PROGRAM	Pennington, Dennis	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING THE GREAT LAKES YIELD ENHANCEMENT NETWORK: MICHIGAN PARTICIPATION
149	\$245,623	OHIO STATE UNIV	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT AND EVALUATION OF PATHWAYS TO NET-ZERO EMISSION CROPPING SYSTEMS
150	\$43,996	MICHIGAN WHEAT PROGRAM	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING THE ROLE OF SEED PLACEMENT AND PLANTING STRATEGIES IN OPTIMIZING YIELD, QUALITY, AND PROFITABILITY IN WINTER WHEAT
151	\$46,800	VARIOUS INDUSTRIES	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	SPRAGUE PSM TESTING
152	\$20,582	MICHIGAN WHEAT PROGRAM	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	STRATEGIES TO MANAGE HORSEWEED [MARESTAIL] IN WINTER WHEAT

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
153	\$30,000	PURDUE UNIV	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	TAKE ACTION - MULTI STATE HERBICIDE RESISTANT CROPS AND WEEDS EDUCATIONAL PROGRAM
154	\$32,000	VARIOUS INDUSTRIES	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	STEINKE PSM TESTING
155	\$45,480	MICHIGAN WHEAT PROGRAM	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	START RIGHT TO FINISH WELL: NUTRIENT MANAGEMENT FOR WINTER WHEAT GRAIN AND STRAW PRODUCTION – YEAR 2
156	\$10,000	MICHIGAN CHERRY COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	ISOLATION AND ANALYSIS OF BACTERIOPHAGE TARGETING THE BACTERIAL CANKER PATHOGEN PSEUDOMONAS SYRINGAE: POTENTIAL FOR BIOCONTROL
157	\$21,495	MICHIGAN CHERRY COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SDHI FUNGICIDE SENSITIVITY IN THE AMERICAN BROWN ROT PATHOGEN MONILINIA FRUCTICOLA AND FUNGICIDE EVALUATIONS FOR BROWN ROT AND CHERRY LEAF SPOT MANAGEMENT
158	\$14,251	MICHIGAN TREE FRUIT COMMISSION	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN TREE FRUIT COMMISSION FUNDING REQUEST
159	\$50,600	VARIOUS INDUSTRIES	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SUNDIN PSM TESTING
160	\$29,055	NATIONAL SCIENCE FOUNDATION	Teppen, Brian	PLANT SOIL AND MICROBIAL SCIENCES	EAGER: COLLABORATIVE RESEARCH: NETWORKING FACULTY SEEDS FOR COLLECTIVE CHANGE IN THE GEOSCIENCES
161	\$204,775	UNIVERSITY OF NEBRASKA - LINCOLN	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	TGCM: (T)RAIT, (G)ENE, AND (C)ROP GROWTH (M)ODEL DIRECTED TARGETED GENE CHARACTERIZATION IN SORGHUM
162	\$89,200	VARIOUS INDUSTRIES	Vargas, Joseph	PLANT SOIL AND MICROBIAL SCIENCES	VARGAS PSM TESTING
163	\$7,623	VARIOUS INDUSTRIES	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	WANG TESTING PROJECTS
164	\$99,754	UNITED SOYBEAN BOARD	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	CONTINUE DEVELOPMENT AND COMMERCIALIZATION OF NON-GMO HIGH OLEIC VARIETIES IN MATURITY GROUPS I AND III
165	\$23,750	VARIOUS INDUSTRIES	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	WILLBUR PSM TESTING
166	\$16,000	AGRICULTURAL RESEARCH SERVICE	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	HYPERSPECTRAL IMAGING FOR EARLY DETECTION AND CONTROL OF POTATO DISEASES
167	\$35,000	US ARMY CORPS OF ENGINEERS	Cui, Yue	SCHOOL OF PLANNING DES CONSTRUCTION ANR	DR. YUE CUI 2020-21 IPA
168	\$24,217	NATIONAL SCIENCE FOUNDATION	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	UNDERSTANDING IMPACTS OF SOCIAL NETWORK INTERVENTIONS ON ENGINEERING PROJECT OUTCOMES

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
169	\$239,993	NATIONAL SCIENCE FOUNDATION	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	IIS#1928278 SUPPLEMENT: RESPONDING TO COVID-19 CHALLENGES IN PREPARATION OF FUTURE OF WORK
COLLEGE OF ARTS AND LETTERS					
170	\$50,000	OPEN SOCIETY FOUNDATIONS	Fitzpatrick, Kathleen	AL RESEARCH AND SCHOLARSHIP	HUMANITIES COMMONS
171	\$37,000	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	Hart-Davidson, William	AL RESEARCH AND SCHOLARSHIP	HUMANITIES WITHOUT WALLS SEED FUNDING AND VIDEO PROJECT
172	\$5,200	FEDERAL REPUBLIC OF GERMANY	Schuster-Craig, Johanna	LINGUISTICS,GERM,SLAVIC,ASIAN,AFR LANG	CAMPUS WEEKS 2020 - BUILDING TOMORROW PROGRAM
173	\$11,098	BRANDEIS UNIVERSITY	Yares, Laura	RELIGIOUS STUDIES	JEWISH LEARNING THROUGH THE CULTURAL ARTS
ELI BROAD COLLEGE OF BUSINESS					
174	\$236,520	US DEPT OF THE ARMY	Frayer, David	EXECUTIVE DEVELOPMENT PROGRAMS	ARMY WORKSPACE EXTENSION
COLLEGE OF COMMUNICATION ARTS SCIENCES					
175	\$23,276	UNIVERSITY OF DELAWARE	Ellithorpe, Morgan	ADVERTISING AND PUBLIC RELATIONS	MISLEADING MESSAGES, AMBIVALENT ATTITUDES: TEENS' HEALTH BELIEFS ON SPORTS DRINKS
176	\$43,220	SOCIAL SCIENCE RESEARCH COUNCIL	Thorson, Kjerstin	ADVERTISING AND PUBLIC RELATIONS	INFODROUGHT AND INFODEMIC: CONCEPTUALIZING INFORMATION VULNERABILITIES ON SOCIAL MEDIA
177	\$10,000	PUBLIC BROADCASTING SERVICE	Elkins (she/her/hers), Susi	BROADCASTING SERVICES	PBS BRAND REFRESH FOR THE DIGITAL AGE
178	\$126,234	UNIVERSITY OF DELAWARE	Deliyski, Dimitar	COMMUNICATIVE SCIENCES DISORDERS CAS	COGNITIVE AND BIOLOGICAL MECHANISMS IN PEDIATRIC VOICE THERAPY
179	\$57,754	BRIGHAM YOUNG UNIV	Hunter, Eric	COMMUNICATIVE SCIENCES DISORDERS CAS	IMAGING AND INFLUENCE OF GLOTTIC AND SUBGLOTTIC ANATOMY IN HEALTHY AND STENOTIC PATIENTS
180	\$25,000	KNIGHT FOUNDATION	Bauer, Johannes	MEDIA AND INFORMATION	POLITICAL AND HEALTH INFORMATION SEEKING
COLLEGE OF EDUCATION					

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
181	\$350,000	CHARLES STEWART MOTT FOUNDATION	Beverly, Bryan	CED OUTREACH	CONTINUATION PROPOSAL FOR THE CHARLES STEWART MOTT FOUNDATION YEAR 5 – ADDITIONAL SUPPORT FOR FLINT COMMUNITY SCHOOLS
182	\$500,000	FLINT COMMUNITY SCHOOLS	Beverly, Bryan	CED OUTREACH	FLINT COMMUNITY SCHOOLS/OFFICE OF K-12 OUTREACH FELLOWSHIP OF INSTRUCTIONAL LEADERS 2020-2021
183	\$130,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	CHILDREN'S FETAL ALCOHOL SPECTRUM DISORDER (FASD) EVALUATION
184	\$56,510	MICHIGAN REHABILITATION SERVICES	Egidio, Rhonda	COUNSELING, EDUC PSYCH & SPEC EDUC	DHS/DTMB E-LEARN SYSTEM
185	\$227,040	NATIONAL SCIENCE FOUNDATION	Frank, Kenneth	COUNSELING, EDUC PSYCH & SPEC EDUC	COLLABORATIVE RESEARCH: BCSE: CUTTING-EDGE QUANTITATIVE AND COMPUTATIONAL METHODS FOR STEM EDUCATION RESEARCH
186	\$278,087	MICHIGAN REHABILITATION SERVICES	Leahy, Michael	COUNSELING, EDUC PSYCH & SPEC EDUC	MICHIGAN DEPARTMENT OF REHABILITATION SERVICES PROGRAM EVALUATION PROJECT EXCELLENCE
187	\$22,582	WESTMINSTER COLLEGE	Yadav, Aman	COUNSELING, EDUC PSYCH & SPEC EDUC	INTROCS POGIL: PROCESS ORIENTED GUIDED INQUIRY LEARNING IN INTRODUCTORY COMPUTER SCIENCE
188	\$1,644,366	GEORGE LUCAS EDUCATIONAL FOUNDATION	Krajcik, Joseph	CREATE FOR STEM	UNDERSTANDING ADAPTATIONS IN ML-PBL
189	\$72,817	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
190	\$225,000	VARIOUS SCHOOLS	Paine, Lynn	EDUCATION DEAN	CHINESE TEACHER CERTIFICATION PROGRAM
191	\$407,658	TULANE UNIV	Cowen, Joshua	EDUCATION POLICY CENTER	THE SCHOOL CHOICE POLICY RESEARCH CENTER: IMPROVING POLICY, IMPLEMENTATION, AND OUTCOMES FOR DISADVANTAGED STUDENTS
192	\$31,148	NATIONAL SCIENCE FOUNDATION	Amey, Marilyn	EDUCATIONAL ADMINISTRATION	COLLABORATIVE RESEARCH: AGEF TRANSFORMATION ALLIANCE: CIRTL AGEF - INCLUSIVE EXCELLENCE AND IMPROVED CLIMATE FOR FUTURE FACULTY
193	\$376,922	SPENCER FOUNDATION	Chudgar, Amita	EDUCATIONAL ADMINISTRATION	UNDERSTANDING MARGINALIZED YOUTH'S SECONDARY EDUCATION EXPERIENCES: A MIXED-METHODS STUDY OF COLOMBIA, INDIA, AND MALAWI
194	\$79,958	UNIVERSITY OF WISCONSIN	Gonzales, Leslie	EDUCATIONAL ADMINISTRATION	COLLABORATIVE RESEARCH: NSF INCLUDES ALLIANCE: AN ALLIANCE TO DEVELOP AN INCLUSIVE AND DIVERSE NATIONAL FACULTY FOR BROADENING SUCCESS OF UNDERREPRESENTED 2-YEAR AND 4-YEAR STEM STUDENTS

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
195	\$16,000	NATIONAL SCIENCE FOUNDATION	Ranganathan, Rajiv	KINESIOLOGY - ED	OPTIMIZING MOTOR COORDINATION THROUGH PRINCIPLES OF MOTOR RELEARNING
196	\$187,141	NATIONAL SCIENCE FOUNDATION	Herbel-Eisenmann, Beth	TEACHER EDUCATION	NSF IPA ASSIGNMENT (YEAR 2) FOR DR. BETH HERBEL-EISENMANN
197	\$7,488	AMER EDUCATIONAL RESEARCH ASSOC	Marciano, Joanne	TEACHER EDUCATION	EXAMINING AND ADDRESSING EDUCATIONAL DISPARITIES EXPERIENCED BY MARGINALIZED YOUTH DURING COVID-19 THROUGH CULTURALLY RESPONSIVE-SUSTAINING YPAR
COLLEGE OF ENGINEERING					
198	\$8,994	VARIOUS INDUSTRIES	Bieler, Thomas	CHEMICAL ENGINEERING AND MATERIALS SCI	FEE FOR SERVICE - THOMAS BIELER
199	\$6,479	NATIONAL SCIENCE FOUNDATION	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	INTERNATIONAL SUPPLEMENT TO EXISTING NSF DMR AWARD
200	\$45,804	NATIONAL SCIENCE FOUNDATION	Cetin, Kristen	CHEMICAL ENGINEERING AND MATERIALS SCI	DCL INTERN SUPPLEMENTAL FUNDING FOR NSF PROJECT 1762592
201	\$2,000,000	NATIONAL SCIENCE FOUNDATION	Dorgan, John	CHEMICAL ENGINEERING AND MATERIALS SCI	EFRI E3P: REINCARNATION OF POLYMERS FOR THE CIRCULAR ECONOMY
202	\$500,000	NATIONAL SCIENCE FOUNDATION	Garratt, Elias	CHEMICAL ENGINEERING AND MATERIALS SCI	FMSG: DESIGNING ARTIFICIAL INTELLIGENCE ALGORITHMS FOR IN-SITU PREDICTIVE CRYSTAL SYNTHESIS
203	\$47,872	MICHIGAN TECHNOLOGICAL UNIVERSITY	Jayaraman, K	CHEMICAL ENGINEERING AND MATERIALS SCI	ADDITIVES AND POLYOLEFIN BLENDS FOR AUTOMOTIVE BUMPER FASCIAS
204	\$22,000	IOWA STATE UNIV	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	USE OF CONCRETE GRINDING RESIDUE AS A SOIL AMENDMENT
205	\$55,000	NATIONAL SCIENCE FOUNDATION	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	BRIDGING THE GAP BETWEEN ACADEMIA AND INDUSTRY IN APPROACHES FOR SOLVING COMPLEX, ILL-STRUCTURED PROBLEMS - SUPPLEMENTAL FUNDING
206	\$15,000	IOWA STATE UNIV	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	PROJECT NO. 1: HEATED AIRPORT PAVEMENTS
207	\$40,000	SLIPSTREAM GROUP INC	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	TECHNOLOGY ANALYSIS AND VALIDATION OF INTEGRATING CONNECTED LIGHTING, AUTOMATED SHADES, AND INTELLIGENT ENERGY STORAGE TO PROVIDE GRID-INTERACTIVE FL

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
208	\$200,000	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	Galehouse, Larry	CIVIL AND ENVIRONMENTAL ENGINEERING	IMPLEMENTING GUIDE SPECIFICATIONS FOR THE CONSTRUCTION OF CHIP SEALS AND MICRO SURFACING
209	\$166,346	MICHIGAN FITNESS FOUNDATION	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	TECHNICAL SUPPORT FOR MICHIGAN SAFE ROUTES TO SCHOOL, FY19-FY24
210	\$54,016	EATON CORP	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	LARGE FORMAT POLYMER AM - INTEGRATION ON PROCESSING MONITORING DATA IN MULTISCALE MODELING
211	\$20,000	VARIOUS INDUSTRIES	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	FEE FOR SERVICE - CVRC - MAHMOODUL HAQ
212	\$74,580	UNIVERSITY OF NEBRASKA OMAHA	Kodur, Venkatesh	CIVIL AND ENVIRONMENTAL ENGINEERING	FIRE-RESISTANCE GUIDELINES FOR HYBRID FRP STRUCTURAL COMPONENTS MADE OF CELLULOSIC FIBERS DERIVED FROM AGRICULTURAL WASTE
213	\$110,206	VARIOUS INDUSTRIES	Kutay, Muhammed	CIVIL AND ENVIRONMENTAL ENGINEERING	FEE FOR SERVICE - KUTAY
214	\$84,857	US GEOLOGICAL SURVEY	Mantha, Phanikumar	CIVIL AND ENVIRONMENTAL ENGINEERING	LINKING ENVIRONMENTAL METAGENOMICS, EDNA MONITORING AND HYDRODYNAMIC FATE AND TRANSPORT MODELING FOR THE GREAT LAKES
215	\$83,736	US GEOLOGICAL SURVEY	Mantha, Phanikumar	CIVIL AND ENVIRONMENTAL ENGINEERING	CLADOPHORA IN THE GREAT LAKES: FIELD OBSERVATIONS AND MODELING
216	\$19,000	JET PROPULSION LABORATORY	Mantha, Phanikumar	CIVIL AND ENVIRONMENTAL ENGINEERING	DEVELOPMENT, TESTING AND IMPLEMENTATION OF LOW COST AND EFFECTIVE IN SITU SOIL MOISTURE SENSOR FOR CITIZEN SCIENCE
217	\$88,000	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Savolainen, Peter	CIVIL AND ENVIRONMENTAL ENGINEERING	NEXT GENERATION OF THE USLIMITS2 SPEED LIMIT SETTING EXPERT SYSTEM
218	\$22,222	NORWEGIAN UNIVERSITY OF LIFE SCIENCES	Tarabara, Volodymyr	CIVIL AND ENVIRONMENTAL ENGINEERING	MEMBRANE PROCESSES FOR THE NEXT DECADES CHALLENGES IN THE WATER SECTOR (MEMPREX-II)
219	\$800,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Xagorarakis, Irene	CIVIL AND ENVIRONMENTAL ENGINEERING	SARS-COV-2 IN WASTEWATER FOR PREDICTION OF COVID-19 TEMPORAL AND SPATIAL FLUCTUATIONS IN DETROIT CITY AND WAYNE, MACOMB AND OAKLAND
220	\$180,205	MICHIGAN DEPT OF TRANSPORTATION	Zockaie, Ali	CIVIL AND ENVIRONMENTAL ENGINEERING	ASSESSING SYSTEM PERFORMANCE OF THE MICHIGAN TRUNKLINE: MEASURES AND ANALYTICAL PROCEDURES FOR PLANNING AND OPERATIONS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
221	\$104,964	VARIOUS INDUSTRIES	Drzal, Lawrence	COMPOSITE MATERIALS AND STRUCTURES CTR	EGR CMSC FEE FOR SERVICE
222	\$114,072	NATIONAL SCIENCE FOUNDATION	Aktulga, H. Metin	COMPUTER SCIENCE AND ENGINEERING	CAREER: SCALABLE SPARSE LINEAR ALGEBRA FOR EXTREME-SCALE DATA ANALYTICS AND SCIENTIFIC COMPUTING
223	\$95,000	NATIONAL INST OF STANDARDS & TECHNOLOGY	Jain, Anil	COMPUTER SCIENCE AND ENGINEERING	TOWARDS SYNTHESIZING ONE BILLION FINGERPRINTS
224	\$556,000	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	INTELLIGENT DIAGNOSIS FOR MACHINE AND HUMAN-CENTRIC ADVERSARIES
225	\$200,000	NATIONAL SCIENCE FOUNDATION	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	COLLABORATIVE RESEARCH: CONVERGING GENOMICS, PHENOMICS, AND ENVIRONMENTS USING INTERPRETABLE MACHINE LEARNING MODELS
226	\$152,424	NATIONAL SCIENCE FOUNDATION	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PHASE II IUCRC MICHIGAN STATE UNIVERSITY: CENTER FOR IDENTIFICATION TECHNOLOGY RESEARCH (CITER)
227	\$141,505	GEORGE MASON UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	IDENTITY SCIENCES INTERDISCIPLINARY RESEARCH
228	\$333,502	NATIONAL SCIENCE FOUNDATION	Tan, Pang-Ning	COMPUTER SCIENCE AND ENGINEERING	III: SMALL: PREDICTION AND CHARACTERIZATION OF EXTREME EVENTS IN SPATIO-TEMPORAL DATA.
229	\$100,000	NATIONAL SCIENCE FOUNDATION	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	COLLABORATIVE RESEARCH: III:MEDIUM: NEW FRONTIERS OF GRAPH NEURAL NETWORKS: SCALABILITY, INTERPRETABILITY, VULNERABILITY AND STABILITY.
230	\$450,000	NATIONAL SCIENCE FOUNDATION	Xiao, Li	COMPUTER SCIENCE AND ENGINEERING	SHF: SMALL: AN INTEGRATED HARDWARE-SOFTWARE ARCHITECTURE FOR EFFICIENT, LOW-POWER, SPATIALLY COLLABORATIVE COMPUTING IN AUGMENTED REALITY
231	\$113,380	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
232	\$200,600	APPLIED RESEARCH ASSOCIATES INC	Balasubramaniam, Shanker	ELECTRICAL AND COMPUTER ENGINEERING	RF ANALYSIS AND VALIDATION ENGINEERING SOFTWARE (RAVENS)
233	\$10,600	KBR	Balasubramaniam, Shanker	ELECTRICAL AND COMPUTER ENGINEERING	R&D SUPPORT FOR INTEGRATED PHOTONICS AND PLASMONICS
234	\$75,378	GREAT LAKES CRYSTAL TECHNOLOGIES INC	Baryshev, Sergey	ELECTRICAL AND COMPUTER ENGINEERING	DIAMOND BASED SEMICONDUCTOR PULSE SHAPER

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
235	\$360,000	NATIONAL SCIENCE FOUNDATION	Bopardikar, Shaunak	ELECTRICAL AND COMPUTER ENGINEERING	SCALABLE RANDOMIZED SCHEDULING OF MOBILE SENSORS WITH OBSERVABILITY GUARANTEES
236	\$250,000	US DEPT OF TRANSPORTATION	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	AI-ENABLED ILI ROBOT WITH INTEGRATED STRUCTURED LIGHT NDE FOR DISTRIBUTION PIPELINES
237	\$250,000	US DEPT OF TRANSPORTATION	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	HOLISTIC ELECTROMAGNETIC AND ULTRASONIC NDE TECHNIQUES FOR PLASTIC PIPELINE AGING AND DEGRADATION CHARACTERIZATION
238	\$48,754	NATIONAL SCIENCE FOUNDATION	Fan, Qi	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPING AN EFFICIENT COMPUTATION SCHEME FOR MODELING LOW-PRESSURE PLASMAS
239	\$470,000	NATIONAL SCIENCE FOUNDATION	Li, Tongtong	ELECTRICAL AND COMPUTER ENGINEERING	CCSS: BRAIN NETWORK ANALYSIS USING COMMUNICATION THEORY
240	\$390,000	NATIONAL SCIENCE FOUNDATION	Li, Wen	ELECTRICAL AND COMPUTER ENGINEERING	COLLABORATIVE RESEARCH: NCS-FO: INTELLIGENT CLOSED-LOOP NEURAL INTERFACE SYSTEM FOR STUDYING MECHANISMS OF SOMATOSENSORY FEEDBACK IN CONTROL OF FUNCTIONAL AND STABLE LOCOMOTION
241	\$191,026	ANTRUST	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	DISTRIBUTED SYNTHETIC APERTURE RADAR
242	\$224,952	NATIONAL SCIENCE FOUNDATION	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	EAGER: SARE: DYNAMIC PHASE CENTER ANTENNAS FOR SECURE SENSING AND COMMUNICATIONS
243	\$300,000	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	KNOWLEDGE-ENHANCED MICROWAVE BEAMFORMING FOR THERMAL ABLATION OF TUMORS
244	\$25,000	HONEYWELL CORP	Papapolymerou, Ioannis	ELECTRICAL AND COMPUTER ENGINEERING	MSU RADAR CONSORTIUM
245	\$36,000	SAE INTERNATIONAL	Radha, Hayder	ELECTRICAL AND COMPUTER ENGINEERING	GM/SAE AUTODRIVE CHALLENGE - RESEARCH
246	\$151,110	US DEPT OF EDUCATION	Sepulveda Alancastro, Nelson	ELECTRICAL AND COMPUTER ENGINEERING	ENABLING TALENTED STUDENTS TO SUCCESSFUL CAREERS IN AREAS OF NATIONAL NEED - SUPPLEMENT REQUEST
247	\$47,652	TOYOTA MOTOR CORP	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	PVC GEL ACTUATORS
248	\$76,000	RAYTHEON CO	Yoo, Sangmin	ELECTRICAL AND COMPUTER ENGINEERING	ULTRA-WIDEBAND PHASED ARRAY TRANSCEIVER IN SOI CMOS
249	\$154,259	UNIVERSITY OF MICHIGAN	Caldwell, Theodore	ENGINEERING DEAN	MICHIGAN LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
250	\$100,000	AMER HEART ASSOC	Aguirre, Aitor	INSTITUTE FOR QUANTITATIVE HEALTH	AN ARTIFICIAL BIOLOGICAL PUMP FOR FAILING FONTAN CIRCULATION
251	\$169,692	GLADIATOR BIOSCIENCES	Contag, Christopher	INSTITUTE FOR QUANTITATIVE HEALTH	MATERIALS TRANSFER AGREEMENT
252	\$248,998	NATIONAL INST OF HEALTH	Johnson, Brian	INSTITUTE FOR QUANTITATIVE HEALTH	ELUCIDATING AHR SIGNALING INTERPLAY IN OROFACIAL CLEFTING AND ENDOCRINE DISRUPTION USING MICROPLATE MICROFLUIDICS
253	\$36,602	NATIONAL INST OF HEALTH	Riggins, Tiair	INSTITUTE FOR QUANTITATIVE HEALTH	NEUROTECHNOLOGY DESIGN FEATURES' IMPACT ON THE IDENTITY AND FUNCTION OF REACTIVE ASTROCYTES
254	\$514,198	NATIONAL INST OF HEALTH	Smith, Bryan	INSTITUTE FOR QUANTITATIVE HEALTH	MACROPHAGE-SPECIFIC NANOTHERAPY FOR BREAST CANCER
255	\$199,819	NATIONAL SCIENCE FOUNDATION	Averill, Ronald	MECHANICAL ENGINEERING	COLLABORATIVE RESEARCH: SUPPORTED MASTERY ASSESSMENT USING REPEATED TESTING (SMART) TO IMPROVE PROBLEM SOLVING SKILLS AND CONCEPTUAL FLUENCY IN STEM EDUCATION
256	\$57,500	MICHIGAN TECHNOLOGICAL UNIVERSITY	Chung, Haseung	MECHANICAL ENGINEERING	AUTOMATED MOLD FINISHING PROCESS VIA MAGNETIC-FIELD ASSISTED FINISHING (MAF) AND ENHANCEMENT WITH EXFOLIATED GRAPHITE NANOPATELETS (XGNP)
257	\$9,681	VARIOUS INDUSTRIES	Chung, Haseung	MECHANICAL ENGINEERING	FEE FOR SERVICE - HASEUNG CHUNG
258	\$75,000	SOLAR TURBINES	Engeda, Abraham	MECHANICAL ENGINEERING	PHASE IV: INVESTIGATION INTO THE STEADY AND TRANSIENT FLUID-DYNAMICS AND ROTOR- DYNAMICS CHARACTERISTICS OF LABYRINTH SEALS WITH SOLAR TURBINES
259	\$276,162	NATIONAL SCIENCE FOUNDATION	Guo, Yang	MECHANICAL ENGINEERING	COLLABORATIVE RESEARCH: GOALI: MECHANICS AND DYNAMICS OF LOW FREQUENCY VIBRATION ASSISTED MACHINING
260	\$121,766	OREGON STATE UNIV	Klausner, James	MECHANICAL ENGINEERING	A NOVEL ZERO LIQUID DISCHARGE WATER DESALINATION PROCESS USING HUMIDIFICATION-DEHUMIDIFICATION IN A THERMALLY-ACTUATED FLUIDIZED
261	\$29,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Koochesfahani, Manoochehr	MECHANICAL ENGINEERING	ZBOT-2 THERMOMETRY DIAGNOSTICS DEVELOPMENT
262	\$48,875	MICHIGAN TECHNOLOGICAL UNIVERSITY	Kwon, Patrick	MECHANICAL ENGINEERING	A NEW GRADE OF CUBIC BORON NITRIDE (CBN) INSERTS FOR CUTTING COMPACTED GRAPHITE IRONS
263	\$281,409	NATIONAL SCIENCE FOUNDATION	Li, Zhaojian	MECHANICAL ENGINEERING	COLLABORATIVE RESEARCH: ROAD INFORMATION DISCOVERY THROUGH PRIVACY-PRESERVED COLLABORATIVE ESTIMATION IN CONNECTED VEHICLES

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
264	\$62,180	US DEPT OF AGRICULTURE	Li, Zhaojian	MECHANICAL ENGINEERING	DEVELOPMENT OF A CONTROL AND PLANNING SYSTEM FOR AN APPLE ROBOTIC HARVESTER
265	\$1,499,255	NATIONAL SCIENCE FOUNDATION	Li, Zhaojian	MECHANICAL ENGINEERING	NRI:INT:SMART: SOFT MULTI-ARM ROBOT FOR SYNERGISTIC COLLABORATIONS WITH HUMANS
266	\$59,000	AIR FORCE RESEARCH LABORATORY	Mejia-Alvarez, Ricardo	MECHANICAL ENGINEERING	UNDERSTANDING TRAUMATIC BRAIN INJURY MECHANISMS USING PROTON RADIOGRAPHY AND FLUID STRUCTURE INTERACTION
267	\$109,000	AIR FORCE RESEARCH LABORATORY	Mejia-Alvarez, Ricardo	MECHANICAL ENGINEERING	LOCALIZATION OF NON-COMPRESSIBLE TORSO HEMORRHAGE USING ENDOVASCULAR ULTRASOUND
268	\$85,000	OFFICE OF NAVAL RESEARCH	Mukherjee, Ranjan	MECHANICAL ENGINEERING	PERFORMANCE OPTIMIZATION OF AN UNDERWATER VEHICLE PROPELLED BY A FLUTTERING TAIL
269	\$58,003	VARIOUS INDUSTRIES	Schock, Harold	MECHANICAL ENGINEERING	FEE FOR SERVICE - HAROLD SCHOCK
270	\$35,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Wichman, Indrek	MECHANICAL ENGINEERING	DEVELOPING THE NARROW CHANNEL APPARATUS AS A NASA STANDARD MATERIAL FLAMMABILITY TEST
271	\$100,000	BROWN UNIV	Zayernouri, Mohsen	MECHANICAL ENGINEERING	FRACTIONAL PDES FOR CONSERVATION LAWS AND BEYOND: THEORY, NUMERICS AND APPLICATIONS - EXTENSION FUNDING SUBTITLE: MULTI-SCALE APPROACH TO STOCHASTIC PHASE-FIELD MODELING OF FAILURE IN BRITTLE MATERIAL
COLLEGE OF HUMAN MEDICINE					
272	\$17,050	EMD SERONO INC	Hrinczenko, Borys	CANCER CENTER	EMR 100070-001: A PHASE I, OPEN-LABEL, MULTIPLE-ASCENDING DOSE TRIAL TO INVESTIGATE THE SAFETY, TOLERABILITY, PHARMACOKINETICS, BIOLOGICAL AND CLINICAL ACTIVITY OF MSB0010718C IN SUBJECTS WITH METASTA
273	\$500,000	MICHIGAN HEALTH ENDOWMENT FUND	Custack, Amy	CHM FLINT	IMPACT OF PEDIATRIC PRESCRIPTIONS FOR FRUITS AND VEGETABLES
274	\$614,898	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Custack, Amy	CHM FLINT	INNOVATIVE NUTRITION PRACTICES IN PEDIATRIC HEALTH CARE: ASSESSMENT OF A FRUIT AND VEGETABLE PRESCRIPTION PROGRAM FOR CHILDREN IN NEED
275	\$121,942	UNIVERSITY OF MICHIGAN	Furr-Holden, Debra	CHM FLINT	PREVENTION RESEARCH CENTER OF MICHIGAN
276	\$65,000	CHARLES STEWART MOTT FOUNDATION	Hanna-Attisha, Mona	CHM FLINT	MICHIGAN LEAD SERVICE LINE REPLACEMENT POLICY COST-BENEFIT ANALYSIS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
277	\$27,562	BROWN UNIV	Johnson, Jennifer	CHM FLINT	INTEGRATED TREATMENT ADHERENCE PROGRAM FOR BIPOLAR DISORDER AT THE TIME OF PRISON RELEASE
278	\$19,135	BUTLER HOSPITAL	Johnson, Jennifer	CHM FLINT	MOBILE AFTER-CARE SUPPORT INTERVENTION FOR PATIENTS WITH SCHIZOPHRENIA FOLLOWING HOSPITALIZATION
279	\$245,593	GEORGE MASON UNIV	Johnson, Jennifer	CHM FLINT	EVALUATION OF STEPPING UP EFFORTS TO IMPROVE MH SERVICES AND JUSTICE UTILIZATION
280	\$698,010	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Johnson, Jennifer	CHM FLINT	IPT FOR MAJOR DEPRESSION FOLLOWING PERINATAL LOSS
281	\$800,966	NATIONAL INST OF HEALTH	Johnson, Jennifer	CHM FLINT	MEETING WOMEN WHERE THEY ARE: MULTILEVEL INTERVENTION ADDRESSING RACIAL DISPARITIES IN MATERNAL MORBIDITY AND MORTALITY
282	\$1,326,405	NATIONAL INST OF HEALTH	Lucas, Todd	CHM FLINT	CULTURALLY-TARGETED COMMUNICATION TO PROMOTE SARS-COV-2 ANTIBODY TESTING IN SALIVA: ENABLING EVALUATION OF INFLAMMATORY PATHWAYS IN COVID-19 RACIAL DISPARITIES
283	\$132,671	COMMUNITY FOUNDATION OF GREATER FLINT	O'Connell, Lauren	CHM FLINT	VIDEO INTERACTION PROJECT (VIP) - FLINT
284	\$82,535	HENRY FORD HEALTH SYSTEM	Ondersma, Steven	CHM FLINT	SBI-TECH MICHIGAN: OPTIMIZING SBI IMPLEMENTATION FOR ALCOHOL USE AMONG WOMEN OF CHILDBEARING AGE
285	\$33,216	UNIVERSITY OF MICHIGAN	Bohnert, Kipling	EPIDEMIOLOGY AND BIOSTATISTICS	FACILITATING USE OF THE NATIONAL SUICIDE PREVENTION LIFELINE IN ALCOHOL PATIENTS
286	\$99,953	MIRVIE INC	Holzman, Claudia	EPIDEMIOLOGY AND BIOSTATISTICS	MIRVIE COLLABORATION
287	\$112,059	NATIONAL INST OF HEALTH	Kerver, Jean	EPIDEMIOLOGY AND BIOSTATISTICS	UNDERSTANDING BREASTFEEDING PRACTICES AMONG ECHO COHORT PARTICIPANTS BEFORE AND DURING/AFTER THE COVID-19 PANDEMIC
288	\$245,534	NATIONAL INST OF HEALTH	Kerver, Jean	EPIDEMIOLOGY AND BIOSTATISTICS	MITIGATING THE IMPACT OF IMPLICIT BIAS ON MATERNAL MORBIDITY AND MORTALITY FOR AFRICAN AMERICAN WOMEN
289	\$125,008	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Lenski, Madeleine	EPIDEMIOLOGY AND BIOSTATISTICS	ENVIRONMENT, EPIGENETICS, NEURODEVELOPMENT & HEALTH IN EXTREMELY PRETERM CHILDREN
290	\$225,035	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	ADMINISTRATIVE SUPPLEMENT TO POLICY CHANGE AND WOMEN'S HEALTH

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
291	\$38,372	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	THE IMPACT OF THE AFFORDABLE CARE ACT (ACA) ON UNINTENDED PREGNANCY: COMBINING EPIDEMIOLOGICAL AND ECONOMETRIC METHODS.
292	\$882,748	NATIONAL INST OF HEALTH	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	FATHERS MATTER: FATHERS CONTRIBUTIONS TO BIRTH OUTCOMES IN BLACK FAMILIES
293	\$319,239	MICHIGAN PUBLIC HEALTH INST	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	DATA-DRIVEN PUBLIC HEALTH STRATEGIES AND POLICIES TO MITIGATE COVID-19 DISPARITIES
294	\$2,901,575	NATIONAL INST OF HEALTH	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES: A STATEWIDE STUDY
295	\$25,000	WAYNE STATE UNIV	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	ECHO INITIATIVE YEAR 3 WSU FUNDS
296	\$25,000	UNIVERSITY OF MICHIGAN	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	ECHO INITIATIVE YEAR 4
297	\$92,706	UNIVERSITY OF TEXAS AT AUSTIN	Vazquez, Ana	EPIDEMIOLOGY AND BIOSTATISTICS	USING METABOLOMICS TO DEFINE THE BEHAVIORAL PHENOMICS OF ENERGY BALANCE AND EXERCISE RESPONSE
298	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	de los Campos, Gustavo	EPIDEMIOLOGY AND BIOSTATISTICS	OPTIMIZING THE USE OF HIGH-THROUGHPUT PHENOTYPING IN GENETIC EVALUATIONS USING PENALIZED SELECTION INDICES
299	\$247,016	NATIONAL INST OF HEALTH	Alshaarawy, Omayma	FAMILY MEDICINE, DEPARTMENT OF	USING PRE-CLINICAL BIOMARKERS AND EPIDEMIOLOGICAL MODELS TO ASSESS THE EFFECTS OF CANNABINOIDS ON DISEASE
300	\$35,420	UNIVERSITY OF MICHIGAN	Ilardo, Joan	HUMAN MEDICINE DEAN	MICHIGAN CENTER FOR URBAN AFRICAN AMERICAN AGING RESEARCH
301	\$67,696	UNIVERSITY OF MICHIGAN	Ilardo, Joan	HUMAN MEDICINE DEAN	MICHIGAN CENTER FOR URBAN AFRICAN AMERICAN AGING RESEARCH
302	\$499,645	MICHIGAN HEALTH ENDOWMENT FUND	Ilardo, Joan	HUMAN MEDICINE DEAN	SUCCESSFUL NUTRITION PROGRAMS ACROSS THE LIFESPAN: AN IMPLEMENTATION ROADMAP FOR COMMUNITIES (SNPAL)
303	\$150,000	HEALTH RESOURCES & SERVICES ADMINISTRATION	Lipscomb, Wanda	HUMAN MEDICINE DEAN	CENTERS OF EXCELLENCE COVID
304	\$10,575	RUTGERS UNIV	Arora, Ripla	INSTITUTE FOR QUANTITATIVE HEALTH	INNATE IMMUNE MECHANISMS AT THE MATERNAL-FETAL INTERFACE IN NORMAL AND SUPEROVULATORY PREGNANCY
305	\$150,000	MARCH OF DIMES FOUNDATION	Arora, Ripla	INSTITUTE FOR QUANTITATIVE HEALTH	EFFECTS OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS ON UTERINE 3D STRUCTURE AND PREGNANCY OUTCOMES

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
306	\$75,000	FORD MOTOR CO	Etchebarne, Brett	INSTITUTE FOR QUANTITATIVE HEALTH	HIGH-THROUGHPUT COVID-19 TESTING AT FORD FACILITIES
307	\$64,926	NATIONAL INST OF HEALTH	Heyza, Joshua	INSTITUTE FOR QUANTITATIVE HEALTH	DEFINING THE MECHANISM OF SHIELDIN COMPLEX IN DNA END JOINING
308	\$18,386	COLUMBIA UNIV	Moore, Anna	INSTITUTE FOR QUANTITATIVE HEALTH	T CELLS TO PROMOTE MIXED CHIMERISM FOR TOLERANCE TO ISLETS AND KIDNEYS FROM DECEASED AND LIVING DONORS
309	\$2,137,302	NATIONAL INST OF HEALTH	Schmidt, Jens	INSTITUTE FOR QUANTITATIVE HEALTH	SINGLE-MOLECULE ANALYSIS OF THE DNA DAMAGE RESPONSE IN LIVING CELLS
310	\$149,052	PROTEOGENOMICS RESEARCH INST FOR SYSTEMS	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	PRECISION DELIVERY AND IMAGING TO ENHANCE SOLID TUMOR THERAPY
311	\$40,000	DEPT OF LABOR & ECONOMIC OPPORTUNITY	Oliveri, Anthony	MEDICINE	COVID-19 PREPAREDNESS FOR AGRICULTURAL OPERATIONS IN MICHIGAN
312	\$787,388	NATIONAL INST OF HEALTH	Olomu, Adesuwa	MEDICINE	IMPROVING DIABETIC PATIENTS' ADHERENCE TO TREATMENT AND PREVENTION OF CARDIOVASCULAR DISEASE
313	\$29,457	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Rosenman, Kenneth	MEDICINE	COVID-19 MORTALITY REVIEW
314	\$58,915	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Rosenman, Kenneth	MEDICINE	COVID-19 MORTALITY REVIEW
315	\$235,963	NATIONAL INST OF MENTAL HEALTH	Debena, Maji	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	PEER NAVIGATION FOR INDIVIDUALS WITH SERIOUS MENTAL ILLNESS LEAVING JAIL
316	\$96,236	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DEVELOPMENT OF RNAI BASED SFLT1-TARGETING THERAPEUTICS FOR TREATMENT OF PREECLAMPSIA
317	\$557,047	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	MOLECULAR MECHANISMS OF ENDOMETRIAL PROGESTERONE RESISTANCE
318	\$92,432	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Luke, Barbara	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	IN VITRO FERTILIZATION OUTCOMES AFTER CANCER
319	\$36,038	NATIONAL INST OF HEALTH	Marquardt, Ryan	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE ROLE OF ARID1A IN ENDOMETRIOSIS-RELATED INFERTILITY

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
320	\$210,787	NATIONAL INST OF HEALTH	Meghea, Cristian	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	A SMARTPHONE INTERVENTION FOR PREGNANCY SMOKING CESSATION WITH PEER SUPPORT
321	\$42,406	SPECTRUM HEALTH SYSTEM	Meghea, Cristian	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	AIM COMMUNITY CARE INITIATIVE
322	\$25,034	BOSTON CHILDRENS HOSPITAL	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DEFINING THE ROLE FOR DESCENDING PAIN MODULATION AND REWARD-AVERSION PROCESSES TOWARDS THE DEVELOPMENT OF CHRONIC PAIN IN ENDOMETRIOSIS
323	\$37,389	UNIVERSITY OF ARIZONA	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ENDOMETRIOSIS, INFERTILITY, AND RISK OF STROKE
324	\$872,144	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Poland, Cara	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SERVICE ENHANCEMENT FOR OPIOID USE DISORDERS
325	\$1,269,116	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Roman, Leeanne	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	STRONG BEGINNINGS INITIATIVE
326	\$97,404	SPECTRUM HEALTH SYSTEM	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	HEALTHY START INITIATIVE: ELIMINATING DISPARITIES IN PERINATAL HEALTH
327	\$39,960	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Alavi, Zakia	PEDIATRICS AND HUMAN DEVELOPMENT	MICHIGAN CHILD COLLABORATIVE CARE-CONNECT (MC3-CONNECT)
328	\$34,788	UNIVERSITY OF TEXAS AT AUSTIN	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	RAPID: DASHBOARD FOR COVID-19 SCIENTIFIC DEVELOPMENT
329	\$13,750	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	English, Boyce	PEDIATRICS AND HUMAN DEVELOPMENT	GENETIC SERVICES
330	\$27,500	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	English, Boyce	PEDIATRICS AND HUMAN DEVELOPMENT	PEDIATRIC GENETICS – FEE FOR SERVICE
331	\$100,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Karna, Padmani	PEDIATRICS AND HUMAN DEVELOPMENT	VERMONT OXFORD NETWORK MI QUALITY INITIATIVE
332	\$50,000	AMER THROMBOSIS & HEMOSTASIS NETWORK	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	ATHN CARE AWARD: A CROSS- SECTIONAL STUDY OF THE AMERICAN THROMBOSIS AND HEMOPHILIA NETWORK COHORT FOR HEMOPHILIAC'S AND DENTAL EXTRACTION OUTCOMES
333	\$25,816	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Sigal, Yakov	PEDIATRICS AND HUMAN DEVELOPMENT	PEDIATRIC EPILEPSY ACCESS PROJECT

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
334	\$85,140	WAYNE STATE UNIV	Turner, Jane	PEDIATRICS AND HUMAN DEVELOPMENT	LEADERSHIP EDUCATION IN NEURODEVELOPMENTAL AND RELATED DISORDERS TRAINING PROGRAM
335	\$240,687	NATIONAL INST OF HEALTH	Upham, Brad	PEDIATRICS AND HUMAN DEVELOPMENT	HIGH-THROUGHPUT TOXICITY SCREENING OF ENVIRONMENTAL CONTAMINANTS AND DRUG CANDIDATES USING A NOVEL GAP JUNCTION INTERCELLULAR COMMUNICATION BIOASSAY IN LUNG AND LIVER CELLS
336	\$293,260	MASSACHUSETTS GENERAL HOSPITAL	Moore, Anna	RADIOLOGY HUMAN MEDICINE	THERAPY FOR METASTATIC BREAST CANCER BASED ON MICRO RNA SILENCING
337	\$95,098	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Zhu, David	RADIOLOGY HUMAN MEDICINE	EXERCISE AND INTENSIVE VASCULAR RISK REDUCTION IN PREVENTING DEMENTIA
338	\$131,634	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Zhu, David	RADIOLOGY HUMAN MEDICINE	HYPERTENSION, INTRACRANIAL PULSATILITY AND BRAIN A ACCUMULATION IN OLDER ADULTS
339	\$71,969	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Zhu, David	RADIOLOGY HUMAN MEDICINE	DIVERSITY SUPPLEMENT TO "HYPERTENSION, INTRACRANIAL PULSATILITY AND BRAIN A-BETA ACCUMULATION IN OLDER ADULTS"
340	\$213,622	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brooks, Kevin	THE INSTITUTE FOR HEALTH POLICY	FY20 TRANSLATING EVIDENCE INTO DEMONSTRATIONS
341	\$165,769	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brooks, Kevin	THE INSTITUTE FOR HEALTH POLICY	FY20 INTEGRATED CARE ASSESSMENT
342	\$124,445	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brooks, Kevin	THE INSTITUTE FOR HEALTH POLICY	OPIOID ANALYTICS
343	\$405,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Ford, Sabrina	THE INSTITUTE FOR HEALTH POLICY	MICHIGAN MEDICAID HEALTH INFORMATION TECHNOLOGY (HIT) RESOURCE CENTER
344	\$60,000	MICHIGAN COUNCIL FOR MATERNAL & CHILD HEALTH	Ford, Sabrina	THE INSTITUTE FOR HEALTH POLICY	MCMCH-MSU IHP

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
345	\$1,030,760	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FY21 HCBS HEIGHTENED SCRUTINY PROJECT
346	\$414,253	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FY21 FLINT WATER EVALUATION
347	\$20,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	LOCAL HEALTH DEPARTMENT REGIONAL EDUCATION SEMINARS
348	\$604,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	QUALITY IMPROVEMENT WORK PLAN
349	\$113,598	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	HEALTHY BEHAVIORS AS PART OF HEALTHY MICHIGAN PLAN
350	\$590,058	NATIONAL INST OF HEALTH	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	GENETIC SILENCING OF STRIATAL CAV1.3 CALCIUM CHANNELS AS A POTENT ANTIDYSKINETIC THERAPY FOR PD
351	\$56,828	UNIVERSITY OF ARIZONA	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	MECHANISMS OF LOW-DOSE KETAMINE TREATMENT FOR PARKINSON'S DISEASE
352	\$150,000	ALZHEIMERS ASSOC	Combs, Benjamin	TRANSLATIONAL NEUROSCIENCE	TAU PROTEIN AND MISREGULATION OF FAST AXONAL TRANSPORT DIRECTIONALITY
353	\$39,618	UNIVERSITY OF MICHIGAN	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	MICHIGAN ALZHEIMER'S DISEASE CORE CENTER
354	\$641,097	DIGNITY HEALTH	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	NEUROFIBRILLARY TANGLE EVOLUTION IN MILD COGNITIVE IMPAIRMENT
355	\$285,000	BRIGHT FOCUS FOUNDATION	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	NORADRENERGIC REGULATION OF AMYLOID CLEARANCE IN AD
356	\$193,750	NATIONAL INST OF HEALTH	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	DEVELOPMENT OF NOVEL TAU-SIMOA ASSAYS
357	\$294,489	MICHAEL J FOX FOUNDATION	Patterson, Joseph	TRANSLATIONAL NEUROSCIENCE	ASSESSMENT OF THE NEUROPROTECTIVE POTENTIAL OF TERAZOSIN VIA PGK1-ENHANCED GLYCOLYSIS AND MITOCHONDRIAL FUNCTION
358	\$11,859	UNIVERSITY OF KENTUCKY	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	GENE THERAPY APPROACH TO REDUCE ALPHA-SYNUCLEIN AGGREGATION IN AN ANIMAL MODEL OF PD
359	\$119,796	UNIVERSITY OF MICHIGAN	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	MICHIGAN CENTER FOR CONTEXTUAL FACTORS IN ALZHEIMER'S DISEASE

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
360	\$195,441	NATIONAL INST OF HEALTH	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	BRAIN MICROBIAL PROTEOME IN NORMAL AGING AND ALZHEIMER'S DISEASE
361	\$19,287	UNIVERSITY OF MISSOURI	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	CHARACTERIZATION OF EFHD2 AS A NOVEL INHIBITOR OF NECROPTOSIS AND AGING-RELATED CARDIOVASCULAR PATHOLOGY
JAMES MADISON COLLEGE					
362	\$1,000,000	HENRY LUCE FOUNDATION	Flaim, Amanda	JAMES MADISON COLLEGE DEAN	MEKONG CULTURE WELL: ADVANCING CULTURAL AND INTERDISCIPLINARY STUDIES OF WATER, ECOLOGIES, LAND, AND LIVELIHOODS JUSTICE ALONG THE MEKONG
LYMAN BRIGGS COLLEGE					
363	\$599,930	NATIONAL SCIENCE FOUNDATION	Pennock, Robert	LYMAN BRIGGS DEAN	INSTITUTIONAL TRANSFORMATION: VERITIES - VIRTUE-BASED EDUCATION FOR RESPONSIBILITY AND INTEGRITY TO INCREASE EXCELLENCE IN STEM
COLLEGE OF MUSIC					
364	\$112,000	MAX M & MARJORIE S FISHER FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	KEY OF D KIDS (KDK)
365	\$30,000	ERB FAMILY FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	DETROIT ARTS SUPPORT FOR OPERATING COSTS
366	\$33,500	WORTHINGTON FAMILY FOUNDATION	Helton, Melanie	MUSIC	CONTINUING THE MSU OPERA THEATRE EXPERIENCE: LOOKING TO THE FUTURE
367	\$12,474	AGRIGENTO	Hess, Juliet	MUSIC	NAMING THE WORLD: CONSTRUCTING AN ACTIVIST MUSIC EDUCATION
COLLEGE OF NATURAL SCIENCE					
368	\$509,585	NATIONAL SCIENCE FOUNDATION	Della Penna, Dean	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	RESEARCH-PGR: A GENOME-LEVEL APPROACH TO BALANCING THE VITAMIN CONTENT OF MAIZE GRAIN
369	\$197,366	UNIVERSITY OF NORTH TEXAS	Grotewold, Erich	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	FUNCTIONAL ANALYSIS OF CANDIDATE GENES INVOLVED IN OIL STORAGE AND STABILITY IN PENNYCRESS
370	\$136,000	US DEPT OF ENERGY	Hegg, Eric	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	DNRA: CATALYZING MULTI-ELECTRON REDUCTIONS USING A PENTAHEME SCAFFOLD
371	\$327,509	NATIONAL INST OF FOOD & AGRICULTURE	Jones III, Arthur	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	LIQUID CHROMATOGRAPH-TANDEM MASS SPECTROMETER FOR TARGETED METABOLITE PROFILING

Gift, Grant and Contract Report

Board of Trustees

December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
372	\$10,852	UNIVERSITY OF CALIFORNIA RIVERSIDE	Kaguni, Laurie	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	CHEMICAL AND MOLECULAR MECHANISMS OF MITOCHONDRIAL DNA DEGRADATION
373	\$292,056	NATIONAL SCIENCE FOUNDATION	Kroos, Lee	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MECHANISMS DRIVING EMERGENT BEHAVIORS DURING MYXOCOCCUS XANTHUS DEVELOPMENT
374	\$52,734	NATIONAL INST OF HEALTH	Ralston, Amy	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MOLECULAR MECHANISMS REGULATING FORMATION OF DIVERSE STEM CELL PROGENITORS
375	\$86,104	NATIONAL SCIENCE FOUNDATION	TerAvest, Michaela	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	CAREER: A NOVEL MICROBIAL ELECTROSYNTHESIS PLATFORM BUILT ON A MODEL ELECTRON TRANSFER PATHWAY
376	\$65,838	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	Zacharewski, Timothy	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	AHR-DEPENDENT PKM2 REGULATION IN NAFLD PROGRESSION
377	\$71,866	NATIONAL INST OF HEALTH	Zacharewski, Timothy	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	ADVANCING CHEMICAL AND DRUG SAFETY TESTING USING SINGLE-CELL RNA-SEQUENCING
378	\$214,515	US DEPT OF ENERGY	Beck, Warren	CHEMISTRY	LIGHT HARVESTING IN SEMICONDUCTOR QUANTUM DOTS
379	\$104,173	NATIONAL INST OF HEALTH	Borhan, Babak	CHEMISTRY	PROTEIN/CHROMOPHORE INTERACTIONS VIA PROTEIN DESIGN: INTERROGATION AND APPLICATION
380	\$35,000	UNIVERSITY OF WISCONSIN MADISON	Cooper, Melanie	CHEMISTRY	DEVELOPING LEARNING ENVIRONMENTS THAT SUPPORT MOLECULAR-LEVEL SENSEMAKING
381	\$296,688	NATIONAL SCIENCE FOUNDATION	Cooper, Melanie	CHEMISTRY	GREEN CHEMISTRY DESIGN PRINCIPLES
382	\$165,000	US DEPT OF ENERGY	Dantus, Marcos	CHEMISTRY	SISGR: UNDERSTANDING AND CONTROLLING STRONG-FIELD LASER INTERACTIONS WITH POLYATOMIC MOLECULES
383	\$16,677	IPG PHOTONICS	Dantus, Marcos	CHEMISTRY	PULSE METROLOGY FOR QUANTITATIVE DETERMINATION OF AN ULTRAFAST LASER POWER FIGURE OF MERIT
384	\$165,000	US DEPT OF ENERGY	Hamann, Thomas	CHEMISTRY	CONTROLLING CHARGE TRANSFER AND TRANSPORT WITH FIRST ROW TRANSITION METAL COMPLEXES
385	\$167,421	NORTHWESTERN UNIV	Harel, Elad	CHEMISTRY	EAGER: ENABLING QUANTUM LEAP: DRIVEN NON-EQUILIBRIUM ROOM TEMPERATURE QUANTUM STATES
386	\$200,000	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Harel, Elad	CHEMISTRY	MULTI-DIMENSIONAL VIBRATIONAL-ELECTRONIC SPECTROSCOPY TO PROBE ELECTRONIC-TO-VIBRATIONAL ENERGY TRANSFER IN HYBRID NANOMATERIALS

Gift, Grant and Contract Report

Board of Trustees

December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
387	\$292,885	GLYCAN THERAPEUTICS	Huang, Xuefei	CHEMISTRY	SYNTHESIS OF DIVERSE HEPARAN SULFATE OLIGOSACCHARIDE LIBRARIES FOR UNDERSTANDING GLYCOSAMINOGLYCAN BIOLOGY
388	\$135,000	PRINCETON UNIV	McCusker, James	CHEMISTRY	BIOINSPIRED LIGHT-ESCALATED CHEMISTRY (BIOLEC)
389	\$219,950	US DEPT OF ENERGY	Smith, Milton	CHEMISTRY	ELECTROCATALYTIC OXIDATION OF AMMONIA FOR ENERGY CONVERSION AND STORAGE
390	\$57,450	INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS	Sun, Liangliang	CHEMISTRY	COMPUTATIONAL TOOLS FOR PROTEOFORM IDENTIFICATION BY TOP-DOWN DATA INDEPENDENT ACQUISITION MASS SPECTROMETRY
391	\$368,746	NATIONAL INST OF HEALTH	Tepe, Jetze	CHEMISTRY	SMALL MOLECULE INDUCED PROTEOLYTIC DESTRUCTION OF INTRINSICALLY DISORDERED PROTEINS
392	\$220,149	NATIONAL INST OF HEALTH	Tepe, Jetze	CHEMISTRY	MULTIPARAMETER OPTIMIZATION OF NEW PHENOTHIAZINES FOR PROTEASOME ACTIVATION
393	\$433,399	NATIONAL SCIENCE FOUNDATION	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	A DATA-DRIVEN APPROACH TO MULTISCALE METHODS FOR SCALABLETRANSPORT IN NEUTRON STAR MERGERS AND COMPLEX PLASMAS
394	\$75,000	LAWRENCE LIVERMORE NATIONAL LABORATORY	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	A REALIZATION OF KINETIC THEORY MOLECULAR DYNAMICS: A STUDY OF THE PHYSICS OF STOPPING POWER
395	\$77,562	NATIONAL SCIENCE FOUNDATION	Hirn, Matthew	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: UNDERSTANDING INVARIANT CONVOLUTIONAL NEURAL NETWORKS THROUGH MANY PARTICLE PHYSICS
396	\$18,000	GOOGLE.ORG	Krishnan, Arjun	COMPUTATIONAL MATH SCI AND ENGR CNS	CMSE EXTENDED MENTORSHIP PROGRAM
397	\$67,446	NATIONAL INST OF HEALTH	Mancuso, Christopher	COMPUTATIONAL MATH SCI AND ENGR CNS	INCORPORATING MOLECULAR NETWORK KNOWLEDGE INTO PREDICTIVE DATA-DRIVEN MODELS
398	\$401,234	NATIONAL SCIENCE FOUNDATION	O'Shea, Brian	COMPUTATIONAL MATH SCI AND ENGR CNS	REU SITE: ICER ACRES: ICER ADVANCED COMPUTATIONAL RESEARCH EXPERIENCE FOR STUDENTS
399	\$79,990	UNIVERSITY OF MICHIGAN	Xie, Yuying	COMPUTATIONAL MATH SCI AND ENGR CNS	ADVANCE VACCINE ADJUVANT COMBINATIONS TO OVERCOME INSENSITIVITY TO STING AGONISTS
400	\$200,000	NATIONAL SCIENCE FOUNDATION	Yan, Ming	COMPUTATIONAL MATH SCI AND ENGR CNS	DISTRIBUTED SYNCHRONOUS AND ASYNCHRONOUS STOCHASTIC OPTIMIZATION ALGORITHMS OVER NETWORK
401	\$25,177	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	HIGH-INTENSITY MANAGEMENT OF NITROGEN IN WHEAT: HOW SOIL WATER FORECAST MODELING IMPROVES FERTILIZER EFFICIENCY

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
402	\$151,950	UNIVERSITY OF ILLINOIS	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	AI INSTITUTE: ARTIFICIAL INTELLIGENCE FOR FUTURE AGRICULTURAL RESILIENCE, MANAGEMENT, AND SUSTAINABILITY (AIFARMS)
403	\$78,190	INVAIO SCIENCES	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	QUANTIFYING AND PREDICTING SPATIAL VARIABILITY OF APPLE TREE HEALTH AND PRODUCTIVITY USING REMOTE SENSING AND GROUND-TRUTH OBSERVATIONS
404	\$114,099	UNIVERSITY OF ALASKA	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	21ST CENTURY REGIONAL SEA LEVEL PROJECTIONS DUE TO LAND MASS LOSSES AND GEODYNAMIC ADJUSTMENTS USING 3-D EARTH MODELS
405	\$67,750	UNIVERSITY OF MICHIGAN	Schrenk, Matthew	EARTH AND ENVIRONMENTAL SCIENCES	OMNIBUS SUPPLEMENTAL 2020/2021: NEXT GENERATION TRACERS OF SEPTIC FIELD INFLUENCE ON SURFACE & GROUNDWATER ECOSYSTEMS IN THE SAGINAW BAY WATERSHED
406	\$249,999	NATIONAL SCIENCE FOUNDATION	Schrenk, Matthew	EARTH AND ENVIRONMENTAL SCIENCES	GP-GO: BUILDING LATINX PATHWAYS INTO GEOSCIENCE GRADUATE EDUCATION THROUGH R1-HSI-NONPROFIT COLLABORATIONS
407	\$299,847	NATIONAL SCIENCE FOUNDATION	White, Peter	ENTOMOLOGY NATURAL SCIENCE	AN INTEGRATIVE APPROACH FOR TEACHING AND LEARNING ABOUT BIOLOGICAL EVOLUTION THROUGH THE HUMAN MALADIES OF ADDICTION, AUTOIMMUNE DISEASE, SLEEP DISORDERS, AND CANCER
408	\$8,000	AMER GENETIC ASSOC	Boughman, Janette	INTEGRATIVE BIOLOGY	EPIGENETIC UNDERPINNINGS OF PLASTICITY ACROSS EVOLUTIONARY AND ECOLOGICAL TIMESCALES IN ICELANDIC STICKLEBACK
409	\$1,621,944	NATIONAL SCIENCE FOUNDATION	Braasch, Ingo	INTEGRATIVE BIOLOGY	EDGE FGT: FUNCTIONAL GENOMICS IN GAR - DISCOVERY TOOLS FOR MAJOR VERTEBRATE TRANSITIONS
410	\$71,270	REVIVE & RESTORE	Meek, Mariah	INTEGRATIVE BIOLOGY	A DEEP CATALOG OF DIVERSITY FOR INTERROGATING ADAPTIVE VARIATION IN CHINOOK SALMON
411	\$14,268	MINNESOTA DEPT OF NATURAL RESOURCES	Meek, Mariah	INTEGRATIVE BIOLOGY	GENOMIC ANALYSIS OF MINNESOTA BROOK TROUT
412	\$39,010	NATIONAL SCIENCE FOUNDATION	Zipkin, Elise	INTEGRATIVE BIOLOGY	COLLABORATIVE PROPOSAL: MSB-ECA: A MULTI-SCALE FRAMEWORK TO QUANTIFY AND FORECAST POPULATION CHANGES AND ASSOCIATED UNCERTAINTIES
413	\$858,309	NATIONAL SCIENCE FOUNDATION	Fitzpatrick, Sarah	KELLOGG BIOLOGICAL STATION NAT SCI	BEE: TESTING ECO-EVOLUTIONARY EFFECTS OF GENETIC DRIFT AND GENE FLOW IN STRESSFUL ENVIRONMENTS
414	\$53,501	DUKE UNIV	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT SCI	MANAGING METAPOPULATIONS OF THREATENED SPECIES ACROSS JURISDICTIONAL BOUNDARIES: QUANTIFYING EFFECTS OF CLIMATE CHANGE, ENVIRONMENTAL SYNCHRONY, DISPERSAL, AND CORRIDORS
415	\$200,000	NATIONAL SCIENCE FOUNDATION	Cheng, Yingda	MATHEMATICS	DEVELOPMENT OF ADAPTIVE SPARSE GRID DISCONTINUOUS GALERKIN METHODS FOR MULTISCALE KINETIC SIMULATIONS IN PLASMAS

Gift, Grant and Contract Report Board of Trustees December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
416	\$82,403	NATIONAL SCIENCE FOUNDATION	Kachkovskiy, Ilya	MATHEMATICS	CAREER: QUANTUM SYSTEMS WITH DETERMINISTIC DISORDER
417	\$91,000	BRISTOL MYERS SQUIBB	Wei, Guowei	MATHEMATICS	VIRTUAL PATIENT SIMULATION AND ALAYSIS FOR BMS' HEART FAILURE MODEL AND PREDICTION OF FPR2 AGONIST EFFICACY
418	\$116,389	NATIONAL INST OF HEALTH	Wei, Guowei	MATHEMATICS	SYNERGISTIC INTEGRATION OF TOPOLOGY AND MACHINE LEARNING FOR THE PREDICTIONS OF PROTEIN-LIGAND BINDING AFFINITIES AND MUTATION IMPACTS
419	\$244,815	NATIONAL SCIENCE FOUNDATION	Wei, Guowei	MATHEMATICS	III: MEDIUM: DE RHAM-HODGE THEORY MODELING AND LEARNING OF BIOMOLECULAR DATA
420	\$258,575	BILL & MELINDA GATES FOUNDATION	Abramovitch, Robert	MICROBIOLOGY MOLECULAR GENETICS CNS	PROOF-OF-CONCEPT STUDIES USING ENDOPEROXIDE DOSRST INHIBITORS IN COMBINATION WITH TB ANTIBIOTICS
421	\$717,958	NATIONAL INST OF HEALTH	Abramovitch, Robert	MICROBIOLOGY MOLECULAR GENETICS CNS	CHEMICAL GENETICS OF M. TUBERCULOSIS DOSRST SIGNALING AND PERSISTENCE
422	\$146,400	UNIVERSITY OF MICHIGAN	DiRita, Victor	MICROBIOLOGY MOLECULAR GENETICS CNS	FITNESS OF GRAM-NEGATIVE PATHOGENS DURING BACTEREMIA
423	\$97,773	NATIONAL SCIENCE FOUNDATION	Martinez Gomez, Norma	MICROBIOLOGY MOLECULAR GENETICS CNS	CAREER: UNCOVERING RARE EARTH ELEMENTS BIOCHEMISTRY: FROM ENZYMES TO ECOSYSTEMS
424	\$39,085	VAN ANDEL RESEARCH INST	Schwartz, Richard	NATURAL SCIENCE DEAN	VAN ANDEL RESEARCH INSTITUTE GRADUATE RECRUITMENT OF MSU GRADUATE STUDENTS
425	\$45,134	NATIONAL INST OF HEALTH	Galligan, James	NEUROSCIENCE PROGRAM	ENTERIC NEURONAL AGGREGATION OF A-SYNUCLEIN CAUSES DISRUPTION IN COLONIC NEUROTRANSMISSION AND RESULTS IN COLONIC DYSMOTILITY
426	\$50,271	FERMI NATIONAL ACCELERATOR LABORATORY	Berz, Martin	PHYSICS ASTRONOMY	NONLINEAR MUON BEAM DYNAMICS AND SPIN-ENERGY CORRELATIONS FOR PRECISION G-2 MEASUREMENTS
427	\$168,736	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS ASTRONOMY	US ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
428	\$60,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chomiuk, Laura	PHYSICS ASTRONOMY	TOWARDS A UNIVERSAL SCENARIO FOR SHOCK FORMATION IN NOVAE
429	\$79,658	OAK RIDGE NATIONAL LABORATORY	Couch, Sean	PHYSICS ASTRONOMY	EXASTAR: MULTI-PHYSICS STELLAR ASTROPHYSICS SIMULATIONS AT THE EXASCALE

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
430	\$11,279	SPACE TELESCOPE SCIENCE INST	Donahue, Megan	PHYSICS ASTRONOMY	TESTING THE LIMITS OF AGN FEEDBACK IN STARBURST AND QSO CENTRAL CLUSTER GALAXIES
431	\$143,404	PRINCETON UNIV	Dykman, Mark	PHYSICS ASTRONOMY	MATERIALS FOR ULTRA-COHERENT, MOBILE, ELECTRON-SPIN QUBITS
432	\$500,000	UNIVERSITY OF WISCONSIN MADISON	Grant, Darren	PHYSICS ASTRONOMY	WOU-MMA: ICECUBE DATA ANALYSIS IN THE U.S.
433	\$1,065,000	NATIONAL SCIENCE FOUNDATION	Huston, Joey	PHYSICS ASTRONOMY	INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER
434	\$20,000	NATIONAL SCIENCE FOUNDATION	Huston, Joey	PHYSICS ASTRONOMY	CTEQ SCHOOLS ON QCD ANALYSIS AND PHENOMENOLOGY
435	\$56,000	NIOWAVE INC	Ruan, Chong-Yu	PHYSICS ASTRONOMY	ULTRAFast ELECTRON MICROSCOPY MODULE TO UPGRADE EXISTING COMMERCIAL ELECTRON MICROSCOPES
436	\$60,725	COLUMBIA UNIV	Schwienhorst, Reinhard	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY UPGRADE (HL-LHC) WBS 6.06.01.02 MUON SMDT - MREFC - MSU
437	\$90,142	MICHIGAN TECHNOLOGICAL UNIVERSITY	Tollefson, Kirsten	PHYSICS ASTRONOMY	WOU-MMA: THE SOUTHERN WIDE-FIELD GAMMA-RAY OBSERVATORY (SWG0): R&D FOR A NEXT-GENERATION GROUND-BASED SURVEY INSTRUMENT FOR VHE GAMMA-RAY ASTRONOMY
438	\$330,000	NATIONAL SCIENCE FOUNDATION	Yuan, Chien-Peng	PHYSICS ASTRONOMY	GLOBAL QCD ANALYSIS AND PRECISION ELECTROWEAK PHYSICS IN HIGH ENERGY COLLIDER PHENOMENOLOGY
439	\$240,000	NATIONAL SCIENCE FOUNDATION	von Manteuffel, Andreas	PHYSICS ASTRONOMY	MULTI-LOOP AMPLITUDES AND PRECISE PREDICTIONS FOR THE LHC
440	\$34,740	NATIONAL INST OF HEALTH	Bazil, Jason	PHYSIOLOGY NATURAL SCIENCE	MECHANISMS OF MITOCHONDRIAL ULTRASTRUCTURAL CHANGES AND METABOLIC DYSFUNCTION CAUSED BY CALCIUM OVERLOAD
441	\$150,000	RITA ALLEN FOUNDATION	Laumet, Geoffroy	PHYSIOLOGY NATURAL SCIENCE	CELLULAR AND MOLECULAR MECHANISMS UNDERLYING REMISSION AND RELAPSE OF PAIN
442	\$187,433	NATIONAL SCIENCE FOUNDATION	Long, Tammy	PLANT BIOLOGY CNS	ECR DBER DCL: DESCRIBING THE NEUROBEHAVIORAL EFFECTS OF MODELING- BASED INSTRUCTION IN UNDERGRADUATE LIFE SCIENCES EDUCATION
443	\$99,999	MARINE BIOLOGICAL LABORATORY	Malmstrom, Carolyn	PLANT BIOLOGY CNS	STICKY ROOTS — IMPLICATIONS OF ALTERED RHIZO DEPOSITION (DRIVEN BY CRYPTIC, VIRAL INFECTION OF PLANTS) FOR THE FATE OF RHIZOSPHERE MINERAL–ORGANIC MATTER ASSOCIATIONS IN NATURAL ECOSYSTEMS
444	\$480,255	NATIONAL SCIENCE FOUNDATION	Weber, Marjorie	PLANT BIOLOGY CNS	COLLABORATIVE RESEARCH: DIVERSIFYING AND HUMANIZING SCIENTIST ROLE MODELS TO INCREASE THE IMPACT OF DATA LITERACY INSTRUCTION ON STUDENT INTEREST AND RETENTION IN STEM

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
445	\$3,750,000	US DEPT OF ENERGY	Benning, Christoph	PLANT RESEARCH LABORATORY NAT SCIENCE	PHOTOSYNTHETIC ENERGY CAPTURE, CONVERSION AND STORAGE: FROM FUNDAMENTAL MECHANISMS TO MODULAR ENGINEERING
446	\$305,452	NATIONAL SCIENCE FOUNDATION	Ducat, Daniel	PLANT RESEARCH LABORATORY NAT SCIENCE	CAREER: ILLUMINATING EMERGENT MICROBIAL INTERACTIONS VIA MODULAR SYNTHETIC CONSORTIA
COLLEGE OF NURSING					
447	\$14,670	VIRGINIA COMMONWEALTH UNIV	Goldstein, Dawn	NURSING	PRIMARY CARE IMPROVED OUTCOMES WITH NURSES IN EVOLVING AND EXPANDING ROLES (PIONEER)
COLLEGE OF OSTEOPATHIC MEDICINE					
448	\$234,750	NATIONAL INST OF HEALTH	Kuo, Min	BIOCHEMISTRY AND MOLECULAR BIOLOGY COM	EPIMAX-RCR: CONTROLLED EXPRESSION OF POST-TRANSLATIONALLY MODIFIED PROTEINS IN EUKARYOTES
449	\$99,921	MICHIGAN HEALTH ENDOWMENT FUND	Luz, Clare	FAMILY AND COMMUNITY MEDICINE	COLLEGE STUDENT CAREGIVER STUDY
450	\$28,300	AARP FOUNDATION	Luz, Clare	FAMILY AND COMMUNITY MEDICINE	DIGITAL SENIOR COMPANIONSHIP PROGRAM
451	\$8,221	REVANCE THERAPEUTICS INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, OPEN-LABEL, MULTI-CENTER TRIAL TO EVALUATE THE LONG-TERM SAFETY AND EFFICACY OF REPEAT TREATMENTS OF DAXIBOTULINUMTOXINA FOR INJECTION IN ADULTS WITH ISOLATED CERVICAL DYSTONIA (ASPEN-OLS)
452	\$5,885	GLOBAL KINETICS CORP	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	UTILIZATION OF TARGET RANGES TO TREAT PATIENTS WITH PARKINSON'S DISEASE BY OBJECTIVE MEASUREMENT USING THE PERSONAL KINETIGRAPH® (PKG®) COMPARED TO STANDARD OF CARE ASSESSMENT (TARGET-PD)- A RANDOMIZE
453	\$11,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Khalil, Suad	NEUROLOGY AND OPHTHALMOLOGY COM	NEUROLOGY TELEMEDICINE PROJECT
454	\$6,250	MUSCULAR DYSTROPHY ASSOC INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	MSU DEPARTMENT OF NEUROLOGY MDA CARE CENTER
455	\$10,402	ALEXION PHARMACEUTICALS INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, MULTICENTER STUDY TO EVALUATE THE SAFETY AND EFFICACY OF RAVULIZUMAB IN COMPLEMENT-INHIBITOR-NAÏVE ADULT PATIENTS WITH GENERALIZED MYASTHENIA
456	\$85,452	SEATTLE CHILDRENS RESEARCH INST	Seydel, Karl	OSTEOPATHIC MEDICAL SPECIALTIES COM	MOLECULAR MECHANISMS IN PEDIATRIC CEREBRAL MALARIA PATHOGENESIS AND IMMUNITY

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
457	\$45,781	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	INTERDISCIPLINARY MALARIA RESEARCH TRAINING IN MALAWI
458	\$100,000	AMER OSTEOPATHIC ASSOC	Cholewicki, Jacek	OSTEOPATHIC SURGICAL SPECIALTIES	ROLE OF OSTEOPATHIC MANIPULATIVE MEDICINE IN RECOVERY FROM CONCUSSIONS
459	\$7,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Greenberg, Joel	PEDIATRICS	PEDIATRIC EPILEPSY ACCESS PROJECT - COLLEGE OF OSTEOPATHIC MEDICINE
460	\$81,472	FIBROSIX LLC	Krieger-Burke, Teresa	PHARMACOLOGY TOXICOLOGY	DEMONSTRATING THE FEASIBILITY OF CCG-257081 AS A PREVENTIVE THERAPY TO INHIBIT BLEOMYCIN-INDUCED LUNG FIBROSIS IN MICE
461	\$175,000	BREAST CANCER RESEARCH FOUNDATION	Liby, Karen	PHARMACOLOGY TOXICOLOGY	CHEMOPREVENTION OF EXPERIMENTAL ESTROGEN-RECEPTOR NEGATIVE BREAST CANCER
462	\$376,047	NATIONAL INST OF HEALTH	Neubig, Richard	PHARMACOLOGY TOXICOLOGY	MECHANISM OF ACTION OF INHIBITORS OF MRTF/SRF-REGULATED GENE TRANSCRIPTION
463	\$474,397	NATIONAL INST OF HEALTH	Tewari-Singh, Neera	PHARMACOLOGY TOXICOLOGY	TARGETED THERAPEUTIC APPROACHES TO COUNTERACT TOXICITY FROM PHOSGENE OXIME SKIN EXPOSURE
464	\$311,729	US ARMY RESEARCH OFFICE	Tewari-Singh, Neera	PHARMACOLOGY TOXICOLOGY	MAST CELLS IN SULFUR MUSTARD EXPOSURE: NOVEL TARGETS FOR MODULATION TO DEVELOP THERAPIES AGAINST THE LONG-TERM HEALTH EFFECTS IN GULF WAR VETERANS
465	\$14,758	UNIVERSITY OF NORTH CAROLINA	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	UNDERSTANDING MATERNAL-FETAL ZIKA VIRUS TRANSMISSION AND ITS COMPLICATIONS IN NICARAGUA
466	\$160,076	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	CAREGIVER EARLY CHILD DEVELOPMENT TRAINING FOR PREVENTING KONZO FROM TOXIC CASSAVA IN THE DR CONGO
467	\$7,088	UNIVERSITY OF CHICAGO	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	IMPACT OF HOUSEHOLD AIR POLLUTION (HAP) IN-UTERO THROUGH EARLY CHILDHOOD ON CHILD NEUROCOGNITIVE DEVELOPMENT FROM INFANCY TO 8 YEARS (HAPCOG STUDY)
468	\$18,900	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Scheid, Jeanette	PSYCHIATRY OSTEOPATHIC MEDICINE	ADDITIONAL SERVICE OF PHYSICIAN REVIEWER FOR THE STATE OF MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES EFFECTIVE 10/1/20
469	\$26,017	UNIVERSITY OF ARIZONA	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	POST-CHEMOTHERAPY SYMPTOM MANAGEMENT: TESTING INTERVENTION SEQUENCES IN A SMART DESIGN

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
470	\$10,188	UNIVERSITY OF ARIZONA	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	IMPROVING INFORMAL CAREGIVERS' AND CANCER SURVIVORS' PSYCHOLOGICAL DISTRESS, SYMPTOM MANAGEMENT AND HEALTH CARE USE
471	\$34,709	GRAND VALLEY STATE UNIV	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	STATEWIDE IMPLEMENTATION OF CAPABLE-COMMUNITY AGING IN PLACE, ADVANCING BETTER LIVING FOR ELDERLY IN THE MICHIGAN MEDICAID HOME AND COMMUNITY BASED WAIVER PROGRAM.
COLLEGE OF SOCIAL SCIENCE					
472	\$17,970	CITY OF TUCSON	Radonic, Lucero	ANTHROPOLOGY SOCIAL SCIENCE	RAINWATER HARVESTING GRANT/LOAN PROGRAM: A QUALITATIVE EVALUATION OF A CONSERVATION PROGRAM
473	\$232,706	UNIVERSITY OF NEBRASKA OMAHA	Holt, Thomas	CRIMINAL JUSTICE	ASSESSING THE LIFE HISTORIES AND BACKGROUND OF IDEOLOGICALLY MOTIVATED ACTORS ENGAGING IN CYBERATTACKS AND ONLINE VIOLENCE
474	\$10,000	MICHIGAN PUBLIC HEALTH INST	Krupa, Julie	CRIMINAL JUSTICE	COMPLIANCE AND DISPROPORTIONATE MINORITY CONTACT MONITORING SUPPORT
475	\$122,548	SAN JOSE STATE UNIVERSITY	Melde, Christopher	CRIMINAL JUSTICE	SAN JOSE NEIGHBORHOOD CRIME SURVEY: AN EXAMINATION OF THE RELATIONSHIP BETWEEN IMMIGRATION AND VICTIMIZATION
476	\$13,871	UNIVERSITY OF MICHIGAN	Zeoli, April	CRIMINAL JUSTICE	BUILDING RESEARCH CAPACITY FOR FIREARM AMONG CHILDREN
477	\$1,357,336	RAND CORP	Zeoli, April	CRIMINAL JUSTICE	A MULTI-STATE EVALUATION OF EXTREME RISK PROTECTION ORDERS: IMPLEMENTATION, OUTCOMES, AND JURISDICTIONAL VARIATIONS
478	\$332,596	NATIONAL SCIENCE FOUNDATION	Zhao, Jinhua	ECONOMICS	COLLABORATIVE RESEARCH: CONSERVATION TILLAGE FOR SUSTAINABLE FOOD, ENERGY AND WATER SYSTEMS: LINKED ECONOMETRIC AND PROCESS-BASED MODELS
479	\$13,392	SYNOPTIC DATA CORP	Andresen, Jeffrey	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	NATIONAL MESONET PROGRAM FOR MSU ENVIRONMENTAL EFFORT
480	\$132,682	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	A WEB & GIS-BASED 3D VISUALIZATION PLATFORM FOR ELECTRONIC PERMITTING, EMISSIONS REPORTING, AND COMPLIANCE ASSURANCE FOR MICHIGAN INDUSTRIAL FACILITIES
481	\$338,406	MICHIGAN HEALTH ENDOWMENT FUND	Grady, Sue	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	NATIVE AMERICAN BREASTFEEDING INITIATIVE EMBRACING CULTURE
482	\$491,534	CLEMSON UNIV	Mack, Elizabeth	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	FW-HTF-RL: PREPARING THE FUTURE WORKFORCE FOR THE ERA OF AUTOMATED VEHICLES (WEAVE)

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
483	\$100,832	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Pearson, Amber	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	HEALTH POLICY ANALYSIS AND MAPPING
484	\$100,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chen, Jiquan	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	INTERDEPENDENT DYNAMICS OF FOOD, ENERGY AND WATER IN KAZAKHSTAN AND MONGOLIA: CONNECTING LULCC TO THE TRANSITIONAL SOCIOECOLOGICAL SYSTEMS
485	\$9,825	TETRA TECH INC	McConnell, William	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	MADAGASCAR WOODFUELS FIELD TEAM LEADED FOR WOODFUELS CASE STUDY
486	\$570,894	NATIONAL SCIENCE FOUNDATION	Moran, Emilio	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	GCR: CONVERGENCE FOR INNOVATIVE ENERGY SOLUTIONS: EMPOWERING OFF-GRID COMMUNITIES WITH SUSTAINABLE ENERGY TECHNOLOGIES
487	\$221,046	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	ASSESSING THE IMPACTS OF DAMS ON THE DYNAMIC INTERACTIONS AMONG DISTANT WETLANDS, LAND USE, AND RURAL COMMUNITIES IN THE LOWER MEKONG RIVER BASIN
488	\$253,294	US GEOLOGICAL SURVEY	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	PATHFINDING NEAR REAL TIME MODERATE RESOLUTION LAND SURFACE MONITORING, LOOKING FORWARD TO AN OPERATIONAL LANDSAT 9/10 SENTINEL 2A/2B ERA
489	\$344,584	INST OF EDUCATION SCIENCES	Douglas, Sarah	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	ONLINE TRAINING FOR PARAEDUCATORS TO IMPROVE COMMUNICATION SUPPORTS FOR YOUNG CHILDREN WITH COMPLEX COMMUNICATION NEEDS
490	\$497,255	HIGHSCOPE EDUCATIONAL RESEARCH FOUNDATION	Skibbe, Lori	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	SUPPORTING PRESCHOOL AND KINDERGARTEN STUDENTS' SELF-REGULATION THROUGH HIGHSCOPE CURRICULUM ENHANCEMENTS: PLAN-DO-REVIEW AND CONFLICT RESOLUTION
491	\$54,913	WAYNE STATE UNIV	Vallotton, Claire	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	RECOGNIZING, REFLECTING, AND RESPONDING TO INFANT/TODDLER CUES: AN INTEGRATED PARENT-TEACHER INTERVENTION TO SUPPORT SOCIAL-EMOTIONAL DEVELOPMENT THROUGH CAREGIVER MINDFULNESS AND SENSITIVITY
492	\$379,017	NATIONAL PARK SERVICE	Camp, Stacey	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	THE INTERNMENT ARCHAEOLOGY DIGITAL ARCHIVE
493	\$75,000	ROBERT & ARDIS JAMES FOUNDATION	Macdowell, Marsha	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	QUILT INDEX
494	\$10,000	AMER POLITICAL SCIENCE ASSOC	Juenke, Eric	POLITICAL SCIENCE	CANDIDATE CHARACTERISTICS COOPERATIVE VIRTUAL WORKSHOP

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
495	\$80,537	CRIM FITNESS FOUNDATION	Acevedo, Ignacio	PSYCHOLOGY SOCIAL SCIENCE	FLINT COMMUNITY EDUCATION EVALUATION 2020
496	\$250,000	OFFICE OF NAVAL RESEARCH	Altmann, Erik	PSYCHOLOGY SOCIAL SCIENCE	EFFECTS OF SLEEP DEPRIVATION AND INDIVIDUAL DIFFERENCES ON PROCEDURAL PLACEKEEPING
497	\$17,200	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Brandt, Mark	PSYCHOLOGY SOCIAL SCIENCE	IDENTIFYING EFFICIENT TARGETS OF MORAL PERSUASION
498	\$32,195	BOSTON UNIV	Brascamp, Jan	PSYCHOLOGY SOCIAL SCIENCE	HOW DOES NORMALIZATION REGULATE VISUAL COMPETITION?
499	\$372,421	NATIONAL SCIENCE FOUNDATION	Buchanan, Nicole	PSYCHOLOGY SOCIAL SCIENCE	COLLABORATIVE RESEARCH: ECR EIE DCL: EPISTEMIC EXCLUSION: SCHOLAR(LY) DEVALUATION AS A BARRIER TO INCLUSION AND EQUITY OF WOMEN AND FACULTY OF COLOR IN STEM
500	\$156,365	NATIONAL INST OF HEALTH	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	MECHANISMS UNDERLYING RESILIENCE TO NEIGHBORHOOD DISADVANTAGE (ADMINISTRATIVE SUPPLEMENT)
501	\$72,805	MICHIGAN STATE POLICE	Campbell, Rebecca	PSYCHOLOGY SOCIAL SCIENCE	MICHIGAN STATE POLICE (MSP) SEXUAL ASSAULT KIT INITIATIVE (SAKI) PROJECT
502	\$37,395	NATIONAL INST OF HEALTH	Carroll, Sarah	PSYCHOLOGY SOCIAL SCIENCE	THE ROLE OF ENVIRONMENTAL DISADVANTAGE IN THE ETIOLOGIC MODERATION OF CHILDREN'S ANTISOCIAL BEHAVIOR
503	\$37,465	NATIONAL INST OF HEALTH	Frost, Kyle	PSYCHOLOGY SOCIAL SCIENCE	USING THE THEORY OF CHANGE FRAMEWORK TO MAP ACTIVE INGREDIENTS AND MECHANISMS OF CHANGE UNDERLYING AN EARLY PARENT-IMPLEMENTED INTERVENTION FOR AUTISM SPECTRUM DISORDER
504	\$675,471	NATIONAL INST OF HEALTH	Levendosky, Alytia	PSYCHOLOGY SOCIAL SCIENCE	TIMING OF PRENATAL STRESS AND EARLY MARKERS OF CHILD PSYCHOPATHOLOGY
505	\$434,706	NATIONAL SCIENCE FOUNDATION	Liu, Taosheng	PSYCHOLOGY SOCIAL SCIENCE	THE PROFILE OF FEATURE-BASED ATTENTION: A NEW FRAMEWORK
506	\$22,526	UNIVERSITY OF RENNES 1	Lonstein, Joseph	PSYCHOLOGY SOCIAL SCIENCE	INFLUENCE OF POSTPARTUM DEPRESSION AND PROBIOTIC TREATMENT ON MATERNAL BRAIN SEROTONIN AND CAREGIVING BEHAVIORS.
507	\$9,918	MPACT GLOBAL ACTION	Miller, Robin	PSYCHOLOGY SOCIAL SCIENCE	DEVELOPMENT OF AN EVALUATION TOOLKIT FOR ADVOCACY INITIATIVES ADDRESSING GAY MEN'S HEALTH AND RIGHTS
508	\$191,716	NATIONAL INST OF HEALTH	Puckett, Jae	PSYCHOLOGY SOCIAL SCIENCE	MEASURE DEVELOPMENT TO ADVANCE THE SCIENTIFIC STUDY OF MINORITY STRESS IN TRANSGENDER INDIVIDUALS
509	\$32,000	HONEYWELL CORP	Ryan, Ann	PSYCHOLOGY SOCIAL SCIENCE	HONEYWELL STUDENT ASSISTANTSHIPS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
510	\$10,000	SOCIETY FOR INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY INC	Ryan, Ann	PSYCHOLOGY SOCIAL SCIENCE	PERFORMATIVE GESTURE OR GENUINELY SUPPORTIVE: THE IMPACT OF WORKPLACE RESPONSES TO THE RACIAL INJUSTICE MOVEMENT ON EMPLOYEES
511	\$172,496	INGHAM COUNTY	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	INGHAM COUNTY ADOLESCENT DIVERSION PROJECT
512	\$387,871	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	VOCA DISCRETIONARY TRAINING
513	\$368,307	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	CRIME VICTIM ADMINISTRATIVE FEDERAL ASSISTANCE
514	\$265,520	INST OF INTL EDUCATION	Green, Ashley	SOCIAL SCIENCE DEAN	H. HUBERT HUMPHREY FELLOWSHIP PROGRAM
515	\$410,244	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brock, Michele	SOCIAL WORK	KINSHIP SUPPORT PROGRAM
516	\$36,000	SOCIAL SCIENCE RESEARCH COUNCIL	Chaudhuri, Soma	SOCIOLOGY SOCIAL SCIENCE	PANDEMICS AND MIGRANT PRECARITY: NORTH-SOUTH DIALOGUES
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
517	\$42,000	ARIZONA STATE UNIV	Renn, Kristen	ASC PROVOST FOR UNDERGRADUATE EDUCATION	UIA FELLOWS, TRAVEL AND SCALING PROJECTS
518	\$10,000	INST FOR MEXICANS ABROAD	Garcia, Luis	MIGRANT STUDENT SERVICES	IME BECAS 2020
COLLEGE OF VETERINARY MEDICINE					
519	\$7,368	ULTRAGENYX PHARMACEUTICAL INC	Fyfe, John	MICROBIOLOGY AND MOLECULAR GENETICS CVM	TRANSLATIONAL MODEL OF GSD III
520	\$13,314	ALPACA RESEARCH FOUNDATION	Manfredi, Jane	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	THE ALPACA ANATOMY INITIATIVE: MUSCULOSKELETAL ANATOMY RELEVANT TO LAMENESS AND FRACTURE REPAIR
521	\$388,406	NATIONAL INST OF HEALTH	Petroff, Margaret	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	MATERNAL CENTRAL IMMUNE TOLERANCE IN REPRODUCTION
522	\$25,000	WINN FELINE FOUNDATION	Swenson, Cheryl	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	PROBING MODULATION OF FELV INTEGRATION SITES INTO THE CAT GENOME USING EPIGENETIC MODULATORS

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
523	\$45,520	NATIONAL INST OF HEALTH	Kuszynski, Dawn	PHARMACOLOGY TOXICOLOGY	THE VASCULAR EFFECTS OF CLOPIDOGREL METABOLITES
524	\$121,540	TISTOU & CHARLOTTE KERSTAN FOUNDATION	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	EFFICACY OF GENE AUGMENTATION THERAPY AT LATER STAGES OF RETINAL DEGENERATION IN A LARGE ANIMAL MODEL OF RETINITIS PIGMENTOSA DUE TO A PDE6A MUTATION
525	\$21,500	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Reams, Rachel	VETERINARY DIAGNOSTIC LABORATORY	LABORATORY SPACE AND EQUIPMENT USE FOR SURVEILLANCE OF SCRAPIE IN SHEEP AND GOATS FY20
526	\$12,000	US DEPT OF AGRICULTURE	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	AMENDMENT COOPERATIVE AGREEMENT 59-6040-9-002A1- SUPPORT USDA CAPITAL MANAGEMENT PLAN THROUGH PARTNERSHIP WITH MICHIGAN STATE UNIVERSITY
FACILITY FOR RARE ISOTOPE BEAMS					
527	\$40,000	ARGONNE NATIONAL LABORATORY	Bultman, Nathan	FACILITY FOR RARE ISOTOPE BEAMS	TRAINING ON THE NETOBS SOFTWARE
528	\$144,588	LAWRENCE BERKELEY NATIONAL LABORATORY	Lund, Steven	FACILITY FOR RARE ISOTOPE BEAMS	GRADUATE STUDENT AT LBNL - VALVERDE
529	\$217,000	US DEPT OF ENERGY	Nazarewicz, Witold	FACILITY FOR RARE ISOTOPE BEAMS	MICROSCOPIC DESCRIPTION OF THE FISSION PROCESS
530	\$110,000	US DEPT OF ENERGY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	MSU TRAINEESHIP PROGRAM TO ADDRESS CRITICAL WORKFORCE NEEDS IN ACCELERATOR SCIENCE & ENGINEERING
531	\$62,187	FERMI NATIONAL ACCELERATOR LABORATORY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	FERMILAB ACCELERATOR PHD PROGRAM OF CRISPIN CONTRERAS
532	\$61,055	FERMI NATIONAL ACCELERATOR LABORATORY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	FERMILAB ACCELERATOR PHD PROGRAM FOR KELLEN MCGEE
533	\$400,000	US DEPT OF ENERGY	Severin, Gregory	FACILITY FOR RARE ISOTOPE BEAMS	CORE RESEARCH AND DEVELOPMENT SUPPORT FOR ISOTOPE HARVESTING AT FRIB
534	\$85,000	NANOSONIC INC	Wei, Jie	FACILITY FOR RARE ISOTOPE BEAMS	LONG-TERM RADIATION RUGGED ROTARY VACUUM AND WATER SEALS IN HEAVY-ION ACCELERATORS
535	\$200,000	US DEPT OF ENERGY	York, Richard	FACILITY FOR RARE ISOTOPE BEAMS	HIGH RIGIDITY SPECTROMETER PROJECT – FY20 TO FY22

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
536	\$63,047	NATIONAL SCIENCE FOUNDATION	Brown, B	NAT'L SUPERCONDUCTING CYCLOTRON LAB	APPLICATIONS OF NUCLEAR STRUCTURE THEORY
537	\$588,000	NATIONAL SCIENCE FOUNDATION	Cortesi, Marco	NAT'L SUPERCONDUCTING CYCLOTRON LAB	MRI: DEVELOPMENT OF AN ENERGY LOSS OPTICAL SCINTILLATION SYSTEM (ELOSS), FOR HEAVY-ION PARTICLE IDENTIFICATION (PID) TO ADVANCE NUCLEAR PHYSICS EXPERIMENTS
538	\$1,600,000	NATIONAL SCIENCE FOUNDATION	Gueye, Paul	NAT'L SUPERCONDUCTING CYCLOTRON LAB	WINDOWS ON THE UNIVERSE: STUDY OF OPEN QUANTUM SYSTEMS IN ATOMIC NUCLEI
539	\$250,000	US DEPT OF ENERGY	Hjorth Jensen, Morten	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FROM QUARKS TO STARS; A QUANTUM COMPUTING APPROACH TO THE NUCLEAR MANY-BODY PROBLEM
540	\$275,000	US DEPT OF ENERGY	Liddick, Sean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NEUTRON CAPTURE CROSS SECTION MEASUREMENTS ON SHORT-LIVED ISOTOPES
541	\$751,000	US DEPT OF ENERGY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY ALLIANCE
542	\$88,257	LAWRENCE LIVERMORE NATIONAL LABORATORY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY FELLOW AT LAWRENCE LIVERMORE NATIONAL LABORATORY - HEBBORN
543	\$1,255,089	NATIONAL SCIENCE FOUNDATION	Schatz, Hendrik	NAT'L SUPERCONDUCTING CYCLOTRON LAB	JINA CENTER FOR THE EVOLUTION OF THE ELEMENTS
544	\$1,300,000	US DEPT OF ENERGY	Schatz, Hendrik	NAT'L SUPERCONDUCTING CYCLOTRON LAB	A NEXT GENERATION RECOIL SEPARATOR FOR NUCLEAR ASTROPHYSICS SECAR (SEPARATOR FOR CAPTURE REACTIONS)
545	\$1,008,015	NATIONAL SCIENCE FOUNDATION	Spyrou, Artemisia	NAT'L SUPERCONDUCTING CYCLOTRON LAB	WINDOWS ON THE UNIVERSE: NUCLEAR ASTROPHYSICS AT THE NSCL
546	\$270,000	US DEPT OF ENERGY	Tsang, Man-Yee	NAT'L SUPERCONDUCTING CYCLOTRON LAB	EXPANDING THE FRONTIERS OF NUCLEAR REACTIONS WITH RARE-ISOTOPE BEAMS
PROVOST AND ACADEMIC AFFAIRS					
547	\$8,300	ARTS COUNCIL OF GREATER LANSING	Word, Michelle	ART MUSEUM	2020 INGHAM COUNTY HOTEL/MOTEL GRANT
548	\$9,900	NATIONAL ENDOWMENT FOR THE HUMANITIES	Swanson, Lynne	MUSEUM	MSU MUSEUM SIYAZAMA COLLECTION REHOUSING AND PHOTOGRAPHY PROJECT
ASC PROV FOR UNIV OUTREACH ENGAGEMENT					
549	\$328,413	US DEPT OF EDUCATION	Gordillo, Paulo	ADMIN SUPPORT MLK INITIATIVE	MSU TALENT SEARCH PROGRAM

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
550	\$90,000	MICHIGAN DEPT OF EDUCATION	Wu, Jamie	COMMUNITY EVALUATION & RSCH COLLABRTVE	GREAT START READINESS PROGRAM EVALUATION GRANT
551	\$7,370	MICHIGAN FOOD & FARMING SYSTEMS	Siles, Marcelo	JULIAN SAMORA RESEARCH INSTITUTE	INCREASING ACCESS AND PARTICIPATION IN CROP INSURANCE PROGRAMS AMONG UNDERSERVED AND SOCIALLY DISADVANTAGED FARMERS THROUGH RISK MANAGEMENT EDUCATION, CULTURALLY APPROPRIATE OUTREACH, AND TECH ASSIST
552	\$150,000	US ECONOMIC DEVELOPMENT ADMINISTRATION	Lamore, Rex	OUTREACH AND ENGAGEMENT PARTNERSHIPS	MSU EDA UNIVERSITY CENTER FOR REGIONAL ECONOMIC INNOVATION (REI)
553	\$300,000	US ECONOMIC DEVELOPMENT ADMINISTRATION	Lamore, Rex	OUTREACH AND ENGAGEMENT PARTNERSHIPS	COMPREHENSIVE ECONOMIC RECOVERY INITIATIVE (CERI)
554	\$48,749	ONE LOVE GLOBAL INC	McNall, Miles	OUTREACH AND ENGAGEMENT PARTNERSHIPS	EVALUATION OF TRUTH, RACIAL HEALING AND TRANSFORMATION OF METRO LANSING
INTERNATIONAL STUDIES AND PROGRAMS					
555	\$1,300,000	GERALD & KAREN KOLSCHOWSKY FOUNDATION	Glew, Robert	INTERNATIONAL STUDIES AND PROGRAMS DEAN	TANZANIA PARTNERSHIP PROGRAM M & E
556	\$23,414	PEACE CORPS	Green, Ashley	INTERNATIONAL STUDIES AND PROGRAMS DEAN	CAMPUS RECRUITMENT SERVICES
557	\$59,928	FOREIGN AGRICULTURAL SERVICE	Maredia, Karimbhai	VISITING INTNL PROFESSIONAL PROGRAM	BORLAUG FELLOWSHIP PROGRAM - JORDAN - GENETICALLY ENGINEERED REGULATIONS - FELLOW #1
MSU AGBIORESEARCH					
558	\$41,422	CHONBUK NATIONAL UNIVERSITY	Gondro, Cedric	ANIMAL SCIENCE DEPARTMENT MABR	GENETIC IMPROVEMENT USING ARTIFICIAL INTELLIGENCE METHODOLOGY
559	\$562,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Asher, Aaron	MSU AGBIORESEARCH DIR OFC	CLINTON RIVER SENSOR PROJECT
560	\$299,935	US AGENCY FOR INTL DEVELOPMENT	Douches, David	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE BIOTECHNOLOGY PARTNERSHIP
561	\$56,889	US AGENCY FOR INTL DEVELOPMENT	Pittendrigh, Barry	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE INNOVATION LAB FOR LEGUME SYSTEMS RESEARCH (ILLSR)

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
562	\$50,000	UNIVERSITY OF WISCONSIN MADISON	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	A MULTI-PRONGED APPROACH TO CONTROLLING SCLEROTINIA STEM ROT
563	\$30,000	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING POTATO COMMON SCAB MANAGEMENT STRATEGIES BASED ON STREPTOMYCES SPP. DIVERSITY FROM SUPPRESSIVE AND NON-SUPPRESSIVE SITES
564	\$74,997	USDA FOREST SERVICE	Miesel, Jessica	PLANT SOIL AND MICROBIAL SCIENCES	ECOSYSTEM RESILIENCE AND CLIMATE-ADAPTIVE FOREST MANAGEMENT STRATEGIES
565	\$30,000	VARIOUS INDUSTRIES	Patterson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	PATTERSON PSM TESTING
566	\$18,153	MICHIGAN WHEAT PROGRAM	Pennington, Dennis	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS FROM MICHIGAN WHEAT PROGRAM TO COVER SALARY AND OPERATING EXPENSES FOR MSU WHEAT BREEDER FROM 7/1/2020 TO 9/30/20
567	\$174,057	USDA FOREST SERVICE	Sakalidis, Monique	PLANT SOIL AND MICROBIAL SCIENCES	DETERMINE THE DISTRIBUTION AND INCIDENCE OF CALICIOPSIS CANKER ON EASTERN WHITE PINE
568	\$5,152,696	NATIONAL INST OF FOOD & AGRICULTURE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	COMPREHENSIVE FIRE BLIGHT MANAGEMENT SYSTEMS FOR THE UNITED STATES
MICHIGAN STATE UNIVERSITY EXTENSION					
569	\$1,000,000	NATIONAL INST OF FOOD & AGRICULTURE	Jess, Lynnae	ENTOMOLOGY MSUE	NORTH CENTRAL INTEGRATED PEST MANAGEMENT CENTER (NCIPMC): A REGIONAL APPROACH TO PEST MANAGEMENT IMPLEMENTATION FY18-FY22
570	\$90,000	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Curell, Christina	EXTENSION AGRICULTURE AND AGRIBUSINESS	SOIL HEALTH NEXUS: STRENGTHENING SOIL HEALTH PROGRAMS FOR EDUCATORS AND FARMERS/RANCHERS IN THE NORTH CENTRAL REGION
571	\$10,400	MONSANTO CO	Goldy, Ronald	EXTENSION AGRICULTURE AND AGRIBUSINESS	2020 PICKLING CUCUMBER HYBRID TRIALS
572	\$8,344	PENNSYLVANIA STATE UNIV	Gould, Merrill	EXTENSION AGRICULTURE AND AGRIBUSINESS	ENERGY ANSWERS FOR THE BEGINNING FARMER AND RANCHERS
573	\$6,000	PICKLE PACKERS INTL INC	Phillips, Benjamin	EXTENSION AGRICULTURE AND AGRIBUSINESS	PARTHENOCARPIC CUCUMBER TRIAL INTERNSHIP AT SAGINAW RESEARCH FARM
574	\$10,900	MICHIGAN CHERRY COMMITTEE	Pochubay, Emily	EXTENSION AGRICULTURE AND AGRIBUSINESS	FURTHER INVESTIGATION OF HAND-APPLIED MATING DISRUPTION FOR SAN JOSE SCALE IN SWEET CHERRY
575	\$18,063	MICHIGAN CHERRY COMMITTEE	Rothwell, Nikki	EXTENSION AGRICULTURE AND AGRIBUSINESS	VERIFYING THE PROTOTYPE RISK MODEL FOR SPOTTED WING DROSOPHILA (SWD) IN MICHIGAN TART CHERRY

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
576	\$500,000	US ENVIRONMENTAL PROTECTION AGENCY	Smith, Thomas	EXTENSION AGRICULTURE AND AGRIBUSINESS	ENGAGING ALL STAKEHOLDERS: MEETING THE INCREASING NEEDS OF PESTICIDE APPLICATOR CERTIFICATION AND WORKER PROTECTION THROUGH INCREASED COLLABORATION AND DIVERSITY OF PARTNERS AND STAKEHOLDERS, WITH EXP
577	\$285,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Tocco, Phillip	EXTENSION AGRICULTURE AND AGRIBUSINESS	DEVELOPING A PRODUCE SAFETY PROGRAM IN MICHIGAN
578	\$15,000	MISSISSIPPI STATE UNIV	Barrett, Debra	EXTENSION CHILDREN AND YOUTH	OPPE WORKSHOP - YOUTH WITH AN EMPHASIS ON WORKFORCE DEVELOPMENT
579	\$86,940	NATIONAL 4H COUNCIL	Cox II, Frank	EXTENSION CHILDREN AND YOUTH	4-H NATIONAL MENTORING PROGRAM YEAR 10 NMP10 - COHORT 1
580	\$19,026	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS
581	\$15,049	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
582	\$383,108	MICHIGAN COMMUNITY SERVICE COMMISSION	Schulz, Jodi	EXTENSION CHILDREN AND YOUTH	4-H STEAM CORPS-MICHIGAN'S AMERICORPS FORMULA CONTINUATION 20-21
583	\$35,545	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Tobe, Erica	EXTENSION CHILDREN AND YOUTH	INFLUENZA AND ZOONOSSES EDUCATION AMONG YOUTH IN AGRICULTURE PROGRAM 2020
584	\$12,000	NATIONAL 4H COUNCIL	Wibby, Brian	EXTENSION CHILDREN AND YOUTH	NATIONAL MENTORING PROGRAM 9 TRAINING AND TECHNICAL ASSISTANCE (NMP 9 TTA)
585	\$115,587	BAY MILLS COMMUNITY COLLEGE	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	HEMP TRIBAL RESEARCH INITIATIVE FOR MICHIGAN (HEMP TRIM)
586	\$18,000	ORGANIC VALLEY	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	IDENTIFYING IMPROVED VEGETABLE VARIETIES FOR ORGANIC AND DIRECT MARKET GROWERS
587	\$86,616	NATIONAL INST OF FOOD & AGRICULTURE	Ivan, David	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	ANISHINAABE GARDENERS, FARMERS AND STEWARDS: PROMOTING INTERGENERATIONAL HEALTH & WELL-BEING THROUGH INTEGRATED FOOD SYSTEMS AND NATURAL RESOURCE EDUCATION
588	\$12,000	TCF FOUNDATION	Martinez, Elizabeth	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FINANCIAL AND HOME OWNERSHIP EDUCATION
589	\$23,554	UNIVERSITY OF MINNESOTA	Nelson, Elliot	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	GREAT LAKES SEA GRANT AQUACULTURE COLLABORATIVE

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
590	\$55,281	PURDUE UNIV	Schroeder, Brandon	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	EXTENDING IMPACT OF U.S. EPA'S GREAT LAKES NATIONAL PROGRAM OFFICE USING SEA GRANT OUTREACH CAPACITY
591	\$12,319	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MSG EXTENSION (OMNIBUS)
592	\$80,000	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FY 2020 COVID-19 RELATE RAPID RESPONSE FOR FISH PRODUCERS AND CHARTER FISHING INDUSTRIES
593	\$44,000	MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY	Weber, Robert	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	2020-2021 HOUSING EDUCATION PROGRAM (HEP)
594	\$41,000	MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY	Weber, Robert	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	HOUSING EDUCATION PROGRAM
595	\$8,205	CHERRY INDUSTRY ADMINISTRATION BOARD	Woods, Mollie	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	ASSIST CHERRY INDUSTRY WITH EXECUTIVE DIRECTOR SEARCH
596	\$114,044	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOD PREVENTION
597	\$8,000,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	East, Deanna	EXTENSION HEALTH AND NUTRITION	SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM
598	\$554,861	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	East, Deanna	EXTENSION HEALTH AND NUTRITION	SNAP OUTREACH
599	\$500,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Eschbach, Cheryl	EXTENSION HEALTH AND NUTRITION	LEGACY OF THE LAND: SUPPORTING MICHIGAN'S FARMERS
600	\$17,159	CLEMSON UNIV	Galdamez, Imelda	EXTENSION HEALTH AND NUTRITION	FACT-CIN: EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM - WEBNEERS
601	\$69,775	BOWLING GREEN STATE UNIVERSITY	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	COHH3 - REVISION
602	\$10,000	MICHIGAN ANIMAL HEALTH FOUNDATION	Benjamin, Madonna	LARGE ANIMAL CLINICAL SCIENCES MSUE	THE CASSANDRA METAPHOR: TRAINING FOR MICHIGAN'S FIELD PARTNERS IN ENHANCED BIOSECURITY AND PREPAREDNESS OF FOREIGN ANIMAL DISEASE.

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
603	\$50,000	US DEPT OF AGRICULTURE	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	MODIFICATION 2 TO PD 33335/RC108810: SURVEY, INVENTORY, AND MONITOR PLANTS, ANIMALS, AND ECOSYSTEMS ON THE HIAWATHA NATIONAL FOREST 2018-2023
604	\$461,928	US FISH & WILDLIFE SERVICE	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	PRAIRIE SPECIES CONSERVATION, HABITAT MANAGEMENT, AND CAPTIVE REARING-2
605	\$8,571	THE NATURE CONSERVANCY	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	TNC-OH BLAZINGSTAR BORER MOTH PROJECT - M0252
606	\$109,436	MICHIGAN DEPT OF TRANSPORTATION	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	MDOT RARE PLANT SURVEYS 2020
607	\$29,000	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	FORT CUSTER AQUATIC VEGETATION SURVEYS
608	\$58,744	US FISH & WILDLIFE SERVICE	Rowe, Logan	NATURAL FEATURES INVENTORY MSUE	DIRECTED GLRI ANNOUNCEMENT MNFI MSU NATIVE BEE ASSESSMENT
609	\$22,000	PICKLE PACKERS INTL INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	MONITORING THE DOWNY MILDEW PATHOGEN FOR RESISTANCE TO FUNGICIDES USING FIELD AND MOLECULAR TOOLS
610	\$11,650	PICKLE PACKERS INTL INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	MONITORING THE DOWNY MILDEW PATHOGEN FOR RESISTANCE TO FUNGICIDES USING FIELD AND MOLECULAR TOOLS
611	\$20,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Beyea, Wayne	SCHL OF PLANNING,DESIGN&CNST-MSUE	CLIMATE AND HEALTH COLLABORATION
RESEARCH AND INNOVATION					
612	\$34,939	VARIOUS INDUSTRIES	Hasemann, Charles	MSU INNOVATION CENTER	FEE FOR SERVICE - INDUSTRY
613	\$16,019	UNIVERSITY OF MICHIGAN	Hasemann, Charles	MSU INNOVATION CENTER	MICHIGAN CORPORATE RELATIONS NETWORK (MCRN) 6.0
614	\$350,000	MICHIGAN ECONOMIC DEVELOPMENT CORP	Gage, Douglas	RESEARCH AND INNOVATION SVP	MICHIGAN STATE UNIVERSITY MTRAC SEPT,2020 AUG,2021
VICE PRES FOR STUDENT AFFAIRS SERVICES					
615	\$376,584	US DEPT OF EDUCATION	Maybank, Denise	STUDENT AFFAIRS SERVICES VICE PRES	CHILD CARE ACCESS MEANS PARENTS IN SCHOOLS (CCAMPIS) MSU SPARTAN KIDS CHILD CARE SUPPORT PROGRAM

Gift, Grant and Contract Report
Board of Trustees
December 2020

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
616	\$405,451	MICHIGAN COLLEGE ACCESS NETWORK	Maybank, Denise	STUDENT AFFAIRS SERVICES VICE PRES	MCAN (MICHIGAN COLLEGE ACCESS NETWORK) 2020-21
GRADUATE SCHOOL DEAN					
617	\$33,251	BOSTON UNIV	Campa, Henry	GRADUATE SCHOOL DEAN	POSTDOCTORAL PATHWAYS - BROADENING ACCESS TO CAREER ADVANCEMENT
UNIVERSITY ADVANCEMENT					
618	\$13,031,348	VARIOUS DONORS - ADVANCEMENT	Heil, Marti	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD 07/01/2020 TO 09/30/2020
ADMINISTRATION					
619	\$1,749,631	VARIOUS DONORS	Woo, Melissa	MSU FOUNDATION	GIFT/GRANT TRANSFERS
INFRASTRUCTURE PLANNING AND FACILITIES					
620	\$150,538	GREAT LAKES COMMISSION	LeFevre, John	IPF PLANNING DESIGN AND CONSTRUCTION	MICHIGAN STATE UNIVERSITY RIVERBANK RESTORATION PHASE II
FINANCE					
621	\$32,202,500	STATE OF MICHIGAN	Haas, Mark	CONTROLLER	CARES ACT FUNDING FROM THE STATE OF MICHIGAN (COVID-19)
622	\$5,782,301	VARIOUS GRANTORS	Pedawi, Evonne	SPONSORED PROGRAMS ADMIN CGA POSTAWARD	FEE FOR SERVICE - OTHER
GENERAL UNIVERSITY ITEMS					
623	\$897,275	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	CENTER FOR SURVIVORS	FY 2021 CVS-2021 - VOCA CRIME VICTIM ASSISTANCE
624	\$831,412	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	CENTER FOR SURVIVORS	FY 2021 SASRV-2021 - SEXUAL ASSAULT VICTIM SERVICES - 2021
MICHIGAN STATE UNIVERSITY COLLEGE OF LAW					
625	\$40,000	US DEPT OF TREASURY	Wease, Joshua	COLL OF LAW CLINICS, CENTERS, INSTITUTES	LOW INCOME TAXPAYER CLINIC
VARIOUS					
626	\$265,493	VARIOUS	Various	Various	124 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION

**Gift, Grant and Contract Report
Board of Trustees
December 2020**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
	\$191,298,039	Total December 2020 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
December 18, 2020

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Rare books & portfolio collection 1975 items	Jack Davis	Libraries	\$608,121.00	Research in MSU Libraries Special Collections
2	Reconstruction of football field	Brian Storm	Intercollegiate Athletics/ Spartan Fund	\$500,000.00	Reconstruction of football field
3	New furniture & office equipment	Enwork David Powel	Eli Broad College of Business	\$261,117.00	New furniture & office equipment for Eppley Renovation
4	Oxford Nanopore PromethION 24 Sequencer BA10001407	Howard Hughes Medical Institute	Research Technology Support Facility	\$257,573.33	Direct benefit to RTSF Genomics Core Facility and its charitable mission
5	Various office equipment for the Grand Rapids Research Center	MarxModa	CHM Grand Rapids Research Center	\$100,000.00	Operations of the Grand Rapids Research Center
6	Six BND 13" MacBook Pro Applecure+ for Schools, six 10.2" iPad Wi-Fi 128GB & related accessories	Apple	Associate Provost for Teaching, Learning, & Technology	\$12,418.65	Apple iOS Design Lab and summer coding programing support in MSU Detroit initiatives
7	Trial Gardens – Acer R Sun Valley	The Cottage Gardens Inc.	Horticulture	\$5,199.84	Beautification of the MSU Horticultural Gardens

8-11	Various	Various	Various	\$5,813.40	<p>4 Consolidated non-cash gifts for individual values less than \$5,000</p> <p>Details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2 East Lansing, MI</p>
			TOTAL	\$1,750,243.22	