

**MICHIGAN STATE
UNIVERSITY**

August 16, 2019



MEMORANDUM

TO: Members of the Board of Trustees

FROM: Stephen Hsu, Senior Vice President

A handwritten signature in dark ink, appearing to be "Stephen Hsu", written over the printed name.

SUBJECT: Gift, Grant and Contract Report

RECOMMENDATION: That the Board of Trustees approve the attached Gift, Grant and Contract Report for the period of May 18, 2019 through August 5, 2019. The report is a compilation of 729 Gifts, Grants and Contracts plus 87 Consignment/Non-Cash Gifts, with a total value of \$158,278,390.



Office of the
**SENIOR VICE
PRESIDENT FOR
RESEARCH AND
INNOVATION**

Stephen Hsu
Senior Vice President

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FY 2019-20 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$156,054,937 |
| b) Gifts, Grants and Contracts plus Consignments: | \$158,278,390 |

(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.

Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 09/06/2019

Current Period: May 18, 2019 - Aug 5, 2019

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$76,587,274	\$76,587,274	83.7%
State of Michigan	\$1,181,220	\$1,181,220	1.3%
Other	\$5,246,490	\$5,246,490	5.7%
Industry/CO	\$2,626,781	\$2,626,781	2.9%
Foundation	\$5,175,247	\$5,175,247	5.7%
Association	\$714,368	\$714,368	0.8%
Research - Total	\$91,531,380	\$91,531,380	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$14,458,157	\$14,458,157	22.4%
State of Michigan	\$852,008	\$852,008	1.3%
Other	\$11,172,996	\$11,172,996	17.3%
Industry/CO	\$2,292,843	\$2,292,843	3.6%
Foundation	\$4,904,813	\$4,904,813	7.6%
Association	\$55,000	\$55,000	0.1%
Various Donors - Advancement	\$30,787,741	\$30,787,741	47.7%
Non-Research - Total	\$64,523,557	\$64,523,557	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$91,045,431	\$91,045,431	58.3%
State of Michigan	\$2,033,227	\$2,033,227	1.3%
Other	\$16,419,486	\$16,419,486	10.5%
Industry/CO	\$4,919,624	\$4,919,624	3.2%
Foundation	\$10,080,060	\$10,080,060	6.5%
Association	\$769,368	\$769,368	0.5%
Various Donors - Advancement	\$30,787,741	\$30,787,741	19.7%
TOTAL	\$156,054,937	\$156,054,937	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	302	302	56.2%
State of Michigan	13	13	2.4%
Other	105	105	19.6%
Industry/CO	59	59	11.0%
Foundation	20	20	3.7%
Association	38	38	7.1%
Research - Total	537	537	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	70	70	36.5%
State of Michigan	12	12	6.2%
Other	22	22	11.5%
Industry/CO	59	59	30.7%
Foundation	25	25	13.0%
Association	3	3	1.6%
Various Donors - Advancement	1	1	0.5%
Non-Research - Total	192	192	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	372	372	51.0%
State of Michigan	25	25	3.4%
Other	127	127	17.4%
Industry/CO	118	118	16.2%
Foundation	45	45	6.2%
Association	41	41	5.6%
Various Donors - Advancement	1	1	0.1%
TOTAL	729	729	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 09/06/2019

Current Period: May 18, 2019 - Aug 5, 2019

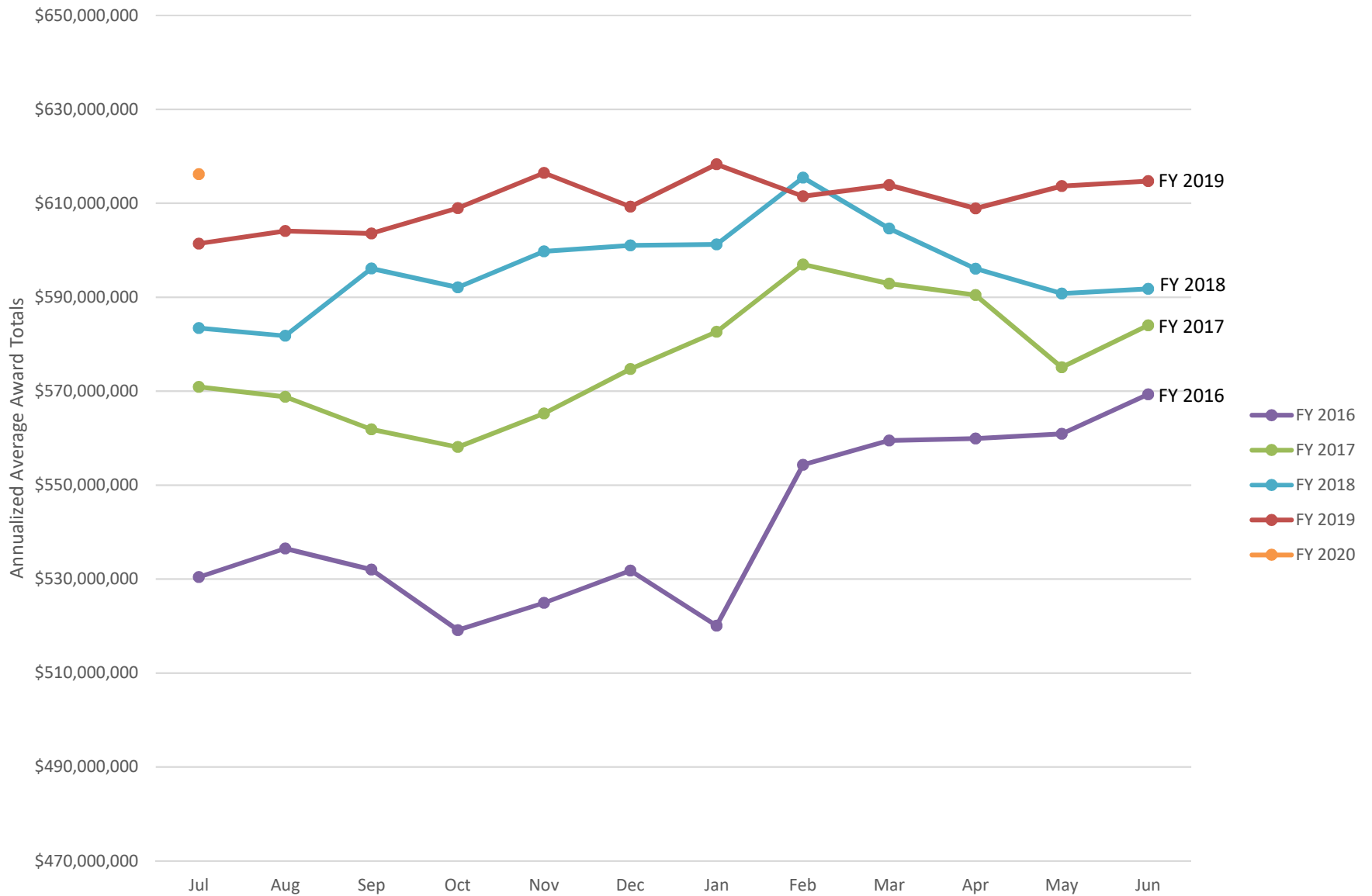
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	106,269,672	\$76,587,274	-27.9%
State of Michigan	938,315	\$1,181,220	25.9%
Other	2,962,040	\$5,246,490	77.1%
Industry/CO	1,342,866	\$2,626,781	95.6%
Foundation	4,440,744	\$5,175,247	16.5%
Association	551,618	\$714,368	29.5%
Research - Total	116,505,254	\$91,531,380	-21.4%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	6,743,642	\$14,458,157	114.4%
State of Michigan	711,504	\$852,008	19.7%
Other	4,196,846	\$11,172,996	166.2%
Industry/CO	879,221	\$2,292,843	160.8%
Foundation	1,072,939	\$4,904,813	357.1%
Association	240,422	\$55,000	-77.1%
Various Donors - Advancement	24,216,071	\$30,787,741	27.1%
Non-Research - Total	38,060,644	\$64,523,557	69.5%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	113,013,313	\$91,045,431	-19.4%
State of Michigan	1,649,819	\$2,033,227	23.2%
Other	7,158,887	\$16,419,486	129.4%
Industry/CO	2,222,086	\$4,919,624	121.4%
Foundation	5,513,683	\$10,080,060	82.8%
Association	792,040	\$769,368	-2.9%
Various Donors - Advancement	24,216,071	\$30,787,741	27.1%
TOTAL	154,565,899	\$156,054,937	1.0%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	277	302	9.0%
State of Michigan	11	13	18.2%
Other	95	105	10.5%
Industry/CO	80	59	-26.2%
Foundation	26	20	-23.1%
Association	28	38	35.7%
Research - Total	517	537	3.9%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	44	70	59.1%
State of Michigan	9	12	33.3%
Other	43	22	-48.8%
Industry/CO	26	59	126.9%
Foundation	19	25	31.6%
Association	8	3	-62.5%
Various Donors - Advancement	1	1	0.0%
Non-Research - Total	150	192	28.0%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	321	372	15.9%
State of Michigan	20	25	25.0%
Other	138	127	-8.0%
Industry/CO	106	118	11.3%
Foundation	45	45	0.0%
Association	36	41	13.9%
Various Donors - Advancement	1	1	0.0%
TOTAL	667	729	9.3%

Michigan State University 3 Year Annualized Average Awards



*Award dates based on calendar months (varies from Trustee cycle)

Gift, Grant and Contract Report Board of Trustees September 2019

	Amount	Sponsor	Director	Unit	Purpose
	COLLEGE OF AGRICULTURE AND NAT RESOURCES				
1	\$20,000	SOUTH CAROLINA STATE UNIV	Awokuse, Titus	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	THE IMPACT OF INTERNATIONAL TRADE POLICY ON GLOBAL FOOD SECURITY AND SOUTH CAROLINA AGRICULTURE.
2	\$73,786	FOOD MARKETING INST	Caputo, Vincenzina	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	“WILL CONSUMERS PURCHASE GENE-EDITED FOODS? A NATIONWIDE SURVEY ON US CONSUMER BELIEFS, KNOWLEDGE, UNDERSTANDING AND WILLINGNESS TO PAY FOR GENE-EDITED FOODS UNDER DIFFERENT INFORMATION TREATMENTS”
3	\$2,200,000	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
4	\$116,592	AGRICULTURE & FOOD RESEARCH INITIATIVE	Corbett, Ryan	ANIMAL SCIENCE DEPARTMENT ANR	ASSESSMENT OF TISSUE-SPECIFIC AND DEVELOPMENTAL VARIATION IN DNA METHYLATION TO ENHANCE DISCOVERY OF REGULATORY ELEMENTS IN THE PIG GENOME
5	\$5,500	MADDIES FUND	Haenn, Margaret	ANIMAL SCIENCE DEPARTMENT ANR	EVALUATION OF THE EFFECTS OF ALPHA CASOZEPINE ON DOGS EXHIBITING FEAR, ANXIETY, AND STRESS IN THE SHELTER SETTING
6	\$150,000	MARCH OF DIMES FOUNDATION	Hoffmann, Hanne	ANIMAL SCIENCE DEPARTMENT ANR	DECIPHERING THE ROLE OF MELATONIN IN THE REGULATION OF UTERINE FUNCTION
7	\$248,149	NATIONAL INST OF HEALTH	Hoffmann, Hanne	ANIMAL SCIENCE DEPARTMENT ANR	THE ROLE OF THE HOMEOPROTEIN VAX1 IN FERTILITY AND CIRCADIAN RHYTHM
8	\$96,584	FOREIGN AGRICULTURAL SERVICE	Joshi, Nanda	ANIMAL SCIENCE DEPARTMENT ANR	COCHRAN FELLOWSHIP PROGRAM – KENYA, UGANDA, TANZANIA, RWANDA, AND MALAWI ANIMAL FEED INGREDIENTS
9	\$29,731	UNIV OF KANSAS MEDICAL CENTER RESEARCH INST INC	Latham, Keith	ANIMAL SCIENCE DEPARTMENT ANR	MITOCHONDRIAL RNA DEFENSE PATHWAYS IN THE OOCYTE
10	\$124,000	WASHINGTON UNIV IN ST LOUIS	Latham, Keith	ANIMAL SCIENCE DEPARTMENT ANR	MATERNAL OBESITY AND CARDIOMETABOLIC HEALTH IN THE OFFSPRING
11	\$5,500	MADDIES FUND	McDowell, Makenzie	ANIMAL SCIENCE DEPARTMENT ANR	EVALUATION OF THE EFFECTS OF ALPHA CASOZEPINE ON CATS EXHIBITING FEAR, ANXIETY, AND STRESS IN THE SHELTER SETTING
12	\$40,000	JONES FAMILY FOUNDATION	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT ANR	RESEARCH GIFT
13	\$28,854	ARIZONA STATE UNIV	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT ANR	ADAPTIVE MULTI-PADDOCK (AMP) GRAZING RESEARCH PROPOSAL
14	\$228,650	ARIZONA STATE UNIV	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT ANR	ADAPTIVE MULTI-PADDOCK (AMP) GRAZING RESEARCH MODULE 2

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
15	\$32,469	MINK VETERINARY CONSULTING & RESEARCH SERVICE LTD	Taxis, Tasia	ANIMAL SCIENCE DEPARTMENT ANR	MINK ADV FEEDING TRIAL
16	\$1,000,000	COUNCIL ON DAIRY CATTLE BREEDING	Vandehaar, Michael	ANIMAL SCIENCE DEPARTMENT ANR	IMPROVING DAIRY FEED EFFICIENCY AND PROFITABILITY BY IMPACTING FARMER'S BREEDING DECISIONS
17	\$800,000	FOUNDATION FOR FOOD & AGRICULTURE RESEARCH	Vandehaar, Michael	ANIMAL SCIENCE DEPARTMENT ANR	IMPROVING DAIRY FEED EFFICIENCY, SUSTAINABILITY, AND PROFITABILITY BY IMPACTING FARMER'S BREEDING AND CULLING DECISIONS
18	\$61,047	VARIOUS INDUSTRIES	Kirk, Dana	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	FEE FOR SERVICE - DANA KIRK
19	\$67,486	US DEPT OF DEFENSE	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	BLACK WATER TREATMENT TESTING
20	\$1,000,000	NATIONAL INST OF FOOD & AGRICULTURE	Marks, Bradley	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	ENHANCING LOW-MOISTURE FOOD SAFETY BY IMPROVING DEVELOPMENT AND IMPLEMENTATION OF PASTEURIZATION TECHNOLOGIES
21	\$39,244	FOUNDATION FOR MEAT & POULTRY RESEARCH & EDUCATION	Marks, Bradley	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	EFFECTS OF PRODUCT MOISTURE AND PROCESS HUMIDITY ON PATHOGEN LETHALITY DURING CONTINUOUS COOKING OF MEAT AND POULTRY PRODUCTS
22	\$36,515	GERBER NESTLE	Safferman, Steven	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	FOOD PROCESSING WASTEWATER IRRIGATION FIELD MONITORING AND OPTIMIZATION
23	\$32,876	CONSUMERS ENERGY	Surbrook, Truman	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	2019 SUPPORT OF ACTIVITIES OF THE MICHIGAN AGRICULTURAL ENERGY COUNCIL
24	\$14,071	MICHIGAN ELECTRIC COOPERATIVE ASSOC	Surbrook, Truman	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	2019 SUPPORT OF ACTIVITIES OF THE MICHIGAN AGRICULTURAL ENERGY COUNCIL
25	\$92,335	US GEOLOGICAL SURVEY	Bartholic, Jon	DEPARTMENT OF COMMUNITY SUSTAINABILITY	FY 2016 THE STATE WATER RESOURCES RESEARCH INSTITUTE PROGRAM- USGS 104(B): DEVELOPING AND ENHANCING SUSTAINABLE WATER USE OF NATURAL AND AGRICULTURAL SYSTEMS
26	\$13,845	OHIO STATE UNIV	Bessette, Douglas	DEPARTMENT OF COMMUNITY SUSTAINABILITY	QUANTIFYING AND PREDICTING THE EFFECTS OF ECOLOGICAL WEED MANAGEMENT STRATEGIES ON ORGANIC AGROECO SYSTEMS TO INFORM FARMER DECISION MAKING

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
27	\$12,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Besette, Douglas	DEPARTMENT OF COMMUNITY SUSTAINABILITY	IDENTIFYING MICHIGAN RESIDENTS' VALUES, CONCERNS AND RENEWABLE ENERGY DEVELOPMENT OBJECTIVES
28	\$144,725	NATIONAL INST OF FOOD & AGRICULTURE	McKim, Aaron	DEPARTMENT OF COMMUNITY SUSTAINABILITY	AGRICULTURE, FOOD, AND NATURAL RESOURCES EDUCATOR SKILL AND KNOWLEDGE IMMERSION TO LEAD LEARNING SUCCESS (AFNRE-SKILLS)
29	\$524,211	KRESGE FOUNDATION	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	KRESGE
30	\$35,000	COLLEGE OF MENOMINEE NATION	Whyte, Kyle	DEPARTMENT OF COMMUNITY SUSTAINABILITY	ADVANCING GRADUATE STUDENT EXPERIENCE THROUGH CURRICULUM DEVELOPMENT, APPLICATION AND EVALUATION ON SUSTAINABILITY AND CLIMATE CHANGE
31	\$60,000	MICHIGAN DEPT OF EDUCATION	Wyrick, David	DEPARTMENT OF COMMUNITY SUSTAINABILITY	2019/20 CTSO: MICHIGAN FFA
32	\$2,499,999	NATIONAL SCIENCE FOUNDATION	Benbow, Mark	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NOVEL WEAPON EVOLUTION IN MYCOBACTERIAL PATHOGENESIS, DISPERSAL AND ECOLOGICAL PERSISTENCE.
33	\$155,807	NATIONAL INST OF FOOD & AGRICULTURE	Glassmire, Andrea	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ENHANCING BIOLOGICAL CONTROL IN TOMATO PLANTS USING ODOR DIVERSITY
34	\$164,994	NATIONAL INST OF FOOD & AGRICULTURE	Graham, Kelsey	ENTOMOLOGY AGRICULTURE AND NATURAL RES	POLLINATOR PLANTINGS: OASIS OR PESTICIDE TRAP?
35	\$48,000	NATIONAL RENEWABLE ENERGY LAB	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BIOPESTICIDES FROM CATALYTIC FAST PYROLYSIS OILS
36	\$9,000	MICHIGAN CHERRY COMMITTEE	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	IDENTIFYING EFFICIENT ATTRACTANTS FOR WINTER MORPH SPOTTED WING DROSOPHILA
37	\$49,919	FOREIGN AGRICULTURAL SERVICE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EXPLORING SEMIOCHEMICALS FOR THE CONTROL OF FABA BEAN STEM BORER (LIXUS ALGIRUS) ON FABA BEAN CROP IN MOROCCO
38	\$22,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGING BMSB TO MAINTAIN FRUIT QUALITY AND PROFITABILITY
39	\$20,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGEMENT OF CODLING MOTH USING STERILE MOTH RELEASES

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
40	\$39,800	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESEARCH ON EXOTIC POME AND STONE FRUIT PESTS IN MICHIGAN
41	\$125,000	WASHINGTON TREE FRUIT RESEARCH COMMISSION	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	OPTIMIZATION OF RELEASE STRATEGIES FOR STERILE CODLING MOTH
42	\$19,000	MICHIGAN CHERRY COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MONITORING AND MANAGEMENT OF SPOTTED WING DROSOPHILA IN MICHIGAN CHERRIES
43	\$18,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PHEROMONE-BASED MATING DISRUPTION FOR MANAGING SAN JOSE SCALE
44	\$245,194	US Highbush BLUEBERRY COUNCIL	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BREAKING INSECT-RELATED TRADE BARRIERS FOR THE EASTERN USA BLUEBERRY INDUSTRY
45	\$20,130	FOREIGN AGRICULTURAL SERVICE	Jiang, Wayne	ENTOMOLOGY AGRICULTURE AND NATURAL RES	GLP LAB TRAININGS
46	\$231,140	NATIONAL INST OF FOOD & AGRICULTURE	Landis, Joy	ENTOMOLOGY AGRICULTURE AND NATURAL RES	INCREASING IPM ADOPTION THROUGH SCIENCE-BASED RESOURCES ADDRESSING THE CHANGING AND EMERGING NEEDS OF MICHIGAN GROWERS
47	\$26,772	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	IDENTIFYING EFFECTIVE TREATMENTS FOR SPOTTED LANTERNFLY CONTROL
48	\$48,700	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESEARCH ON EXOTIC FOREST PESTS IN HIGH RISK SITES IN MICHIGAN
49	\$91,465	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	IDENTIFYING EFFECTIVE TREATMENTS FOR SPOTTED LANTERNFLY CONTROL
50	\$8,000	ADAMA USA	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATION OF POTATO EARLY DIE COMPLEX MANAGEMENT USING CUSTOM COMPOST BLENDS AND NEMATICIDES
51	\$51,970	USDA FOREST SERVICE	Ravlin, Bill	ENTOMOLOGY AGRICULTURE AND NATURAL RES	STUDENT LABOR AND RESEARCH SERVICES FOR RESEARCH ON EMERALD ASH BORER BIOLOGICAL CONTROL AND EAB-RESISTANT ASH SPECIES

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
52	\$37,700	USDA FOREST SERVICE	Ravlin, Bill	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPING A BREEDING PROGRAM FOR ASH TREES RESISTANT TO EMERALD ASH BORER
53	\$144,965	RUTGERS UNIV	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PROTECTING POLLINATORS WITH ECONOMICALLY FEASIBLE AND ENVIRONMENTALLY SOUND ORNAMENTAL HORTICULTURE
54	\$112,603	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	FACILITATING SPREAD OF THE HOST-SPECIFIC FUNGAL PATHOGEN, OVAVESICULA POPILLIAE, FOR LONG-TERM SUPPRESSION OF JAPANESE BEETLE
55	\$8,316	BASF CORP	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BASF TESTING AGREEMENT DEV-I-2019-US-VA1-1.0
56	\$37,465	NORTH CAROLINA STATE UNIV	Szendrei, Zsofia	ENTOMOLOGY AGRICULTURE AND NATURAL RES	IMPROVING IPM IN COLE CROPS IN MICHIGAN
57	\$10,272	MICHIGAN APPLE COMMITTEE	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	REARING AND RELEASE OF A CLASSICAL BIOLOGICAL CONTROL AGENT, THE SAMURAI WASP AGAINST BROWN MARMORATED STINK BUGS.
58	\$14,234	CLARKE MOSQUITO CONTROL	Walker, Edward	ENTOMOLOGY AGRICULTURE AND NATURAL RES	CLARKE - MOSQUITO VIRUS TESTING
59	\$5,998	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
60	\$5,500	SYNGENTA INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SYNGENTA - TESTING INSECTICIDES FOR FRUIT IPM
61	\$1,832,486	NATIONAL INST OF FOOD & AGRICULTURE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NORTH CENTRAL REGION IR-4 MINOR CROP PEST MANAGEMENT
62	\$8,000	VALENT USA CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	VALENT
63	\$8,000	VALENT USA CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	VALENT
64	\$16,000	VALENT USA CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	VALENT

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
65	\$9,000	MICHIGAN CHERRY COMMITTEE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPMENT OF A SPOTTED WING DROSOPHILA CONTROL MODEL FOR MICHIGAN CHERRIES
66	\$5,500	SYNGENTA INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SYNGENTA - TESTING INSECTICIDES FOR FRUIT IPM
67	\$13,697	MICHIGAN APPLE COMMITTEE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TRUNK INJECTION CONTROL OF BLACK STEM BORER IN APPLES
68	\$22,000	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TEST COMMON PESTICIDES USED AGAINST APPLE MAGGOT, RHAGOLETIS POMONELLA VS GF120
69	\$224,200	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
70	\$16,000	GREAT LAKES FISHERIES COMMISSION	Bence, James	FISHERIES AND WILDLIFE	GLFC SUPPORT FOR QFC
71	\$33,381	GREAT LAKES FISHERIES COMMISSION	Bence, James	FISHERIES AND WILDLIFE	EVALUATING AGE- AND LENGTH-BASED MODELS FOR ASSESSING LAKE TROUT
72	\$150,000	US GEOLOGICAL SURVEY	Infante, Dana	FISHERIES AND WILDLIFE	AQUATIC GAP ANALYSIS PROGRAM: ENHANCING DATA AND APPROACHES OF THE NATION'S INLAND AND COAST AQUATIC ECOSYSTEMS
73	\$65,961	MICHIGAN DEPT OF NATURAL RESOURCES	Kramer, Daniel	FISHERIES AND WILDLIFE	PERM - DAN KRAMER - SOCIAL, ECONOMIC, AND POLICY ASPECTS OF WILDERNESS MANAGEMENT
74	\$137,400	MICHIGAN DEPT OF NATURAL RESOURCES	Latimore, Jo	FISHERIES AND WILDLIFE	RIPPLE II: EDUCATION ABOUT INVASIVES IN AQUARIUM AND POND TRADE
75	\$19,505	MONTANA STATE UNIV	Latimore, Jo	FISHERIES AND WILDLIFE	IDENTIFYING HIGH-RISK HYBRID EURASIAN WATERMILFOIL GENOTYPES TO IMPROVE CONTROL
76	\$45,000	USDA FOREST SERVICE	Latimore, Jo	FISHERIES AND WILDLIFE	MSU AIS EDUCATION PARTNERSHIP
77	\$113,400	GREAT LAKES FISHERIES COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	STRUCTURE AND FUNCTION OF NOVEL PHEROMONES FROM SEA LAMPREY MILT

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
78	\$79,933	GREAT LAKES FISHERIES COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	CHEMICAL ANALYSES OF SEA LAMPREY PHEROMONES AND LAMPRICIDES
79	\$51,497	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	FISHERIES AND WILDLIFE	PERM - FRANK LUPI - ECONOMIC ASPECTS OF WILDLIFE MANAGEMENT
80	\$149,229	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
81	\$64,441	UNIVERSITY OF MONTANA	Montgomery, Robert	FISHERIES AND WILDLIFE	SURVEILLANCE FOR THE WHITE-NOSE SYNDROME FUNGUS IN MULTIPLE MIDWEST PARKS
82	\$142,463	MICHIGAN DEPT OF NATURAL RESOURCES	Riley, Shawn	FISHERIES AND WILDLIFE	PERM: SHAWN RILEY - HUMAN DIMENSION CONSIDERATIONS IN WILDLIFE MANAGEMENT
83	\$28,575	MICHIGAN DEPT OF NATURAL RESOURCES	Robinson, Kelly	FISHERIES AND WILDLIFE	CONTINUED COORDINATION WORKSHOPS WITH GRASS CARP STRUCTURED DECISION MAKING (SDM) WORKING GROUP
84	\$77,658	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	ROLOFF ANNUAL PERM AGREEMENT
85	\$32,469	THE FOREST FOUNDATION	Roloff, Gary	FISHERIES AND WILDLIFE	FINE SCALE HABITAT USE BY FLYING SQUIRRELS AND DUSKY_FOOTED WOODRATS IN NORTHERN CALIFORNIA
86	\$68,183	BLACK & VEATCH	Rose, Joan	FISHERIES AND WILDLIFE	CITY OF TOLEDO BALLASTED FLOCCULATION PATHOGEN SAMPLING STUDY.
87	\$199,005	NATIONAL SCIENCE FOUNDATION	Soranno, Patricia	FISHERIES AND WILDLIFE	NSF IPA FOR DR. SORANNO
88	\$9,438	THE NATURE CONSERVANCY	Stott, Wendylee	FISHERIES AND WILDLIFE	SUBAWARD AGREEMENT BETWEEN TNC AND MSU IS TO FUND GENETIC TESTING ON FISH EGGS BY WENDYLEE STOTT/MSU FOR A STOCK ASSESSMENT PROJECT.
89	\$152,101	GREAT LAKES FISHERIES COMMISSION	Vandergoot, Christopher	FISHERIES AND WILDLIFE	GLFC PERM AGREEMENT FOR DR. CHRISTOPHER VANDERGOOT
90	\$26,530	MICHIGAN DEPT OF NATURAL RESOURCES	Warwick, Alexa	FISHERIES AND WILDLIFE	PERM: ALEXA WARWICK – ENGAGEMENT, OUTREACH, AND HUMAN DIMENSIONS IN WILDLIFE MANAGEMENT
91	\$74,719	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	INFLUENCE OF DEER HARVEST REGULATIONS ON ANTLERLESS HARVEST, ABUNDANCE, AND SEX AND AGE COMPOSITION: IMPLICATIONS FOR MANAGING DEER IN THE FACE OF CHRONIC WASTING DISEASE

Gift, Grant and Contract Report Board of Trustees September 2019

	Amount	Sponsor	Director	Unit	Purpose
92	\$8,737	HAL & JEAN GLASSEN MEMORIAL FOUNDATION	Williams, David	FISHERIES AND WILDLIFE	REINTRODUCING SHARP-TAILED GROUSE TO THE LOWER PENINSULA OF MICHIGAN
93	\$155,936	NATIONAL INST OF FOOD & AGRICULTURE	Beavers, Alyssa	FOOD SCIENCE AND HUM NUTRITION ANR	IMPACT OF GARDENING ON HUMAN GUT MICROBIOME AND MICROBIOTA ANTIBIOTIC RESISTANCE
94	\$15,000	FARM INPUT PROMOTIONS AFRICA LTD	Bello Bravo, Maria Julia	FOOD SCIENCE AND HUM NUTRITION ANR	INCREASING INCOME, FOOD AVAILABILITY AND SAFETY, THROUGH REDUCTION OF POST-HARVEST LOSSES USING DIATOMACEOUS EARTH AS A GRAIN STORAGE TECHNIQUE
95	\$31,000	SILENT SPRING INST	Carignan, Courtney	FOOD SCIENCE AND HUM NUTRITION ANR	ASSESSMENT OF PEDIATRIC IMMUNOTOXICITY, PUBLIC EDUCATION, AND CAPACITY-BUILDING IN COMMUNITIES IMPACTED BY PFAS-CONTAMINATED DRINKING WATER
96	\$441,120	NATIONAL INST OF HEALTH	Pestka, James	FOOD SCIENCE AND HUM NUTRITION ANR	DIETARY LIPIDS AND SILICA-TRIGGERED AUTOIMMUNITY
97	\$236,664	NATIONAL INST OF HEALTH	Strakovsky, Rita	FOOD SCIENCE AND HUM NUTRITION ANR	ENDOCRINE DISRUPTORS: MATERNAL ESTROGEN, METABOLISM AND FETAL FATTY ACID SUPPLY
98	\$35,836	NATIONAL INST OF HEALTH	Wierenga, Kate	FOOD SCIENCE AND HUM NUTRITION ANR	OMEGA-3 FATTY ACID SUPPRESSION OF SILICA-INDUCED INFLAMMASOME ACTIVATION IN A NOVEL ALVEOLAR MACROPHAGE MODEL
99	\$99,966	USDA FOREST SERVICE	Cooper, Lauren	FORESTRY	USFS EDUCATIONAL CONTENT DEVELOPMENT AND DELIVERY FROM THE MSU FOREST CARBON AND CLIMATE PROGRAM
100	\$48,197	NATIONAL PARK SERVICE	Finley, Andrew	FORESTRY	ASSESSING THE FACTORS AFFECTING FOREST CONDITION ALONG THE APPALACHIAN NATIONAL SCENIC TRAIL (APPA) AND NEIGHBORING LANDS
101	\$70,000	USDA FOREST SERVICE	Macfarlane, David	FORESTRY	DEVELOPING NEW NATIONAL TREE BIOMASS MODELS FOR FIA IN THE GREAT LAKES REGION
102	\$150,409	CLEMSON UNIV	Nejad, Mojgan	FORESTRY	LIGNIN FRACTIONATION AND VALORIZATION: FOCUSING ON BOTH VALUE AND QUALITY
103	\$21,006	NATIONAL SCIENCE FOUNDATION	Zarnetske, Phoebe	FORESTRY	COLLABORATIVE PROPOSAL: WORKSHOP ON THE ECOLOGICAL IMPACTS OF SOLAR RADIATION MANAGEMENT GEOENGINEERING; FEBRUARY , 2020; PORT JEFFERSON, NY; OCTOBER, 2020, MINNEAPOLIS, MN
104	\$536,813	NATIONAL SCIENCE FOUNDATION	Zarnetske, Phoebe	FORESTRY	COLLABORATIVE PROPOSAL: MRA: CONNECTING LOCAL, REGIONAL, AND CONTINENTAL SCALE DRIVERS TO BIODIVERSITY ACROSS NEON THROUGH THE LENS OF INTRASPECIFIC TRAIT VARIATION AND DISTURBANCE
105	\$96,105	NATIONAL SCIENCE FOUNDATION	Barry, Cornelius	HORTICULTURE ANR	COLLABORATIVE RESEARCH: A SYSTEMS APPROACH TOWARD UNDERSTANDING THE DIVERSIFICATION OF TROPANE AND GRANATANE ALKALOID BIOSYNTHESIS
106	\$176,114	SAINT LOUIS UNIV	Chitwood, Daniel	HORTICULTURE ANR	RESEARCH-PGR: ADAPTING PERENNIAL CROPS FOR CLIMATE CHANGE: GRAFT TRANSMISSIBLE EFFECTS OF ROOTSTOCKS ON GRAPEVINE SHOOTS

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
107	\$10,000	VALENT BIOSCIENCES CORP	Cregg, Bert	HORTICULTURE ANR	UNRESTRICTED GIFT IN CHRISTMAS TREE RESEARCH.
108	\$176,779	MICHIGAN DEPT OF TRANSPORTATION	Cregg, Bert	HORTICULTURE ANR	RESEARCH ON SLOPE RESTORATION ON URBAN FREEWAYS
109	\$8,000	CHRISTMAS TREE PROMOTION BOARD	Cregg, Bert	HORTICULTURE ANR	COFIRGE: THE COLLABORATIVE FIR GERMPLASM EVALUATION - REGIONAL ADAPTABILITY AND QUALITY OF TURKISH AND TROJAN FIRS PROJECT
110	\$8,000	MICHIGAN CHERRY COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	PGR STRATEGIES TO ABCISE TART CHERRY FLOWERS AND FRUIT
111	\$27,780	MICHIGAN TREE FRUIT COMMISSION	Einhorn, Todd	HORTICULTURE ANR	NEW APPLE ROOTSTOCK EVALUATION TRIALS
112	\$38,700	HORTICULTURAL RESEARCH INST	Fernandez, Rodney	HORTICULTURE ANR	RFID AND BEYOND: USING RFID, DRONES AND BLE TO IMPROVE PLANT INVENTORY MANAGEMENT
113	\$22,979	CLEMSON UNIV	Iezzoni, Amy	HORTICULTURE ANR	SHORT AND LONG-TERM SOLUTIONS FOR ARMILLARIA ROOT ROT IN PRUNUS
114	\$6,367	OREGON SWEET CHERRY COMMISSION	Iezzoni, Amy	HORTICULTURE ANR	UNRESTRICTED GIFT IN TART CHERRY RESEARCH
115	\$18,000	MICHIGAN CHERRY COMMITTEE	Iezzoni, Amy	HORTICULTURE ANR	BREEDING HIGH QUALITY DISEASE RESISTANT TART CHERRY VARIETIES AND ROOTSTOCKS
116	\$8,000	MICHIGAN CHERRY COMMITTEE	Lang, Gregory	HORTICULTURE ANR	TART AND SWEET CHERRY ORCHARD SYSTEMS THAT OPTIMIZE LABOR EFFICIENCY, PRODUCTION CONSISTENCY, AND FRUIT QUALITY
117	\$10,000	MICHIGAN CHERRY COMMITTEE	Lang, Gregory	HORTICULTURE ANR	BIOCONTROL AGENTS FOR MANAGING BACTERIAL CANCER IN MICHIGAN CHERRY ORCHARDS
118	\$22,680	ICL FERTILIZERS	Lopez, Roberto	HORTICULTURE ANR	EFFECT OF SELECTED CONTROLLED-RELEASE FERTILIZERS ON GROWTH OF GARDEN MUMS AND POINSETTIA IN THE GREAT LAKES REGION, USA
119	\$14,490	ICL FERTILIZERS	Lopez, Roberto	HORTICULTURE ANR	EFFECT OF SELECTED CONTROLLED-RELEASE FERTILIZERS ON GROWTH OF CONTAINER HERBS
120	\$108,096	LAND O LAKES INC	Melakeberhan, Haddish	HORTICULTURE ANR	FOOD FOR PROGRESS - MALAWI
121	\$41,666	UNIVERSITY OF HAWAII	Melakeberhan, Haddish	HORTICULTURE ANR	INTEGRATED AND SCALABLE NEMATODE-SOIL HEALTH MANAGEMENT FOR SMALLHOLDER POTATO FARMING SYSTEMS
122	\$37,364	MICHIGAN CRAFT BEVERAGE COUNCIL	Sabbatini, Paolo	HORTICULTURE ANR	GRAPEVINE COLD HARDINESS: INTEGRATING ENVIRONMENTAL CUES AND VINE PHYSIOLOGY
123	\$34,376	MICHIGAN CRAFT BEVERAGE COUNCIL	Vannocker, Steven	HORTICULTURE ANR	MICHIGAN PURERED: DEVELOPMENT OF RED-JUICED APPLE CULTIVARS FOR MICHIGAN HARD CIDER PRODUCTION
124	\$6,000	FMC CORP	Zandstra, Bernard	HORTICULTURE ANR	UNRESTRICTED GIFT IN WEED MANAGEMENT RESEARCH

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
125	\$6,000	VAN DRUNEN FARMS	Zandstra, Bernard	HORTICULTURE ANR	UNRESTRICTED GIFT IN WEED SCIENCE RESEARCH
126	\$49,340	NATIONAL SCIENCE FOUNDATION	Poitra, Christie	NATIVE AMERICAN INSTITUTE	HONORING THE WHOLE STUDENT: DEVELOPING GOOD PRACTICES FOR SUPPORTING THE INTERSECTIONALITY OF DIVERSE UNDERGRADUATE STUDENTS IN GEOSCIENCE
127	\$25,000	HOWARD HUGHES MEDICAL INST	Tyler, Quentin	OFF OF DIVERSITY EQUITY AND INCLUSION	DEVELOPMENT FOR INCLUSIVE EXCELLENCE FOR MICHIGAN STATE COLLEGE OF AGRICULTURE AND NATURAL RESOURCES
128	\$35,000	MICHIGAN SUGARBEET ADVANCEMENT	Bublitz, Daniel	PLANT SOIL AND MICROBIAL SCIENCES	FUNDING FOR SALARIES AND OPERATING EXPENSES - DANIEL BUBLITZ SUGERBEET PROGRAM
129	\$17,682	VARIOUS INDUSTRIES	Cassida, Kimberly	PLANT SOIL AND MICROBIAL SCIENCES	OLSON TESTING PROJECTS
130	\$29,670	VARIOUS INDUSTRIES	Cassida, Kimberly	PLANT SOIL AND MICROBIAL SCIENCES	CASSIDA PSM TESTING
131	\$39,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	BUILDING INFRASTRUCTURE IN HOPS AND BARLEY TO CONDUCT PLANT PATHOLOGY RESEARCH RELEVANT TO MICHIGAN'S BEER INDUSTRY
132	\$221,360	VARIOUS INDUSTRIES	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHILVERS PSM TESTING
133	\$40,510	VARIOUS INDUSTRIES	Cichy, Karen	PLANT SOIL AND MICROBIAL SCIENCES	POTATO TESTING
134	\$101,898	AGRICULTURAL RESEARCH SERVICE	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
135	\$238,112	NATIONAL SCIENCE FOUNDATION	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	IPA ASSIGNMENT
136	\$75,915	VARIOUS INDUSTRIES	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DOUCHES PSM TESTING
137	\$12,000	VARIOUS INDUSTRIES	Frank, Kevin	PLANT SOIL AND MICROBIAL SCIENCES	FRANK PSM TESTING
138	\$8,682	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, R	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
139	\$43,541	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, R	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
140	\$157,630	VARIOUS INDUSTRIES	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	HAUSBECK PSM TESTING

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
141	\$499,999	NATIONAL INST OF FOOD & AGRICULTURE	Kravchenko, Alexandra	PLANT SOIL AND MICROBIAL SCIENCES	A NEW PERSPECTIVE FOR PLANT DIVERSITY AND CARBON SEQUESTRATION: INTERACTION BETWEEN PHYSICAL MICRO-ENVIRONMENTS AND MICROORGANISMS
142	\$624,995	NATIONAL SCIENCE FOUNDATION	Kravchenko, Alexandra	PLANT SOIL AND MICROBIAL SCIENCES	ROLE OF TRANSPORT PROCESSES IN FORMATION OF OPTIMAL MICROBIAL HABITATS AND THE ROOT-MICROBE-SOIL CARBON ACCRUAL CONTINUUM
143	\$5,506	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH TECHNICIAN
144	\$10,800	VARIOUS INDUSTRIES	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	LONG POTATO TESTING
145	\$25,275	BEET SUGAR DEVELOPMENT FOUNDATION	McGrath, J	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS TO COVER GRADUATE STUDENT PAY AND EQUIPMENT
146	\$10,050	VARIOUS INDUSTRIES	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	MEREWITZ PSM TESTING
147	\$125,250	VARIOUS INDUSTRIES	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MILES PSM TESTING
148	\$49,750	MICHIGAN CRAFT BEVERAGE COUNCIL	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN GRAPE EXTENSION PROGRAMS TO SUPPORT VINEYARD SUSTAINABILITY AND FRUIT QUALITY
149	\$29,810	VARIOUS INDUSTRIES	Nikolai, Thomas	PLANT SOIL AND MICROBIAL SCIENCES	NIKOLAI PSM TESTING
150	\$101,000	US DEPT OF AGRICULTURE	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF SCAB RESISTANT WHEAT VARIETIES FOR MICHIGAN
151	\$28,296	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	LATE MATURITY AMYLAE AND PREHARVEST SPROUTING IN MICHIGAN WINTER WHEAT
152	\$20,000	VARIOUS INDUSTRIES	Penner, Donald	PLANT SOIL AND MICROBIAL SCIENCES	PENNER PSM TESTING
153	\$50,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Pennington, Dennis	PLANT SOIL AND MICROBIAL SCIENCES	VARIETY SELECTION AND AGRONOMY PRACTICES FOR SOFT WINTER WHEAT MALTING
154	\$22,000	VARIOUS INDUSTRIES	Rogers, John	PLANT SOIL AND MICROBIAL SCIENCES	ROGERS PSM TESTING
155	\$14,430	VARIOUS INDUSTRIES	Rose, Joan	PLANT SOIL AND MICROBIAL SCIENCES	ROSE PSM TESTING
156	\$28,000	DOMINICAN UNIVERSITY OF CALIFORNIA	Sakalidis, Monique	PLANT SOIL AND MICROBIAL SCIENCES	SURVEY OF ORNAMENTAL AND NATIVE PLANT NURSERIES FOR PHYTOPHTHORAS

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
157	\$8,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	AGRONOMIC AND ECONOMIC CONSEQUENCES OF VARIABLE RATE SEEDING IN MICHIGAN CROPPING SYSTEMS
158	\$174,992	VARIOUS INDUSTRIES	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	SPRAGUE PSM TESTING
159	\$103,350	VARIOUS INDUSTRIES	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	STEINKE PSM TESTING
160	\$10,000	MICHIGAN CHERRY COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	ISOLATION AND ANALYSIS OF BACTERIOPHAGE TARGETING THE BACTERIAL CANER PATHOGEN PSEUDOMONAS SYRINGAE: POTENTIAL FOR BIOCONTROL
161	\$359,850	VARIOUS INDUSTRIES	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SUNDIN PSM TESTING
162	\$12,000	MICHIGAN CHERRY COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING SDHI FUNGICIDE SENSITIVITY OF THE CHERRY LEAF SPOT PATHOGEN BLUEMERIELLA JAAPII
163	\$25,599	MICHIGAN APPLE COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SHOOT BLIGHT MANAGEMENT WITH REDUCED RATES OF APOGEE, ACTIGARD AND COPPERS
164	\$49,819	FOREIGN AGRICULTURAL SERVICE	Thomashow, Michael	PLANT SOIL AND MICROBIAL SCIENCES	“GENETIC NETWORKS AND SIGNALING DURING ABIOTIC AND BIOTIC STRESS RESPONSES IN PLANTS”
165	\$63,300	VARIOUS INDUSTRIES	Vargas, Joseph	PLANT SOIL AND MICROBIAL SCIENCES	VARGAS PSM TESTING
166	\$18,750	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	OLASOY OIL: A NON-GMO HIGH OLEIC SOYBEAN OIL
167	\$5,670	VARIOUS INDUSTRIES	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	WANG TESTING PROJECTS
168	\$15,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	SCREENING AND DEVELOPMENT OF GERMPLASM WITH RESISTANCE TO SUDDEN DEATH SYNDROME AND SOYBEAN CYST NEMATODE
169	\$160,335	US DEPT OF AGRICULTURE	Wiersma, Andrew	PLANT SOIL AND MICROBIAL SCIENCES	ACCELERATED RESISTANCE GENE DISCOVERY IN COMMON BEAN
170	\$21,600	VARIOUS INDUSTRIES	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	WILLBUR PSM TESTING
171	\$150,000	US ARMY CORPS OF ENGINEERS	Cui, Yue	SCHOOL OF PLANNING DES CONSTRUCTION ANR	ALGORITHM FOR INVENTORY AND SPATIAL ANALYSIS IN NATURAL RESOURCES MANAGEMENT, INSTITUTE FOR WATER RESOURCES

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
172	\$99,934	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Asher, Aaron	WATER RESEARCH INSTITUTE ANR	SOIL SAMPLING AND EVALUATION IN SOUTH EAST MICHIGAN
COLLEGE OF ARTS AND LETTERS					
173	\$695,000	THE ANDREW W MELLON FOUNDATION	Long, Christopher	AL RESEARCH AND SCHOLARSHIP	HUMANE METRICS IN THE HUMANITIES AND SOCIAL SCIENCES (HUMETRICSHSS) – PHASE 2
174	\$2,500,000	THE ANDREW W MELLON FOUNDATION	Long, Christopher	AL RESEARCH AND SCHOLARSHIP	BTAA LESS COMMONLY TAUGHT LANGUAGES (LCTL) PARTNERSHIP: CYCLE 2
175	\$5,308	NEW JERSEY INST OF TECHNOLOGY	O'Rourke, Michael	AL RESEARCH AND SCHOLARSHIP	WORKSHOP ON ASSESSING ETHICS EDUCATION INTERVENTIONS IN SCIENCE AND ENGINEERING
176	\$77,083	INST OF INTL EDUCATION	Steider, Danielle	ENGLISH LANGUAGE CENTER	FULBRIGHT FOREIGN LANGUAGE TEACHING ASSISTANT ORIENTATION PROGRAM
177	\$65,165	UPPSALA UNIVERSITY	Whyte, Kyle	PHILOSOPHY	INDIGENOUS CLIMATE CHANGE STUDIES: INDIGENOUS EXPERTISE MEETS WESTERN TECHNOLOGICAL DESIGN AND INNOVATION
ELI BROAD COLLEGE OF BUSINESS					
178	\$138,058	NATIONAL SCIENCE FOUNDATION	Pentland, Brian	ACCOUNTING AND INFORMATION SYSTEMS	COLLABORATIVE RESEARCH: ANTECEDENTS OF COMPLEXITY IN HEALTHCARE ROUTINES
179	\$179,185	SAN BERNADINO COUNTY TRANSPORTATION AUTHORITY	Hoffrichter, Andreas	EXECUTIVE DEVELOPMENT PROGRAMS	ZERO OR LOW EMISSIONS MULTIPLE UNIT FEASIBILITY STUDY
180	\$304,000	US DEPT OF EDUCATION	Hult, Tomas	INTERNATIONAL BUSINESS CENTER	CENTER FOR INTERNATIONAL BUSINESS EDUCATION RESEARCH: STRATEGIC AND SUSTAINABLE VALUE CHAINS FOR INCREASED INTERNATIONAL COMPETITIVENESS
181	\$231,436	NATIONAL SCIENCE FOUNDATION	Chao, Georgia	MANAGEMENT	GEORGIA CHAO - NSF VISITING SCIENTIST
182	\$17,375	UNIVERSITY OF COLORADO	Johnson, Russell	MANAGEMENT	IMPLICIT MEASURES OF IMPLICIT LEADERSHIP THEORIES (ILTS)
COLLEGE OF COMMUNICATION ARTS SCIENCES					
183	\$91,578	NATIONAL SCIENCE FOUNDATION	Besley, John	ADVERTISING AND PUBLIC RELATIONS	COLLABORATIVE RESEARCH: EMBEDDING PUBLIC ENGAGEMENT WITH SCIENCE AT LONG-TERM ECOLOGICAL RESEARCH SITES
184	\$75,631	DETROIT PUBLIC TELEVISION	Rhodes, Nancy	ADVERTISING AND PUBLIC RELATIONS	MEDIA PSYCHOLOGICAL APPROACHES TO THE ASSESSMENT OF GREAT LAKES NOW AND PRE-SCHOOL UNIVERSITY

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
185	\$7,500	LATINO PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	VOCES SEASON 5
186	\$375,748	ROBERT WOOD JOHNSON FOUNDATION	Dearing, James	COMMUNICATION	SCALING UP COMMUNITY SOLUTIONS TO CLIMATE CHANGE
187	\$312,808	ANHEUSER BUSCH FOUNDATION	Martell, Dennis	COMMUNICATION ARTS AND SCIENCES DEAN	NATIONAL SOCIAL NORMS CENTER
188	\$156,158	NATIONAL INST OF HEALTH	Hampton Wray, Amanda	COMMUNICATIVE SCIENCES DISORDERS CAS	ATTENTIONAL CONTROL IN CHILDREN WHO STUTTER
189	\$10,855	INDIAN LAND TENURE FOUNDATION	LaPensee, Elizabeth	MEDIA AND INFORMATION	LESSONS OF FOURLAND GAME
190	\$193,750	NATIONAL INST OF HEALTH	Wyche, Susan	MEDIA AND INFORMATION	BUILDING CAPACITY IN HUMAN-CENTERED DESIGN: DEVELOPING A DIABETES MHEALTH APPLICATION FOR AND WITH KENYAN ADOLESCENTS
	COLLEGE OF EDUCATION				
191	\$500,000	CHARLES STEWART MOTT FOUNDATION	Beverly, Bryan	CED OUTREACH	COMPREHENSIVE SYSTEM FOR RAPID DISTRICT INTERVENTION FOR FLINT COMMUNITY SCHOOLS-YEAR 5
192	\$85,043	US DEPT OF EDUCATION	Fisher, Marisa	COUNSELING, EDUC PSYCH & SPEC EDUC	A LONGITUDINAL INVESTIGATION OF FRIENDSHIP AND BULLYING EXPERIENCES OF MIDDLE SCHOOL YOUTH WITH AND WITHOUT AUTISM SPECTRUM DISORDERS AND OTHER DISABILITIES
193	\$18,498	DREXEL UNIV	Plavnick, Joshua	COUNSELING, EDUC PSYCH & SPEC EDUC	PREVALENCE AND PROFILE OF TREATMENT NON-RESPONDERS IN AUTISM EARLY INTERVENTION
194	\$125,000	LOS ANGELES UNIFIED SCHOOL DISTRICT	Reimann, Christopher	CREATE FOR STEM	AGREEMENT FOR PROFESSIONAL SERVICES BETWEEN LOS ANGELES UNIFIED SCHOOL DISTRICT AND MICHIGAN STATE UNIVERSITY, CREATE FOR STEM INSTITUTE.
195	\$273,750	VARIOUS SCHOOLS	Paine, Lynn	EDUCATION DEAN	CHINESE TEACHER CERTIFICATION PROGRAM
196	\$901,863	INST OF EDUCATION SCIENCES	Strunk, Katharine	EDUCATION POLICY CENTER	EVALUATING MICHIGAN'S EARLY LITERACY LAW: IMPACTS, IMPLEMENTATION AND IMPROVING STATE CAPACITY
197	\$436,869	SPENCER FOUNDATION	Chudgar, Amita	EDUCATIONAL ADMINISTRATION	UNDERSTANDING MARGINALIZED YOUTH'S SECONDARY EDUCATION EXPERIENCES: A MIXED-METHODS STUDY OF COLOMBIA, INDIA, AND MALAWI
198	\$12,141	MICHIGAN TECHNOLOGICAL UNIVERSITY	Ranganathan, Rajiv	KINESIOLOGY - ED	MOTOR LEARNING AS A SENSITIVE BEHAVIORAL MARKER OF MILD COGNITIVE IMPAIRMENT AND EARLY ALZHEIMER'S DISEASE
199	\$341,481	NATIONAL SCIENCE FOUNDATION	Calabrese Barton, Angela	TEACHER EDUCATION	SCIENCE LEARNING + PARTNERSHIPS: PARTNERING FOR EQUITABLE STEM PATHWAYS FOR UNDERREPRESENTED YOUTH

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
200	\$116,722	NATIONAL SCIENCE FOUNDATION	Drake, Corey	TEACHER EDUCATION	COLLABORATIVE RESEARCH: CO-DEVELOPING A CURRICULUM COHERENCE TOOLKIT WITH TEACHERS
201	\$1,061,772	NATIONAL SCIENCE FOUNDATION	Richmond, Gail	TEACHER EDUCATION	TEACHING SCIENCE OUTDOORS: A NEXT GENERATION APPROACH FOR ADVANCING ELEMENTARY SCIENCE TEACHING IN URBAN COMMUNITIES
202	\$49,820	SPENCER FOUNDATION	Warren, Chezare	TEACHER EDUCATION	OPERATIONALIZING THE APPLICATION OF EMPATHY IN STUDENT-TEACHER INTERACTIONS WITH YOUNG BLACK MEN AND BOYS
COLLEGE OF ENGINEERING					
203	\$5,693	VARIOUS INDUSTRIES	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	FEE FOR SERVICE -- CARL BOEHLERT
204	\$60,170	NATIONAL SCIENCE FOUNDATION	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	AGEP-GRS: DEVELOPMENT OF NOVEL HIGH STRENGTH BIODEGRADABLE METALS FOR TEMPORARY BIOMEDICAL IMPLANTS
205	\$216,576	US DEPT OF ENERGY	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	CHARACTERIZATION AND MODELING OF DEFORMATION INDUCED DAMAGE IN HEXAGONAL METALS
206	\$185,383	UNIVERSITY OF UTAH	Calabrese Barton, Scott	CHEMICAL ENGINEERING AND MATERIALS SCI	BIO-INSPIRED DESIGN OF ADAPTIVE CATALYSTS CASCADES
207	\$12,000	NATIONAL SCIENCE FOUNDATION	Chan, Christina	CHEMICAL ENGINEERING AND MATERIALS SCI	REU: COLLABORATIVE RESEARCH: DYNAMIC DEGRADATION OF PROTEINS BY UBIQUITINATION PROVIDES A NOVEL THERAPEUTIC FOR CONTROLLING ELEVATED PROTEIN LEVELS
208	\$10,000	VARIOUS INDUSTRIES	Dargazany, Roozbeh	CHEMICAL ENGINEERING AND MATERIALS SCI	FEE FOR SERVICE - DARGAZANY, ROOZBEH
209	\$159,969	COLLABORATIVE COMPOSITE SOLUTIONS CORP	Jayaraman, K	CHEMICAL ENGINEERING AND MATERIALS SCI	IACMI TASK 3.16: DIMENSIONAL STABILITY OF LOW-COST THERMOPLASTIC COMPOSITE MOLDS
210	\$10,000	NATIONAL SCIENCE FOUNDATION	Walton, Stephen	CHEMICAL ENGINEERING AND MATERIALS SCI	RESEARCH INITIATION: UNDERSTANDING THE IMPACT OF INSTITUTIONAL SUPPORTS ON THE MOTIVATION, BELONGING, IDENTITY DEVELOPMENT, AND PERSISTENCE OF ENGINEERING STUDENTS
211	\$140,474	US DEPT OF ENERGY	Zevalkink, Alexandra	CHEMICAL ENGINEERING AND MATERIALS SCI	TUNING ANISOTROPIC BONDING VIA CHEMISTRY AND PRESSURE IN LAYERED PNICTIDES AND CHALCOGENIDES
212	\$16,709	MILLENNIUM CHALLENGE CORP	Chatti, Karim	CIVIL AND ENVIRONMENTAL ENGINEERING	CONCEPTION OF A MASTER'S DEGREE PROGRAM IN INFRASTRUCTURE MANAGEMENT IN COTE D'IVOIRE
213	\$285,704	NATIONAL SCIENCE FOUNDATION	Cupples, Alison	CIVIL AND ENVIRONMENTAL ENGINEERING	IDENTIFYING BIOMARKERS TO OPTIMIZE BIOREMEDIATION APPROACHES FOR CONTAMINATED GROUNDWATER
214	\$148,500	CITY OF WIXOM	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	GIS DATABASE ASSESSMENT FOR THE CITY OF WIXOM, MICHIGAN

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
215	\$206,102	MICHIGAN DEPT OF TRANSPORTATION	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	SYNTHESIS OF NATIONAL BEST PRACTICES ON PEDESTRIAN AND BICYCLE DESIGN, GUIDANCE AND TECHNOLOGY INNOVATIONS
216	\$352,175	MICHIGAN DEPT OF TRANSPORTATION	Savolainen, Peter	CIVIL AND ENVIRONMENTAL ENGINEERING	THE INTERRELATIONSHIPS BETWEEN SPEED LIMITS, GEOMETRY, AND DRIVER BEHAVIOR
217	\$17,600	FORD MOTOR CO	Savolainen, Peter	CIVIL AND ENVIRONMENTAL ENGINEERING	2019 FORD/ALLIANCE FACULTY SUMMER SABBATICAL PROGRAM
218	\$110,860	MICHIGAN DEPT OF TRANSPORTATION	Zockaie, Ali	CIVIL AND ENVIRONMENTAL ENGINEERING	EFFECTIVENESS OF GREEN STROBES ON WINTER MAINTENANCE VEHICLES AND EQUIPMENT
219	\$17,330	FORD MOTOR CO	Zockaie, Ali	CIVIL AND ENVIRONMENTAL ENGINEERING	2019 FORD/ALLIANCE FACULTY SUMMER SABBATICAL PROGRAM
220	\$66,476	VARIOUS INDUSTRIES	Drzal, Lawrence	COMPOSITE MATERIALS AND STRUCTURES CTR	EGR CMSC FEE FOR SERVICE
221	\$68,000	LAWRENCE LIVERMORE NATIONAL LABORATORY	Murillo, Michael	COMPUTATIONAL MATH SCI AND ENGR EGR	KINETIC THEORY MOLECULAR DYNAMICS
222	\$617,000	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Murillo, Michael	COMPUTATIONAL MATH SCI AND ENGR EGR	COMPUTATIONAL NON-IDEAL PLASMA PHYSICS
223	\$75,000	US DEPT OF ENERGY	Murillo, Michael	COMPUTATIONAL MATH SCI AND ENGR EGR	MULTISCALE MODELING OF PLASMAS WITH SMALL COULOMB LOGARITHMS: ELECTRONIC TRANSPORT
224	\$141,907	UNIVERSITY OF CALIFORNIA LOS ANGELES	Chai, Joyce	COMPUTER SCIENCE AND ENGINEERING	LEARNING AND COMMUNICATING EXPLAINABLE REPRESENTATIONS FOR ANALYTICS AND AUTONOMY
225	\$10,000	NATIONAL CENTER FOR WOMEN & INFORMATION TECHNOLOGY	Dillon, Laura	COMPUTER SCIENCE AND ENGINEERING	NCWIT GIFT
226	\$30,000	GOODIX TECHNOLOGY INC	Jain, Anil	COMPUTER SCIENCE AND ENGINEERING	GOODIX TECHNOLOGY RESEARCH GIFT
227	\$100,000	FORD MOTOR CO	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	3D RECONSTRUCTION FOR VEHICLES
228	\$271,807	WEST VIRGINIA UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PERFORMING IRIS RECOGNITION FROM FACE IMAGES IN THE VISIBLE SPECTRUM

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
229	\$106,172	NATIONAL SCIENCE FOUNDATION	Zhou, Jiayu	COMPUTER SCIENCE AND ENGINEERING	CAREER: HARNESS THE BIG DATA VIA LARGE-SCALE LIFELONG LEARNING
230	\$162,772	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
231	\$21,599	FORD MOTOR CO	Bopardikar, Shaunak	ELECTRICAL AND COMPUTER ENGINEERING	2019 FORD/ALLIANCE FACULTY SUMMER SABBATICAL PROGRAM
232	\$50,000	ELECTRIC POWER RESEARCH INST	Chakrapani, Sunil Kishore	ELECTRICAL AND COMPUTER ENGINEERING	ULTRASONIC ATTENUATION, BACKSCATTER AND ABSORPTION FOR MICROSTRUCTURE CHARACTERIZATION
233	\$60,000	ELECTRIC POWER RESEARCH INST	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	ELECTROMAGNETIC METHODS FOR THE DETERMINATION OF EARLY STAGE FATIGUE
234	\$250,000	NATIONAL SCIENCE FOUNDATION	Fan, Qi	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPING AN EFFICIENT COMPUTATION SCHEME FOR MODELING LOW-PRESSURE PLASMAS
235	\$150,000	KYMA TECHNOLOGIES INC	Grotjohn, Timothy	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF LARGE AREA MOSAIC SINGLE CRYSTAL DIAMOND SUBSTRATES
236	\$81,724	US DEPT OF ENERGY	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	FIBER-OPTIC BOLOMETER AND CALORIMETER ARRAYS FOR MAGNETICALLY CONFINED PLASMAS
237	\$50,000	NATIONAL SCIENCE FOUNDATION	Li, Wen	ELECTRICAL AND COMPUTER ENGINEERING	SUPPLEMENTAL FUNDING: IMPLANTABLE, WIRELESS, AND POWER-EFFICIENT TRIMODAL NEURAL INTERFACE FOR ELECTRO-OPTOGENETIC MANIPULATION OF VISUAL CORTEX IN SMALL FREELY BEHAVING ANIMALS
238	\$66,121	UNIVERSITY OF MICHIGAN	Mukkamala, Ramakrishna	ELECTRICAL AND COMPUTER ENGINEERING	MOBILE DEVICE-BASED CONGESTION PREDICTION FOR REDUCING HOSPITALIZATIONS IN PATIENTS WITH CONCOMITANT HEART FAILURE AND ATRIAL FIBRILLATION
239	\$219,168	NATIONAL INST OF HEALTH	Mukkamala, Ramakrishna	ELECTRICAL AND COMPUTER ENGINEERING	A SMARTPHONE-BASED DEVICE FOR CUFF-LESS AND CALIBRATION-FREE BLOOD PRESSURE MONITORING
240	\$234,480	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	OPEN-LOOP COHERENT DISTRIBUTED ARRAYS
241	\$148,225	RIVERSIDE RESEARCH	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	COORDINATION TECHNOLOGIES FOR COHERENT DISTRIBUTED BEAMFORMING
242	\$300,000	COMBATting TERRORISM TECHNICAL SUPPORT OFFICE	Papapolymerou, Ioannis	ELECTRICAL AND COMPUTER ENGINEERING	FLEXIBLE MINIATURIZED LOW COST UHF ANTENNAS USING NANOMAGNETIC BASED FILMS- PHASE 3: SCOS-R4191-PROPOSALTEAM1-30222-FP
243	\$80,000	AMAZON	Radha, Hayder	ELECTRICAL AND COMPUTER ENGINEERING	JOINT MULTI-TARGET TRACKING AND CLASSIFICATION FOR FULLY AUTONOMOUS ROBOTS OPERATING WITHIN DYNAMIC WAREHOUSE ENVIRONMENTS

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
244	\$139,803	SEMICONDUCTOR RESEARCH CORP	Radha, Hayder	ELECTRICAL AND COMPUTER ENGINEERING	MULTISTAGE ADAPTIVE FUSION AND 4D JOINT DETECTION-AND-TRACKING FOR AUTONOMOUS VEHICLES
245	\$80,000	PRINCETON UNIV	Srivastava, Vaibhav	ELECTRICAL AND COMPUTER ENGINEERING	RESILIENCE AND ROBUSTNESS IN ECOLOGICAL DISTRIBUTED DECISION-MAKING DYNAMICS
246	\$8,766	UNIVERSITY OF MICHIGAN	Caldwell, Theodore	ENGINEERING DEAN	MICHIGAN LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION
247	\$223,004	NATIONAL INST OF HEALTH	Alessio, Adam	INSTITUTE FOR QUANTITATIVE HEALTH	AUTOMATIC RIB FRACTURE DETECTION IN PEDIATRIC RADIOGRAPHY TO IDENTIFY NON-ACCIDENTAL TRAUMA
248	\$108,613	NATIONAL INST OF HEALTH	Contag, Christopher	INSTITUTE FOR QUANTITATIVE HEALTH	RAMAN MOLECULAR IMAGING FOR EARLY DETECTION OF COLON CANCER
249	\$15,515	MASSACHUSETTS GENERAL HOSPITAL	Gilad, Assaf	INSTITUTE FOR QUANTITATIVE HEALTH	A CEST-MRI REPORTER GENE FOR IMAGE GUIDED ONCOLYTIC VIROTHERAPY
250	\$337,630	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Pelled, Galit	INSTITUTE FOR QUANTITATIVE HEALTH	THE ROLE OF THE TRANSCALLOSAL PATHWAY IN NEUROPLASTICITY FOLLOWING NERVE INJURY
251	\$515,247	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Pelled, Galit	INSTITUTE FOR QUANTITATIVE HEALTH	BIOENGINEERING A NOVEL ELECTROMAGNETIC PERSPECTIVE GENE AS A TOOL FOR WIRELESS CONTROL OF EXCITABLE CELLS
252	\$7,641	NATIONAL SCIENCE FOUNDATION	Bush, Tamara	MECHANICAL ENGINEERING	A SYNERGISTIC APPROACH OF PRESSURE ULCER PREVENTION FOR SPINAL CORD INJURED INDIVIDUALS THROUGH EXPERIMENTS AND MODELING
253	\$12,000	HANWHA Q CELLS & ADVANCED MATERIALS	Chung, Haseung	MECHANICAL ENGINEERING	HANWHA Q CELLS & ADVANCED MATERIALS NON-TENURE FACULTY AWARD
254	\$39,193	NATIONAL SCIENCE FOUNDATION	Grimm, Michele	MECHANICAL ENGINEERING	MICHELE GRIMM - IPA ASSIGNMENT WITH THE NATIONAL SCIENCE FOUNDATION (NSF)
255	\$21,000	NATIONAL SCIENCE FOUNDATION	Klausner, James	MECHANICAL ENGINEERING	PSC: TITANIUM ENABLES DIVERSITY (TED)
256	\$100,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Koochesfahani, Manoochehr	MECHANICAL ENGINEERING	ZBOT-2 THERMOMETRY DIAGNOSTICS DEVELOPMENT
257	\$50,000	DENSO FOUNDATION	Li, Zhaojian	MECHANICAL ENGINEERING	ROAD INFORMATION HARVESTING: USING CARS AS MOBILE SENSORS
258	\$27,200	FORD MOTOR CO	Modares, Hamidreza	MECHANICAL ENGINEERING	2019 FORD/ALLIANCE FACULTY SUMMER SABBATICAL PROGRAM

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
259	\$33,000	STANDING WAVE REFORMERS LLC	Mueller, Norbert	MECHANICAL ENGINEERING	REFORMING WAVE ROTOR MODEL
260	\$64,593	PRIME PHOTONICS LC	Mueller, Norbert	MECHANICAL ENGINEERING	BLADE DEFLECTIONS
261	\$26,438	NATIONAL SCIENCE FOUNDATION	Mukherjee, Ranjan	MECHANICAL ENGINEERING	ANALYSIS OF LARGE AMPLITUDE, SHORT DURATION CONTROL FORCES FOR GUIDING UNDERACTUATED MECHANICAL SYSTEMS INTO SAFE OPERATING REGIONS.
262	\$95,000	FIAT CHRYSLER AUTOMOBILES US LLC	Schock, Harold	MECHANICAL ENGINEERING	TESTING CONCEPTS FOR IMPROVED COMBUSTION IN IC ENGINES
263	\$39,200	FORD MOTOR CO	Tai, Wei-Che	MECHANICAL ENGINEERING	2019 FORD/ALLIANCE FACULTY SUMMER SABBATICAL PROGRAM
264	\$215,977	DENSO CORP	Zhu, Guoming	MECHANICAL ENGINEERING	FEASIBILITY ASSESSMENT FOR URBAN AIR MOBILITY (UAM) VEHICLES UTILIZING DENSO'S MOBILITY PRODUCTS
COLLEGE OF HUMAN MEDICINE					
265	\$17,857	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
266	\$5,055	BIG TEN CANCER RESEARCH CONSORTIUM	Rana, Jatin	CANCER CENTER	BTCRC-BRE-16-042 PHASE III STUDY OF PEMBROLIZUMAB PLUS FULVESTRANT IN HORMONE RECEPTOR POSITIVE HER-2 NEGATIVE ADVANCE/METASTATIC BREAST CANCER PATIENTS
267	\$25,944	UNIV OF KANSAS MEDICAL CENTER RESEARCH INST INC	Felton, Julia	CHM FLINT	REMEDIATION OF ELEVATED DELAY DISCOUNTING IN MID-LIFE INDIVIDUALS: A STAGE-II TRIAL
268	\$3,600,000	CENTERS FOR DISEASE CONTROL & PREVENTION	Hanna-Attisha, Mona	CHM FLINT	CONTINUATION OF CDC RC107653
269	\$18,607	BUTLER HOSPITAL	Johnson, Jennifer	CHM FLINT	MOBILE AFTER-CARE SUPPORT INTERVENTION FOR PATIENTS WITH SCHIZOPHRENIA FOLLOWING HOSPITALIZATION
270	\$15,233	WAYNE STATE UNIV	Lucas, Todd	CHM FLINT	NORMATIVE MESSAGES TO PROMOTE COLORECTAL CANCER SCREENING UPTAKE AMONG AFRICAN AMERICANS
271	\$252,954	NATIONAL INST OF HEALTH	Lucas, Todd	CHM FLINT	CULTURALLY TARGETED LOSS FRAMED MESSAGING FOR COLORECTAL CANCER SCREENING IN AFRICAN AMERICANS
272	\$1,263,740	ALLIANCE CORP	Holmes, Denise	CHM WEST MICHIGAN	MSU-ALLIANCE TRANSLATIONAL HEALTH RESEARCH IN GRAND RAPIDS
273	\$118,615	NATIONAL INST ON DRUG ABUSE	Brincks, Ahnalee	EPIDEMIOLOGY AND BIostatISTICS	DEVELOPING METHODS TO ESTIMATE MEDIATION EFFECTS IN ADAPTIVE INTERVENTIONS

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
274	\$147,933	NATIONAL INST OF HEALTH	Li, Chenxi	EPIDEMIOLOGY AND BIOSTATISTICS	NEW SURVIVAL ANALYSIS METHODS FOR LONGITUDINAL STUDIES OF CHILDHOOD DENTAL CARIES
275	\$325,933	NATIONAL INST OF HEALTH	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	EFFECTS OF THE ACA MEDICAID EXPANSION ON WOMEN'S PRECONCEPTION, REPRODUCTIVE, AND PREGNANCY HEALTH
276	\$195,401	HEALTH RESOURCES & SERVICES ADMINISTRATION	Edwards-Johnson, Jennifer	FAMILY MEDICINE, DEPARTMENT OF	DEVELOPMENT OF A CURRICULUM IN PRIMARY CARE OF UNDERSERVED PATIENTS
277	\$103,675	UNIVERSITY OF MICHIGAN	Ilardo, Joan	HUMAN MEDICINE DEAN	MICHIGAN CENTER FOR URBAN AFRICAN AMERICAN AGING RESEARCH
278	\$49,999	AMERICAN BOARD OF FAMILY MEDICINE FOUNDATION	Phillips, Julie	HUMAN MEDICINE DEAN	COMPREHENSIVE SYSTEMATIC REVIEW OF MEDICAL SCHOOL INTERVENTIONS TO SUPPORT THE FUTURE PRIMARY CARE WORKFORCE
279	\$332,381	NATIONAL INST OF HEALTH	Gilad, Assaf	INSTITUTE FOR QUANTITATIVE HEALTH	MOLECULAR IMAGING FOR DETECTION OF SYNTHETIC BIOLOGY CIRCUITS, OSCILLATORS AND TOGGLE SWITCHES IN REGENERATIVE MEDICINE
280	\$538,002	NATIONAL INST OF HEALTH	Moore, Anna	INSTITUTE FOR QUANTITATIVE HEALTH	SIRNA PROTECTION OF COMPOSITE ISLET KIDNEY TRANSPLANT IN BABOONS
281	\$475,495	NATIONAL INST OF HEALTH	Moore, Anna	INSTITUTE FOR QUANTITATIVE HEALTH	SIRNA PROTECTION OF ISLET GRAFTS IN BABOONS
282	\$133,537	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oliveri, Anthony	MEDICINE	A STATEWIDE PROGRAM TO PREVENT CHILD TAKE-HOME LEAD EXPOSURES IN MICHIGAN
283	\$685,000	NATIONAL INST FOR OCCUPATIONAL SAFETY & HEALTH	Rosenman, Kenneth	MEDICINE	EXPANDED PROGRAM IN OCCUPATIONAL INJURY AND ILLNESS SURVEILLANCE
284	\$381,633	NATIONAL INST OF HEALTH	Drewlo, Sascha	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE ROLE OF PPAR IN HUMAN PLACENTAL DEVELOPMENT AND PREECLAMPSIA
285	\$18,218	CRADLE GENOMICS	Drewlo, Sascha	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	A NONINVASIVE PLATFORM TO ASSESS MATERNAL RISK FOR PERINATAL COMPLICATIONS IN THE FIRST TRIMESTER
286	\$319,500	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	MODULATION OF THE RECEPTIVE ENDOMETRIUM AND DECIDUALIZATION BY NOTCH
287	\$20,000	SOCIETY FOR REPRODUCTIVE INVESTIGATION	Kim, Tae Hoon	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE PATHOPHYSIOLOGY OF PROGESTERONE RESISTANCE IN ENDOMETRIOSIS

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
288	\$506,736	NATIONAL INST OF HEALTH	Luke, Barbara	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ASSISTED REPRODUCTION AND CHILD HEALTH: RISK OF BIRTH DEFECTS, MORTALITY, AND EFFECT ON GRADE SCHOOL PERFORMANCE
289	\$41,797	DARTMOUTH HITCHCOCK MEDICAL CENTER	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SUBFERTILITY AND ASSISTED CONCEPTION STUDY OF PARENT AND CHILD HEALTH OUTCOMES
290	\$285,012	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	HARNESSING BIOMARKER AND PHENOTYPIC DIVERSITY AMONG ADOLESCENTS AND WOMEN WITH ENDOMETRIOSIS TO ADVANCE PERSONALIZED MEDICINE FOR DIAGNOSIS AND PAIN REMEDIATION
291	\$162,780	BOSTON CHILDRENS HOSPITAL	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE BOSTON CENTER FOR ENDOMETRIOSIS / WOMEN'S HEALTH STUDY: FROM ADOLESCENCE TO ADULTHOOD
292	\$14,566	SPECTRUM HEALTH SYSTEM	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	STRONG BEGINNINGS (HEALTHY START INITIATIVE - ELIMINATING RACIAL/ETHNIC DISPARITIES)
293	\$50,000	MICHIGAN OVARIAN CANCER ALLIANCE	Teixeira, Jose	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	PARP INHIBITION AND NON-BRCA DNA DAMAGE REPAIR MUTATION
294	\$259,540	NATIONAL CANCER INST	Bachmann, Andre'	PEDIATRICS AND HUMAN DEVELOPMENT	NOVEL ODC INHIBITOR PHASEOLOTOXIN IN NEUROBLASTOMA
295	\$388,119	HENLIUS	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	A COLLABORATIVE PROPOSAL BETWEEN MSU AND HENGENIX BIOTECH: IDENTIFYING NEXT GENERATION IMMUNO-ONCOLOGY TARGETS USING A BIG DATA APPROACH
296	\$60,000	HEMOPHILIA FOUNDATION OF MICHIGAN	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	MATERNAL CHILD HEALTH BUREAU (MCHB) GRANT
297	\$11,082	BIOVERATIV THERAPEUTICS INC	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	A RETROSPECTIVE CHART REVIEW TO ASSESS CLINICAL CHARACTERISTICS OF WOMEN AND GIRLS WITH FACTOR VII AND IX DEFICIENCY (US-HEM-18-11146)
298	\$7,300	BIOVERATIV THERAPEUTICS INC	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	242HA201: A PROSPECTIVE STUDY IN SUBJECTS WITH SEVERE HEMOPHILIA A WHO ARE CURRENTLY RECEIVING A MARKETING FVIII THERAPY
299	\$8,000	HEMOPHILIA ALLIANCE	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	HEMOPHILIA ALLIANCE FOUNDATION
300	\$7,313	BIOMARIN PHARMACEUTICAL INC	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	BIOMARIN STUDY 270-902
301	\$58,165	CYSTIC FIBROSIS FOUNDATION	Thomas, Ryan	PEDIATRICS AND HUMAN DEVELOPMENT	CF FOUNDATION CENTER GRANT 2019-20

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
302	\$248,999	NATIONAL INST OF MENTAL HEALTH	Williams, Michael	PEDIATRICS AND HUMAN DEVELOPMENT	THE ROLE OF KIT SIGNALING IN CEREBELLAR DEVELOPMENT
303	\$30,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FY19 QUALITY IMPROVEMENT WORK PLAN
304	\$561,645	NATIONAL INST OF HEALTH	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	GENETIC SILENCING OF STRIATAL CAV1.3 CALCIUM CHANNELS AS A POTENT ANTIDYSKINETIC THERAPY FOR PD
305	\$590,031	NATIONAL INST OF HEALTH	Gordon, Marcia	TRANSLATIONAL NEUROSCIENCE	GEROSCIENCE APPROACHES TO MITIGATE TAUOPATHY IN AGED MOUSE BRAIN
306	\$21,607	HESPEROS INC	Morgan, David	TRANSLATIONAL NEUROSCIENCE	HUMAN ON A CHIP SYSTEM TO INVESTIGATE GENETIC RISK FACTORS IN ALZHEIMER'S DISEASE
307	\$680,675	NATIONAL INST OF HEALTH	Morgan, David	TRANSLATIONAL NEUROSCIENCE	INFLUENCE OF SYSTEMIC IMMUNE INFLAMMATION UPON THE TAUOPATHY PHENOTYPE IN MOUSE MODELS
308	\$362,411	NATIONAL INST OF HEALTH	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	THE RAT PRE-FORMED ALPHA-SYNUCLEIN FIBRIL MODEL OF PARKINSON'S DISEASE
309	\$441,800	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	SYNUCLEINOPATHY TRIGGERED NEUROINFLAMMATION
JAMES MADISON COLLEGE					
310	\$66,600	UNIVERSITY OF NOTRE DAME	Brathwaite, Robert	JAMES MADISON COLLEGE DEAN	KILLING IN THE NAME OF: RELIGIOUS VIOLENCE AROUND THE WORLD
311	\$30,000	WOODROW WILSON NATIONAL FELLOWSHIP FOUNDATION	Peters, Tacuma	JAMES MADISON COLLEGE DEAN	CAREER ENHANCEMENT FELLOWSHIPS FOR JUNIOR FACULTY
COLLEGE OF MUSIC					
312	\$10,000	PNC FOUNDATION	Demott, Jaime	COMMUNITY MUSIC SCHOOL	EARLY CHILDHOOD MUSIC WITH GROW UP GREAT
313	\$65,000	ERB FAMILY FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	MSU COMMUNITY MUSIC SCHOOL-DETROIT JAZZ EDUCATION AND MENTORSHIP PROGRAM
314	\$100,000	COMMUNITY FOUNDATION FOR SOUTHEAST MICHIGAN	Woodward, Jill	COMMUNITY MUSIC SCHOOL	MUSIC & SOCIAL JUSTICE FOR DETROIT YOUTH
COLLEGE OF NATURAL SCIENCE					

Gift, Grant and Contract Report Board of Trustees September 2019

	Amount	Sponsor	Director	Unit	Purpose
315	\$335,958	NATIONAL INST OF HEALTH	Dickson, Alexander	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	REVEALING THE LIGAND BINDING LANDSCAPE WITH ADVANCED MOLECULAR SIMULATION METHODS
316	\$86,210	UNIVERSITY OF NORTH TEXAS	Grotewold, Erich	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	DEVELOPMENT OF RESOURCES AND TOOLS TO IMPROVE OIL CONTENT AND QUALITY IN PENNYCRESS
317	\$169,293	NATIONAL SCIENCE FOUNDATION	Haudek, Kevin	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	COLLABORATIVE RESEARCH: LEARNING PROGRESSIONS ON THE DEVELOPMENT OF PRINCIPLE-BASED REASONING IN UNDERGRADUATE PHYSIOLOGY (LEAP UP)
318	\$300,415	NATIONAL INST OF HEALTH	Hu, Jian	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	ZINC ENRICHMENT/ZINC SENSING MECHANISM THROUGH THE EXTRACELLULAR DOMAIN OF ZIP4
319	\$261,089	UNIVERSITY OF MEMPHIS	Jones III, Arthur	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	EFFECT OF PRENATAL COMPOUNDS ON ADULT LUNG FUNCTION VIA NEONATAL DNA METHYLATION
320	\$215,686	NATIONAL SCIENCE FOUNDATION	Kuo, Min	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	TRIACYLGLYCEROL AND LIFESPAN CONTROL IN A MODEL ORGANISM SACCHAROMYCES CEREVISIAE
321	\$285,968	NATIONAL INST OF HEALTH	Last, Robert	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	PLANT BIOTECHNOLOGY FOR HEALTH AND SUSTAINABILITY
322	\$10,000	LUDWIG INST FOR CANCER RESEARCH	Lunt, Sophia	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	IMMUNOMETABOLIC EDITING ON FACILITATING IMMUNE EVASION IN MELANOMAS
323	\$24,395	UNIVERSITY OF MICHIGAN	Martinez Hackert, Erik	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	NOVEL TREATMENT FOR PREVENTING MUSCLE ATROPHY, AND FATTY INFILTRATION AFTER ROTATOR CUFF INJURY
324	\$500,000	BURROUGHS WELLCOME FUND	Parent, Kristin	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	ENTER THE GOLIATHS: STRUCTURE AND FUNCTION OF GIANT VIRUS ENTRY MECHANISMS
325	\$58,266	UNIVERSITY OF MINNESOTA	Quinn, Robert	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	IN VIVO MICROBIAL ACTIVITY ASSOCIATED WITH CF CLAD
326	\$259,767	NATIONAL INST OF HEALTH	Ralston, Amy	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	MOLECULAR MECHANISMS REGULATING FORMATION OF DIVERSE STEM CELL PROGENITORS
327	\$262,240	NATIONAL SCIENCE FOUNDATION	Beck, Warren	CHEMISTRY	COLLABORATIVE RESEARCH: COMBINING THEORY AND EXPERIMENT TO UNDERSTAND CAROTENOID PHOTOPHYSICS IN PHOTOSYNTHETIC LIGHT-HARVESTING

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
328	\$480,000	NATIONAL SCIENCE FOUNDATION	Borhan, Babak	CHEMISTRY	POINT-TO-AXIAL CHIRALITY TRANSFER: ENABLING STEREOCHEMICAL DETERMINATIONS AND ENANTIOSELECTIVE REACTIONS
329	\$668,362	NATIONAL SCIENCE FOUNDATION	Cooper, Melanie	CHEMISTRY	DEVELOPING LEARNING ENVIRONMENTS THAT SUPPORT MOLECULAR-LEVEL SENSEMAKING
330	\$93,780	US DEPT OF ENERGY	Dantus, Marcos	CHEMISTRY	SISGR: UNDERSTANDING AND CONTROLLING STRONG-FIELD LASER INTERACTIONS WITH POLYATOMIC MOLECULES
331	\$294,353	NATIONAL INST OF HEALTH	Hong, Heedeok	CHEMISTRY	FOLDING AND DEGRADATION OF MEMBRANE PROTEINS
332	\$280,000	NATIONAL SCIENCE FOUNDATION	Hunt, Katharine	CHEMISTRY	NONADIABATIC TRANSITION PROBABILITIES: APPLICATIONS TO SPECTROSCOPY AND QUANTUM THERMODYNAMICS
333	\$111,456	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Levine, Benjamin	CHEMISTRY	AB INITIO MOLECULAR DYNAMICS ABOVE THE IONIZATION THRESHOLD
334	\$109,588	US DEPT OF ENERGY	Levine, Benjamin	CHEMISTRY	A MULTIREFERENCE APPROACH TO ELECTRON AND ELECTRON-NUCLEAR DYNAMICS IN NANOMATERIALS
335	\$227,362	US DEPT OF ENERGY	McCusker, James	CHEMISTRY	SYNTHESIS AND SPECTROSCOPY OF TRANSITION METAL-BASED CHROMOPHORES: TAILORING FIRST-ROW PHOTOPHYSICS FOR APPLICATIONS IN SOLAR ENERGY CONVERSION
336	\$277,765	NATIONAL SCIENCE FOUNDATION	Odom, Aaron	CHEMISTRY	MRI: ACQUISITION OF A DUO SOURCE SINGLE CRYSTAL X-RAY DIFFRACTOMETER FOR THE CENTER FOR X-RAY CRYSTALLOGRAPHIC RESEARCH
337	\$169,698	US DEPT OF ENERGY	Piecuch, Piotr	CHEMISTRY	NEW SINGLE- AND MULTI-REFERENCE COUPLED-CLUSTER METHODS FOR HIGH ACCURACY CALCULATIONS OF GROUND AND EXCITED STATES
338	\$359,536	NATIONAL INST OF HEALTH	Weliky, David	CHEMISTRY	SOLID-STATE NMR OF VIRAL FUSION PEPTIDES AND PROTEINS
339	\$379,184	NATIONAL SCIENCE FOUNDATION	Wilson, Angela	CHEMISTRY	COMPUTATIONAL STRATEGIES FOR TRANSITION METALS AND HEAVY ELEMENTS
340	\$144,938	US DEPT OF ENERGY	Wilson, Angela	CHEMISTRY	LIGHT-INDUCED SPIN TRAPPING IN TRANSITION METAL COMPOUNDS
341	\$110,000	BROOKHAVEN NATIONAL LABORATORY	Bazavov, Alexei	COMPUTATIONAL MATH SCI AND ENGR CNS	COMPUTING THE PROPERTIES OF MATTER WITH LEADERSHIP COMPUTING RESOURCES
342	\$107,200	NATIONAL SCIENCE FOUNDATION	Chen, Min	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: EXPLORING THE NATURE OF DEEP-FOCUS EARTHQUAKES IN THE JAPAN, KURIL, AND IZU-BONIN SUBDUCTION ZONES
343	\$449,995	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	METHOD OF LINES TRANSPORT APPROACH TO DIRECTED ENERGY HARDWARE INDEPENDENT ACCELERATION THROUGH KOKKOS
344	\$45,000	OFFICE OF NAVAL RESEARCH	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	HIGH ORDER SCALABLE SOLVERS

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
345	\$336,064	NATIONAL INST OF HEALTH	Krishnan, Arjun	COMPUTATIONAL MATH SCI AND ENGR CNS	RESOLVING AND UNDERSTANDING THE GENOMIC BASIS OF HETEROGENEOUS COMPLEX TRAITS AND DISEASE
346	\$150,000	NATIONAL SCIENCE FOUNDATION	Little, Anna	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: DATA-DRIVEN PATH METRICS FOR MACHINE LEARNING
347	\$246,596	NATIONAL SCIENCE FOUNDATION	Munch, Elizabeth	COMPUTATIONAL MATH SCI AND ENGR CNS	AF: SMALL: COLLABORATIVE RESEARCH: REEB GRAPH FLOWS: METRICS, DRAWINGS, AND ANALYSIS
348	\$325,001	NATIONAL INST OF HEALTH	Wang, Jianrong	COMPUTATIONAL MATH SCI AND ENGR CNS	STATISTICAL MODELING OF LONG-RANGE CHROMATIN INTERACTIONS ON GENE REGULATION AND UNDERLYING MOLECULAR MECHANISMS
349	\$155,000	NATIONAL SCIENCE FOUNDATION	Wang, Rongrong	COMPUTATIONAL MATH SCI AND ENGR CNS	CIF: SMALL: SUPER-RESOLUTION FOR IMAGING SCIENCE
350	\$45,660	NATIONAL SCIENCE FOUNDATION	Yang, Yang	COMPUTATIONAL MATH SCI AND ENGR CNS	COUPLED PHYSICS INVERSE PROBLEMS IN MEDICAL AND GEOPHYSICAL IMAGING
351	\$15,000	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	ENHANCING PHENOTYPIC TRAIT DATA COLLECTION AND ANALYSIS FOR FASTER BETTER SELECTIONS IN WHEAT BREEDING USING HIGH RESOLUTION DRONE IMAGERY
352	\$29,945	NATIONAL WILDLIFE FEDERATION	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	QUANTIFYING THE BENEFITS OF REMOVING WITHIN-FIELD LOW CROP PRODUCTIVITY AREAS ON WATER QUALITY, AND FARMERS' PROFIT
353	\$20,000	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	STRATEGIC AND TACTICAL N MANAGEMENT USING DRONE IMAGERY AND CROP MODELING TO INCREASE PROTEIN CONTENT AND GRAIN QUALITY IN WHEAT
354	\$305,988	AIR FORCE RESEARCH LABORATORY	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	GROUND TRUTH CHARACTERIZATION AND SEISMOLOGICAL STUDIES OF NORTHERN ASIA
355	\$29,140	NATIONAL SCIENCE FOUNDATION	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: THE UPLIFT AND SEISMIC STRUCTURE OF THE GREATER CAUCASUS
356	\$274,500	US DEPT OF STATE	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	RECOVERY, DIGITIZATION, AND ANALYSIS OF SOVIET PEACEFUL NUCLEAR EXPLOSION SEISMOGRAMS
357	\$104,789	UNIVERSITY OF COLORADO	Schrenk, Matthew	EARTH AND ENVIRONMENTAL SCIENCES	ROCK POWERED LIFE: REVEALING MECHANISMS OF ENERGY FLOW FROM THE LITHOSPHERE TO THE BIOSPHERE
358	\$18,000	UNIVERSITY OF MICHIGAN	Velbel, Michael	EARTH AND ENVIRONMENTAL SCIENCES	MICHIGAN SPACE GRANT CONSORTIUM 2015 - 2018.
359	\$14,290	CALIFORNIA INST OF TECHNOLOGY	Velbel, Michael	EARTH AND ENVIRONMENTAL SCIENCES	ISOLATING AND UNDERSTANDING SPECTRALLY ACTIVE CONSTITUENTS IN CARBONACEOUS CHONDRITES: LINKING METEORITE TO TELESCOPIC AND SPACECRAFT DATA

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
360	\$43,500	USDA FOREST SERVICE	Cognato, Anthony	ENTOMOLOGY NATURAL SCIENCE	BARK BEETLE IDENTIFICATION AND TAXONOMY (CURCULIONIDAE: SCOLYTINAE)
361	\$9,806	AMER GENETIC ASSOC	Boughman, Janette	INTEGRATIVE BIOLOGY	EFFECTS OF DIET ON FEMALE SPERM SELECTIVITY IN RAPIDLY EVOLVING STICKLEBACKS
362	\$632,909	CALIFORNIA DEPT OF FISH & WILDLIFE	Meek, Mariah	INTEGRATIVE BIOLOGY	AN IMPROVED GENOMICS TOOL FOR CHARACTERIZING LIFE HISTORY DIVERSITY AND PROMOTING RESILIENCE IN CENTRAL VALLEY CHINOOK SALMON
363	\$46,500	SCRIPPS RESEARCH INST	Miller, Kyle	INTEGRATIVE BIOLOGY	DYNEIN-DYNACTIN COMPLEX MEDIATED RETROGRADE TRANSPORT DURING LONG-TERM MEMORY
364	\$41,980	NATIONAL SCIENCE FOUNDATION	Zipkin, Elise	INTEGRATIVE BIOLOGY	INTERN SUPPLEMENTAL PROPOSAL
365	\$87,364	US FISH & WILDLIFE SERVICE	Zipkin, Elise	INTEGRATIVE BIOLOGY	DATA MANAGEMENT AND ANALYSIS FOR THE GULF OF MEXICO MARINE ASSESSMENT PROGRAM FOR PROTECTED SPECIES (GOMMAPPS)
366	\$300,000	IRVING S GILMORE FOUNDATION	Conner, Jeffrey	KELLOGG BIOLOGICAL STATION NAT. SCI.	KELLOGG BIRD SANCTUARY FACILITY RENOVATIONS
367	\$121,877	US ARMY CORPS OF ENGINEERS	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT. SCI.	LONG-TERM MONITORING AND HABITAT RESTORATION FOR THE U.S. FEDERALLY ENDANGERED ST. FRANCIS' SATYR BUTTERFLY
368	\$45,933	NATIONAL SCIENCE FOUNDATION	Cheng, Yingda	MATHEMATICS	OP: COLLABORATIVE RESEARCH: COMPATIBLE DISCRETIZATIONS FOR MAXWELL MODELS IN NONLINEAR OPTICS
369	\$80,742	NATIONAL SCIENCE FOUNDATION	Cheng, Yingda	MATHEMATICS	CAREER: DEVELOPMENT OF DISCONTINUOUS GALERKIN METHODS FOR KINETIC EQUATIONS IN HIGH DIMENSIONS
370	\$68,445	NATIONAL SCIENCE FOUNDATION	Hendricks, Kristen	MATHEMATICS	CAREER: EQUIVARIANT FLOER THEORY AND LOW-DIMENSIONAL TOPOLOGY
371	\$200,000	NATIONAL SCIENCE FOUNDATION	Iwen, Mark	MATHEMATICS	FAST AND ROBUST ALGORITHMS FOR SIGNAL RECOVERY FROM UNDERDETERMINED MEASUREMENTS: GENERALIZED SPARSE FOURIER TRANSFORMS, INVERSE PROBLEMS, AND DENSITY ESTIMATION
372	\$50,953	NATIONAL SCIENCE FOUNDATION	Kitagawa, Jun	MATHEMATICS	REGULARITY AND PARTIAL REGULARITY MONGE-AMP RE TYPE EQUATIONS, WITH APPLICATIONS TO NUMERICS
373	\$90,743	NATIONAL SCIENCE FOUNDATION	Qian, Jianliang	MATHEMATICS	OP: COLLABORATIVE RESEARCH: DEVELOPMENT OF ADVANCED IMAGE RECONSTRUCTION METHODS FOR PRE-CLINICAL APPLICATIONS OF PHOTOACOUSTIC COMPUTED TOMOGRAPHY
374	\$250,000	NATIONAL SCIENCE FOUNDATION	Schenker, Jeffrey	MATHEMATICS	LOCALIZATION AND DIFFUSION IN OPEN AND MANY BODY QUANTUM SYSTEMS
375	\$49,628	NATIONAL SCIENCE FOUNDATION	Schwab, Russell	MATHEMATICS	COLLABORATIVE RESEARCH: THE STRUCTURE OF NONLOCAL OPERATORS AND APPLICATIONS
376	\$85,293	NATIONAL SCIENCE FOUNDATION	Shapiro, Michael	MATHEMATICS	COLLABORATIVE RESEARCH: GENERALIZED CLUSTER STRUCTURES OF GEOMETRIC TYPE

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
377	\$75,617	NATIONAL SCIENCE FOUNDATION	Volberg, Alexander	MATHEMATICS	COLLABORATIVE RESEARCH: WEIGHTED ESTIMATES WITH MATRIX WEIGHTS AND NON-HOMOGENEOUS HARMONIC ANALYSIS
378	\$423,879	NATIONAL INST OF HEALTH	Crosson, Sean	MICROBIOLOGY & MOLECULAR GENETICS CNS	MOLECULAR MECHANISMS CONTROLLING STRESS RESPONSES AND CELL ADHESION IN BACTERIA
379	\$335,223	NATIONAL INST OF HEALTH	Hausinger, Robert	MICROBIOLOGY & MOLECULAR GENETICS CNS	NICKEL-PINCER NUCLEOTIDE ENZYMES
380	\$400,000	NATIONAL SCIENCE FOUNDATION	Hausinger, Robert	MICROBIOLOGY & MOLECULAR GENETICS CNS	COLLABORATIVE RESEARCH: ETHYLENE-FORMING ENZYME
381	\$524,441	NATIONAL INST OF DENTAL & CRANIOFACIAL RESEARCH	Pyeon, Dohun	MICROBIOLOGY & MOLECULAR GENETICS CNS	IMMUNE DYSREGULATION BY HUMAN PAPILLOMAVIRUS DURING HEAD AND NECK CANCER PROGRESSION
382	\$744,137	NATIONAL INST OF HEALTH	Schwartz, Richard	MICROBIOLOGY & MOLECULAR GENETICS CNS	MAMMARY CARCINOGENESIS: PUBERTAL AND ADULT EFFECTS OF HIGH FAT DIET+OXYBENZONE
383	\$449,787	NATIONAL SCIENCE FOUNDATION	Shade, Ashley	MICROBIOLOGY & MOLECULAR GENETICS CNS	CAREER: THE CONSEQUENCES OF RARITY FOR SOIL MICROBIOME STABILITY IN STRUCTURE AND FUNCTION
384	\$63,746	NATIONAL INST OF HEALTH	Stein, Benjamin	MICROBIOLOGY & MOLECULAR GENETICS CNS	ELUCIDATING THE MECHANISM AND SENSORY PROPERTIES OF A NOVEL IRON-SULFUR BINDING HISTIDINE KINASE INHIBITOR
385	\$237,838	THERAPEUTIC SYSTEMS RESEARCH LABORATORIES INC	Waters, Christopher	MICROBIOLOGY & MOLECULAR GENETICS CNS	A NOVEL COMBINATION THERAPY TO TARGETING BIOFILMS IN DIABETIC FOOT ULCER INFECTIONS
386	\$380,433	NATIONAL INST OF HEALTH	Yu, Kefei	MICROBIOLOGY & MOLECULAR GENETICS CNS	DNA STRUCTURE DIRECTED AID DEAMINATION DURING IMMUNOGLOBULIN ISOTYPE SWITCHING
387	\$391,250	NATIONAL INST OF HEALTH	Zheng, Yong-Hui	MICROBIOLOGY & MOLECULAR GENETICS CNS	THE ROLE OF SERINC5 IN HIV-1 REPLICATION
388	\$180,000	US DEPT OF ENERGY	Berz, Martin	PHYSICS-ASTRONOMY	ADVANCED TRANSFER MAP METHODS FOR PARTICLE BEAM DYNAMICS: THEORY, APPLICATIONS, AND EDUCATION
389	\$11,100	UNIVERSITY OF TEXAS AT SAN ANTONIO	Birge, Norman	PHYSICS-ASTRONOMY	GRAPHENE-ENABLED SPIN LOGIC CIRCUITS WITH ULTIMATE SPIN INJECTION AND TRANSPORT PROPERTIES

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
390	\$37,734	NORTHROP GRUMMAN CORP	Birge, Norman	PHYSICS-ASTRONOMY	NORTHROP GRUMMAN CORPORATION COLD LOGIC PROGRAM: 2013 NCTA GREDEL PROGRAM
391	\$800,000	NATIONAL SCIENCE FOUNDATION	Brock, Raymond	PHYSICS-ASTRONOMY	INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER
392	\$105,000	US DEPT OF ENERGY	Bromberg, Carl	PHYSICS-ASTRONOMY	NEUTRINO PHYSICS AND DUNE SINGLE-PHASE LARTPC
393	\$16,000	UNIVERSITIES RESEARCH ASSOC INC	Bromberg, Carl	PHYSICS-ASTRONOMY	RESEARCH PROPOSAL FOR THE URA VISITING SCHOLARS PROGRAM - REDDY PRATAP GANDRAJULA
394	\$93,147	NATIONAL SCIENCE FOUNDATION	Brown, Edward	PHYSICS-ASTRONOMY	SUPERBURSTS: MULTI-DIMENSIONAL SIMULATIONS OF DEEP CARBON EXPLOSIONS ON NEUTRON STARS
395	\$156,132	US DEPT OF ENERGY	Couch, Sean	PHYSICS-ASTRONOMY	THE CORE-COLLAPSE SUPERNOVA SENSITIVITY MACHINE
396	\$275,000	US DEPT OF ENERGY	Couch, Sean	PHYSICS-ASTRONOMY	TOWARDS EXASCALE ASTROPHYSICS OF MERGERS AND SUPERNOVAE (TEAMS)
397	\$51,220	UNIVERSITY OF WISCONSIN MADISON	DeYoung, Tyce	PHYSICS-ASTRONOMY	ICECUBE GEN@ PHASE: AN ICECUBE EXTENSION FOR PREVISION NEUTRINO PHYSICS AND ASTROPHYSICS - CONTRUCTION UPGRADE
398	\$28,979	UNIVERSITY OF WISCONSIN MADISON	DeYoung, Tyce	PHYSICS-ASTRONOMY	ICECUBE MAINTENANCE AND OPERATIONS 2010
399	\$33,770	JOHNS HOPKINS UNIV	Donahue, Megan	PHYSICS-ASTRONOMY	SOAR/SAM MULTIOBJECT SPECTROGRAPH (SAMOS)
400	\$11,279	SPACE TELESCOPE SCIENCE INST	Donahue, Megan	PHYSICS-ASTRONOMY	TESTING THE LIMITS OF AGN FEEDBACK IN STARBURST AND QSO CENTRAL CLUSTER GALAXIES
401	\$115,000	NATIONAL SCIENCE FOUNDATION	Duxbury, Phillip	PHYSICS-ASTRONOMY	SHOCKS AND OSCILLATIONS IN THE DYNAMICS OF EXPANDING COULOMB CLOUDS
402	\$193,786	NATIONAL SCIENCE FOUNDATION	Dykman, Mark	PHYSICS-ASTRONOMY	QUANTUM DYNAMICS AND FLUCTUATIONS IN NONLINEAR NANOMECHANICAL SYSTEMS
403	\$200,000	NATIONAL SCIENCE FOUNDATION	Faghfoor Maghrebi, Mohammad	PHYSICS-ASTRONOMY	NON-EQUILIBRIUM CRITICAL PHENOMENA IN MANY-BODY QUANTUM SYSTEMS
404	\$121,017	US DEPT OF ENERGY	Ke, Xianglin	PHYSICS-ASTRONOMY	NOVEL QUANTUM PHENOMENA IN GEOMETRICALLY FRUSTRATED MAGNETS NEAR THE METAL-INSULATOR PHASE BOUNDARY
405	\$17,500	UNIVERSITIES RESEARCH ASSOC INC	Mahn, Kendall	PHYSICS-ASTRONOMY	COMBINED ABSORPTION & CHARGE EXCHANGE PION-ARGON CROSS SECTION USING PROTODUNE BEAM DATA
406	\$183,274	US DEPT OF ENERGY	Ruan, Chong-Yu	PHYSICS-ASTRONOMY	SYMMETRY-BREAKING MECHANISM AND METASTABLE STATES IN CHARGE-ORDERED SYSTEMS PROBED USING FEMTOSECOND ELECTRON DIFFRACTION AND SPECTROSCOPY

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
407	\$146,508	NATIONAL SCIENCE FOUNDATION	Tessmer, Stuart	PHYSICS-ASTRONOMY	REU SITE: RESEARCH EXPERIENCES FOR UNDERGRADUATES IN PHYSICS
408	\$100,000	NATIONAL SCIENCE FOUNDATION	Yuan, Chien-Peng	PHYSICS-ASTRONOMY	GLOBAL QCD ANALYSIS AND PRECISION ELECTROWEAK PHYSICS IN HIGH ENERGY COLLIDER PHENOMENOLOGY
409	\$31,345	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Zepf, Stephen	PHYSICS-ASTRONOMY	THE NATURE OF THE TWO GLOBULAR CLUSTER ULXS IN THE GALAXY NGC 4472
410	\$157,765	US DEPT OF ENERGY	Zhang, Pengpeng	PHYSICS-ASTRONOMY	MICROSCOPIC UNDERSTANDING OF THIN FILM GROWTH AND SUBSTRATE ENGINEERING OF ORGANIC CHARGE TRANSFER COMPLEXES
411	\$69,999	NATIONAL SCIENCE FOUNDATION	von Manteuffel, Andreas	PHYSICS-ASTRONOMY	MULTI-LOOP AMPLITUDES FOR PRECISION PHYSICS AT THE LHC
412	\$26,096	NATIONAL INST OF HEALTH	Crandall, Shane	PHYSIOLOGY NATURAL SCIENCE	DYNAMIC PROPERTIES OF CORTICOTHALAMIC CIRCUITS
413	\$417,490	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	ENTERIC GLIA AND VISCERAL PAIN
414	\$10,822	UNIVERSITY OF ALABAMA AT BIRMINGHAM	Leininger, Gina	PHYSIOLOGY NATURAL SCIENCE	SOMATOSTATIN BLOCKADE OF CNS AUTONOMIC HYPERACTIVITY FOR DIABETIC RETINOPATHY
415	\$335,339	NATIONAL INST OF HEALTH	Mazei-Robison, Michelle	PHYSIOLOGY NATURAL SCIENCE	NEUROBIOLOGICAL MECHANISMS UNDERLYING STRESS-INDUCED CHANGES IN OPIATE REWARD
416	\$45,016	NATIONAL INST OF HEALTH	Mohr, Susanne	PHYSIOLOGY NATURAL SCIENCE	DISRUPTION OF CD47 SIGNALING PROMOTES HEALING IN ISCHEMIC FRACTURES AND BONE ALLOGRAFTS
417	\$37,332	NATIONAL INST OF HEALTH	Perez-Bonilla, Patricia	PHYSIOLOGY NATURAL SCIENCE	ROLE OF VTA NEUROTENSIN RECEPTOR-1 EXPRESSING NEURONS IN ENERGY BALANCE
418	\$372,961	NATIONAL INST OF HEALTH	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	PROJECTION-SPECIFIC GENE EXPRESSION IN RESILIENCE TO CHRONIC STRESS
419	\$245,921	NATIONAL SCIENCE FOUNDATION	Brudvig, Lars	PLANT BIOLOGY CNS	LTREB RENEWAL: COLLABORATIVE RESEARCH: UNDERSTANDING THE STRENGTH, DURATION, AND STABILITY OF CONNECTIVITY EFFECTS ON COMMUNITY DIVERSITY
420	\$499,999	US DEPT OF ENERGY	Ding, Shiyu	PLANT BIOLOGY CNS	REAL-TIME IMAGING AND QUANTIFICATION OF PLANT CELL WALL CONSTITUENTS USING CAVITY-DUMPED STIMULATED RAMAN SCATTERING (CDSRS) MICROSCOPY
421	\$156,910	NATIONAL INST OF FOOD & AGRICULTURE	Haus, Miranda	PLANT BIOLOGY CNS	EFFECT OF ROOT AND SHOOT ARCHITECTURE ON SEED NUTRITION IN DRY BEAN
422	\$763,491	NATIONAL SCIENCE FOUNDATION	Lowry, David	PLANT BIOLOGY CNS	THE MECHANISMS OF ADAPTIVE SHIFTS IN ALLOCATION AMONG GROWTH, REPRODUCTION, AND DEFENSE

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
423	\$378,517	US DEPT OF ENERGY	Lowry, David	PLANT BIOLOGY CNS	IDENTIFICATION OF ADAPTIVE FUNGAL PATHOGEN RESISTANCE LOCI IN SWITCHGRASS
424	\$1,900,194	US DEPT OF ENERGY	Schnell, Danny	PLANT BIOLOGY CNS	A SYSTEMS APPROACH TO INCREASING CARBON FLUX TO SEED OIL FOR BIOFUELS AND BIOPRODUCTS PRODUCTION IN CAMELINA SATIVA
425	\$49,095	US DEPT OF AGRICULTURE	Trail, Frances	PLANT BIOLOGY CNS	RESISTANT AND SUSCEPTIBLE INTERACTIONS OF FUSARIUM GRAMINEARUM WITH WHEAT AND BARLEY
426	\$40,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Brandizzi, Federica	PLANT RESEARCH LABORATORY NAT SCIENCE	LIFE BEYOND EARTH: EFFECT OF SPACE FLIGHT ON SEEDS WITH IMPROVED NUTRITIONAL VALUE
427	\$499,526	NATIONAL SCIENCE FOUNDATION	Maiti, Tapabrata	STATISTICS & PROBABILITY	ATD: NEXT GENERATION STATISTICAL LEARNING THEORY AND METHODS FOR MULTIMODAL SPATIO-TEMPORAL DATA WITH APPLICATION TO COMPUTER VISION
428	\$87,400	RICE UNIV	Viens, Frederi	STATISTICS & PROBABILITY	STATISTICAL INFERENCE FOR STOCHASTIC PROCESSES WITH CORRELATIONS
	COLLEGE OF NURSING				
429	\$10,573	HEALTH RESOURCES & SERVICES ADMINISTRATION	Lourens, Gayle	NURSING	NURSE ANESTHETIST TRAINEESHIP
	COLLEGE OF OSTEOPATHIC MEDICINE				
430	\$35,152	UNIVERSITY OF CALIFORNIA SAN DIEGO	Bozoki, Andrea	NEUROLOGY AND OPHTHALMOLOGY COM	A SEAMLESS PHASE 2A-B RANDOMIZED DOUBLE-BLIND PLACEBO-CONTROLLED TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF BHV-4157 IN PATIENTS WITH MILD TO MODERATE ALZHEIMER'S DISEASE
431	\$5,108	INTEC PHARMA LTD	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	AN OPEN-LABEL, MULTI-CENTER, FOLLOW-UP STUDY DESIGNED TO EVALUATE THE LONG-TERM EFFECTS OF AP-CD/LD IN FLUCTUATING PARKINSON'S DISEASE SUBJECTS WHO COMPLETED STUDY IN 11 004
432	\$9,271	SUNOVION PHARMACEUTICALS	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	AN OPEN-LABEL, PHASE 3 STUDY EXAMINING THE LONG-TERM SAFETY, TOLERABILITY AND EFFICACY OF APL-130277 IN LEVODOPA RESPONSIVE PATIENTS WITH PARKINSON'S DISEASE COMPLICATED BY MOTOR FLUCTUATIONS ("OFF" E
433	\$22,620	REVANCE THERAPEUTICS INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL GROUP, MULTI-CENTER TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF A SINGLE TREATMENT OF DAXIBOTULINUMTOXINA FOR INJECTION IN ADULTS WIT
434	\$34,467	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Kaufman, David	NEUROLOGY AND OPHTHALMOLOGY COM	NEUROLOGY TELEMEDICINE PROJECT: AWARENESS & ACCESS TO CARE FOR CHILDREN & YOUTH WITH EPILEPSY

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
435	\$10,003	RA PHARMACEUTICALS INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 2, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY, TOLERABILITY, AND PRELIMINARY EFFICACY OF RA101495 IN SUBJECTS WITH GENERALIZED MYASTHENIA GRAVIS
436	\$7,000	NEUROCRINE BIOSCIENCES INC	Sidiropoulos, Christos	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 4, DOUBLE-BLIND, PLACEBO-CONTROLLED, RANDOMIZED WITHDRAWAL STUDY TO EVALUATE THE PERSISTENCE OF EFFECT AND SAFETY OF VALBENAZINE FOR THE TREATMENT OF TARDIVE DYSKINESIA
437	\$110,000	ROWAN UNIVERSITY	Nicodemus, Clarence	OSTEOPATHIC MANIPULATIVE MEDICINE	COST EFFECTIVENESS STUDY
438	\$51,804	UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	INTERDISCIPLINARY MALARIA RESEARCH TRAINING IN MALAWI
439	\$78,000	NORTHSTAR ANESTHESIA	Irfan, Furqan	OSTEOPATHIC MEDICINE DEAN	RETROSPECTIVE REVIEW OF SURGICAL OUTCOMES IN VETERANS AFFAIRS PATIENTS
440	\$9,195	LUNA INNOVATIONS	Bailie, Marc	PHARMACOLOGY TOXICOLOGY	CARBON NANOTUBE (CNT) TOLERANCE AND BIODISTRIBUTION IN MALE BALB/C MICE: ENHANCED HIV VACCINE BY CNT-ENABLED MUCOSAL DELIVERY
441	\$505,432	NATIONAL INST OF HEALTH	Dorrance, Anne	PHARMACOLOGY TOXICOLOGY	CEREBRAL PARENCHYMAL ARTERIOLE DYSFUNCTION AND COGNITIVE DECLINE IN A LIFE-LONG HIGH FAT FEEDING MODEL
442	\$45,016	NATIONAL INST OF HEALTH	Ferland, David	PHARMACOLOGY TOXICOLOGY	CHEMERIN STIMULATION OF VASCULAR FUNCTION IN SUPPORT OF BLOOD PRESSURE
443	\$78,667	UNIVERSITY OF MINNESOTA	Fink, Gregory	PHARMACOLOGY TOXICOLOGY	AFFERENT RENAL NERVES, RENAL INFLAMMATION, AND HYPERTENSION
444	\$18,495	SCRIPPS RESEARCH INST	Krieger-Burke, Teresa	PHARMACOLOGY TOXICOLOGY	ECHOCARDIOGRAPHY ASSESSMENT OF 3 BPN COMPOUNDS ADMINISTERED INTRAVENOUSLY TO MALE SPRAGUE-DAWLEY RATS 191VF105
445	\$376,331	NATIONAL INST OF HEALTH	Neubig, Richard	PHARMACOLOGY TOXICOLOGY	MECHANISM OF ACTION OF INHIBITORS OF MRTF/SRF-REGULATED GENE TRANSCRIPTION
446	\$179,229	NATIONAL INST OF HEALTH	Neubig, Richard	PHARMACOLOGY TOXICOLOGY	INTEGRATIVE PHARMACOLOGICAL SCIENCES TRAINING PROGRAM (IPSTP)
447	\$24,353	NATIONAL INST DIABETES & DIGESTIVE & KIDNEY DISEASES	Tykocki, Nathan	PHARMACOLOGY TOXICOLOGY	BLADDER BLOOD FLOW AND VASCULAR CONTRACTILITY REGULATE BLADDER FUNCTION
448	\$363,433	NATIONAL INST OF HEALTH	Tykocki, Nathan	PHARMACOLOGY TOXICOLOGY	TRPV1 MEDIATES PROGRESSIVE STRESS-INDUCED BLADDER DYSFUNCTION
449	\$99,999	AMER HEART ASSOC	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	CHEMERIN KNOCKDOWN AS A TREATMENT FOR OBESITY-ASSOCIATED HYPERTENSION

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
450	\$35,985	UNIVERSITY OF ARIZONA	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	IMPROVING INFORMAL CAREGIVERS' AND CANCER SURVIVORS' PSYCHOLOGICAL DISTRESS, SYMPTOM MANAGEMENT AND HEALTH CARE USE
COLLEGE OF SOCIAL SCIENCE					
451	\$45,699	UNIVERSITY OF SOUTH CAROLINA	Rojek, Jeffrey	CNTR ANTI COUNTERFEIT AND PROD PROTECT	AN EVALUATION OF A SOCIAL INTERACTION TRAINING PROGRAM TO REDUCE THE USE OF FORCE AND BUILD LEGITIMACY
452	\$352,129	NATIONAL SCIENCE FOUNDATION	Morash, Merry	CRIMINAL JUSTICE	COMMUNICATION BETWEEN PROBATION AND PAROLE AGENTS AND THEIR CLIENTS
453	\$16,850	UNIVERSITY OF SOUTH CAROLINA	Wolfe, Scott	CRIMINAL JUSTICE	AN EVALUATION OF A SOCIAL INTERACTION TRAINING PROGRAM TO REDUCE THE USE OF FORCE AND BUILD LEGITIMACY
454	\$223,847	NATIONAL SCIENCE FOUNDATION	Barnwal, Prabhat	ECONOMICS	COLLABORATIVE RESEARCH: INFORMAL RISK-SHARING AND PRIVATE INITIATIVE TO MITIGATE LOCAL ENVIRONMENTAL RISKS
455	\$375,000	MICHIGAN DEPT OF TECHNOLOGY MANAGEMENT & BUDGET	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	STATE OF MICHIGAN HISTORIC AERIAL IMAGERY ARCHIVE DIGITAL ACCESS
456	\$11,192	MICHIGAN APPLE COMMITTEE	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	CHARACTERIZATION OF COLD AIR MOVEMENT IN APPLE ORCHARDS USING THERMAL INFRARED DRONE IMAGERY AND HIGH-RESOLUTION TOPOGRAPHIC DATA
457	\$84,445	NATIONAL SCIENCE FOUNDATION	Dahlin, Kyla	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	MSB-ECA: ECOSYSTEMS IN FOUR DIMENSIONS: MEASURING CHANGES TO FOREST STRUCTURE AND FUNCTION IN THE ANTHROPOCENE
458	\$157,039	NORTHERN MICHIGAN UNIV	Gunn, Grant	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	COLLABORATIVE RESEARCH: THE CIRCUMPOLAR ACTIVE LAYER MONITORING NETWORK--CALM V (2019-2024): LONG-TERM OBSERVATIONS ON THE CLIMATE-ACTIVE LAYER-PERMAFROST SYSTEM
459	\$93,000	USDA FOREST SERVICE	Zhong, Shiyuan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	INVESTIGATING THE ROLE OF METEOROLOGICAL PROCESSES IN THE ASSESSMENT OF FIRE BEHAVIOR AND FIRE DANGER
460	\$59,275	USDA FOREST SERVICE	Zhong, Shiyuan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	MULTI-SCALE ANALYSES OF WILDLAND FIRE COMBUSTION PROCESSES IN OPEN-CANOPIED FORESTS USING COUPLED AND ITERATIVELY INFORMED LABORATORY-, FIELD-, AND MODEL-BASED APPROACHES (Y4) - MICHIGAN STATE UNIV
461	\$73,510	SOUTH DAKOTA STATE UNIV	Henebry, Geoffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	HOW ENVIRONMENTAL CHANGE IN CENTRAL ASIAN HIGHLANDS IMPACTS HIGH ELEVATION COMMUNITIES
462	\$465,661	ASIAN DEVELOPMENT BANK	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	LIVESTOCK VALUE CHAIN ASSESSMENT - ASSESSMENT OF THE RESOURCE BASE FOR THE DEVELOPMENT OF THE MEAT PRODUCTION VALUE CHAIN

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
463	\$256,352	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
464	\$29,685	UNIVERSITY OF MARYLAND	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	NASA LAND COVER LAND USE CHANGE (LCLUC) PROGRAM SCIENCE SUPPORT
465	\$115,264	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	AFRICA BURNED AREA PRODUCT GENERATION, QUALITY ASSESSMENT AND VALIDATION - DEMONSTRATING A MULTI-SOURCE LAND IMAGING (MUSLI) LANDSAT-8 SENTINEL-2 CAPABILITY
466	\$278,745	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
467	\$43,438	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
468	\$12,754	CORNELL UNIV	Tapia Y Van Maldeghem, Maite	HUMAN RESOURCES AND LABOR RELATIONS	YOUNG WORKERS AND WORKER INTEREST REPRESENTATION: A FIVE-COUNTRY COMPARATIVE ANALYSIS OF CASE-STUDY SUCCESS
469	\$51,802	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	BEHAVIORAL RISK FACTOR SURVEY (BRFS)
470	\$161,814	W K KELLOGG FOUNDATION	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	IMPROVING MICHIGAN POLICY MAKING AND GOVERNANCE BY EQUIPPING TOMORROW'S LEADERS
471	\$53,326	UNIVERSITY OF MICHIGAN	Weinfeld, Arnold	INST FOR PUBLIC POLICY SOCIAL RESEARCH	MATERNAL INFANT HEALTH PROGRAM (MIHP) - UNIVERSITY OF MICHIGAN
472	\$10,000	ROBERT & ARDIS JAMES FOUNDATION	Macdowell, Marsha	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	QUILT INDEX: OPERATIONAL SUPPORT
473	\$850,000	THE ANDREW W MELLON FOUNDATION	Rehberger, Dean	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	ENSLAVED: PEOPLE OF THE SLAVE TRADE
474	\$8,000	AMER POLITICAL SCIENCE ASSOC	Lemi, Danielle	POLITICAL SCIENCE	RECRUITING AND RETAINING FACULTY OF COLOR
475	\$259,765	GHANA CENTER FOR DEMOCRATIC DEVELOPMENT	Logan, Carolyn	POLITICAL SCIENCE	AFROBAROMETER ROUNDS 7 AND 8, MSU
476	\$597,764	NATIONAL INST OF HEALTH	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	FROM NEIGHBORHOOD DISADVANTAGE TO ANTISOCIAL BEHAVIOR: NEUROBIOLOGICAL PATHWAYS

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
477	\$12,654	NEW YORK UNIV	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	IN UTERO ASSESSMENT OF THE HUMAN NEURAL CONNECTOME AND LATER CHILD BEHAVIOR
478	\$81,832	RTI INTL	Campbell, Rebecca	PSYCHOLOGY SOCIAL SCIENCE	SEXUAL ASSAULT KIT INITIATIVE (SAKI) TRAINING AND TECHNICAL ASSISTANCE
479	\$254,463	NATIONAL SCIENCE FOUNDATION	Healey, Karl	PSYCHOLOGY SOCIAL SCIENCE	COMPCOG: THE ROLE OF CONTROL PROCESSES IN THE DYNAMICS OF EPISODIC MEMORY SEARCH
480	\$766,245	NATIONAL INST OF HEALTH	Klump, Kelly	PSYCHOLOGY SOCIAL SCIENCE	A TWIN STUDY OF ANDROGEN EFFECTS ON BINGE EATING RISK DURING PUBERTY IN MALES
481	\$560,201	NATIONAL INST OF HEALTH	Levendosky, Alytia	PSYCHOLOGY SOCIAL SCIENCE	TIMING OF PRENATAL STRESS AND INFANT REGULATORY FUNCTIONING
482	\$82,504	INDIANA UNIV	McAuley, J	PSYCHOLOGY SOCIAL SCIENCE	UNDERSTANDING SPEECH IN NOISE: THE ROLES OF AGING AND ATTENTIONAL ENTRAINMENT
483	\$60,854	NATIONAL INST OF HEALTH	Shewark, Elizabeth	PSYCHOLOGY SOCIAL SCIENCE	THE CONTEXT OF COMPETENCE: NEIGHBORHOOD, GENOTYPE, AND DEVELOPMENT
484	\$82,750	NATIONAL RESOURCE CENTER ON DOMESTIC VIOLENCE INC	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	HOUSING INNOVATIONS FOR DOMESTIC VIOLENCE SURVIVORS
485	\$382,294	NATIONAL INST OF HEALTH	Thakkar, Katharine	PSYCHOLOGY SOCIAL SCIENCE	UNCOVERING PATHOPHYSIOLOGICAL MECHANISMS OF PSYCHOSIS USING THE OCULOMOTOR SYSTEM.
486	\$380,231	NATIONAL INST OF HEALTH	Yan, Lili	PSYCHOLOGY SOCIAL SCIENCE	NEURAL BASIS OF LIGHT-DEPENDENT DEPRESSION AND ANXIETY
487	\$506,366	MICHIGAN DEPT OF TRANSPORTATION	Kassens Noor, Eva	SCHOOL OF PLANNING DES CONSTRUCTION CSS	IDENTIFICATION OF TRIP PURPOSE AND IMPROVING CUSTOMER SATISFACTION WITH TRANSIT EXPERIENCES IN MICHIGAN
488	\$100,000	MICHIGAN HEALTH ENDOWMENT FUND	Sun, Fei	SOCIAL WORK	ENHANCING THE QUALITY OF LIFE AMONG ELDERS FACING COGNITIVE DECLINE: THE EFFECTIVENESS OF A BODY MOVEMENT-BASED PSYCHOSOCIAL INTERVENTION
489	\$156,785	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	Carrera, Jennifer	SOCIOLOGY SOCIAL SCIENCE	ENGAGING COMMUNITY IN THE DEVELOPMENT OF LOW-COST TECHNOLOGIES FOR ENVIRONMENTAL MONITORING TO PROMOTE ENVIRONMENTAL HEALTH LITERACY IN A LOW-TRUST SETTING
490	\$74,646	NATIONAL INST OF HEALTH	Zhang, Zhenmei	SOCIOLOGY SOCIAL SCIENCE	MARITAL BIOGRAPHY AND RISK OF DEMENTIA IN THE UNITED STATES
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
491	\$317,307	US DEPT OF EDUCATION	Bellamy, Pamela	ADMIN SUPPORT MLK INITIATIVE	MSU TALENT SEARCH PROGRAM

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
492	\$11,400	ARIZONA STATE UNIV	Renn, Kristen	ASC PROVOST FOR UNDERGRADUATE EDUCATION	UIA FELLOWS, TRAVEL AND SCALING PROJECTS
493	\$424,861	US DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	MICHIGAN STATE UNIVERSITY COLLEGE ASSISTANCE MIGRANT PROGRAM (MSU CAMP)
494	\$758,616	US DEPT OF EDUCATION	Wiggins, Aurlis	SUPPORTIVE SERVICES PROGRAM	MICHIGAN STATE UNIVERSITY STUDENT SUPPORT SERVICES
COLLEGE OF VETERINARY MEDICINE					
495	\$499,821	NATIONAL INST OF FOOD & AGRICULTURE	Contreras, Andres	LARGE ANIMAL CLINICAL SCIENCES	OXIDIZED LINOLEIC ACID METABOLITES PRODUCED DURING LIPOLYSIS MODULATE ADIPOSE TISSUE METABOLIC FUNCTION IN PERIPARTURIENT DAIRY COWS
496	\$499,938	NATIONAL INST OF FOOD & AGRICULTURE	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	IMMUNE-MEDIATED ALTERATIONS IN GUT NUTRIENT TRANSPORT DURING STRESS: IMPLICATIONS FOR NUTRIENT UTILIZATION AND FEED EFFICIENCY IN PIGS
497	\$35,000	AMER SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS	Rapson Strachota, Julie	LARGE ANIMAL CLINICAL SCIENCES	PREVENTIVE VETERINARY MEDICINE FOR AT-RISK HORSES IN MICHIGAN
498	\$61,610	NATIONAL INST OF HEALTH	Hardy, Lauren	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	MECHANISMS OF FIBRIN(OGEN)-DIRECTED MACROPHAGE ACTIVATION IN LIVER TOXICITY
499	\$326,923	NATIONAL INST OF HEALTH	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	NOVEL ANTI-FIBROTIC MECHANISMS IN CHEMICAL-INDUCED LIVER INJURY
500	\$387,500	NATIONAL INST OF HEALTH	Meek, Katheryn	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	DEFINING THE MECHANISTIC BASIS OF ATM'S IMPACT ON VDJ RECOMBINATION
501	\$168,563	NATIONAL INST OF HEALTH	Meek, Katheryn	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	DOES OVEREXPRESSION OF DNA POLYMERASE THETA SENSITIZE CANCERS TO G-QUADRUPLEX BINDING DRUGS?
502	\$139,975	CANINE HEALTH FOUNDATION	Petroff, Brian	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	BREED SPECIFIC REFERENCE RANGES FOR CANINE THYROID TESTING
503	\$8,117	NATIONAL INST OF HEALTH	Atchison, William	PHARMACOLOGY TOXICOLOGY	ADMINISTRATIVE SUPPLEMENT: ENVIRONMENTAL METALS, EXCITOTOXICITY, AND ALS
504	\$350,000	UNIVERSITY OF CALIFORNIA IRVINE	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	USE OF SYSTEMS PHARMACOLOGY TO PREVENT ROD AND CONE PHOTORECEPTOR DEGENERATION
505	\$42,808	BIOTIME INC	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	TESTING NEUROPROTECTION IN PDE6A PUPPIES

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
506	\$40,800	FOOD & DRUG ADMINISTRATION	Reams, Rachel	VETERINARY DIAGNOSTIC LABORATORY	MICHIGAN STATE UNIVERSITY VDL VETLRN 2017
507	\$50,005	STATE OF MICHIGAN	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION
	FACILITY FOR RARE ISOTOPE BEAMS				
508	\$3,950,000	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS TRANSITION TO OPERATION AND OPERATION AS SCIENTIFIC USER FACILITY
509	\$1,580,646	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS (FRIB)
510	\$52,193	BROOKHAVEN SCIENCE ASSOC LLC	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	RESEARCH AT BROOKHAVEN NATIONAL LABORATORY FOR MICHAEL BALCEWICZ ON EXTENSION OF SQUARE WELL METHOD FOR ACCELERATOR RING WITH HIGH SPACE CHARGE AND WAKE FIELD
511	\$100,000	US DEPT OF ENERGY	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	6-D ANALYSIS OF NONLINEAR DYNAMICS USING SQUARE MATRIX METHOD
512	\$120,000	US DEPT OF ENERGY	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	DEVELOPMENT AND TEST OF SIMULATION TOOLS FOR EIC BEAM-BEAM INTERACTION
513	\$385,000	US DEPT OF ENERGY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	MSU TRAINEESHIP PROGRAM TO ADDRESS CRITICAL WORKFORCE NEEDS IN ACCELERATOR SCIENCE & ENGINEERING
514	\$200,000	NATIONAL SCIENCE FOUNDATION	Bogner, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	AB-INITIO NUCLEAR THEORY: FROM NUCLEI TO NEUTRON STARS
515	\$116,000	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Bogner, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR THEORY FOR DOUBLE BETA DECAY AND FUNDAMENTAL SYMMETRIES
516	\$110,000	NATIONAL SCIENCE FOUNDATION	Brown, B	NAT'L SUPERCONDUCTING CYCLOTRON LAB	APPLICATIONS OF NUCLEAR STRUCTURE THEORY
517	\$59,539	UHV TECHNOLOGIES INC	Cortesi, Marco	NAT'L SUPERCONDUCTING CYCLOTRON LAB	A SCALABLE ADDITIVE MANUFACTURING TECHNOLOGY FOR LARGE AREA PRINTED CIRCUIT BOARDS
518	\$120,000	US DEPT OF ENERGY	Danielewicz, Pawel	NAT'L SUPERCONDUCTING CYCLOTRON LAB	SYMMETRY ENERGY FROM NUCLEAR REACTIONS
519	\$10,000	INTEGRATED SENSORS LLC	Ginter, Thomas	NAT'L SUPERCONDUCTING CYCLOTRON LAB	HIGH PERFORMANCE SCINTILLATOR AND BEAM MONITORING SYSTEM

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
520	\$139,811	NATIONAL SCIENCE FOUNDATION	Gueye, Paul	NAT'L SUPERCONDUCTING CYCLOTRON LAB	COLLABORATION TO ENHANCE PARTICIPATION OF MINORITY AND UNDERGRADUATE STUDENTS IN NUCLEAR SCIENCE
521	\$6,000	JEFFERSON SCIENCE ASSOCIATES LLC	Gueye, Paul	NAT'L SUPERCONDUCTING CYCLOTRON LAB	JSA MINORITY/FEMALE UNDERGRADUATE RESEARCH ASSISTANTSHIP FOR MAYA WATTS
522	\$149,236	US DEPT OF ENERGY	Hergert, Heiko	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ADVANCED MANY-BODY METHODS FOR NUCLEAR STRUCTURE
523	\$15,000	NANOSONIC INC	Landre Ep Pellemoine, Frederiqu	NAT'L SUPERCONDUCTING CYCLOTRON LAB	LONG-TERM RADIATION RUGGED ROTARY VACUUM AND WATER SEALS IN HEAVY-ION ACCELERATORS
524	\$275,000	US DEPT OF ENERGY	Lynch, William	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ASYMMETRIC NUCLEAR MATTER UNDER EXTREME CONDITIONS
525	\$65,279	LOS ALAMOS NATL LABORATORY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY FELLOW
526	\$720,000	US DEPT OF ENERGY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY ALLIANCE
527	\$20,460	LAWRENCE LIVERMORE NATIONAL LABORATORY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	COURSE 6: THEORY FOR EXPLORING NUCLEAR REACTION EXPERIMENTS
528	\$377,000	US DEPT OF ENERGY	Nazarewicz, Witold	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR COMPUTATIONAL LOW ENERGY INITIATIVE (NUCLEI)
529	\$2,280,000	NATIONAL SCIENCE FOUNDATION	Schatz, Hendrik	NAT'L SUPERCONDUCTING CYCLOTRON LAB	SUPPLEMENT TO JINA CENTER FOR THE EVOLUTION OF THE ELEMENTS
530	\$70,000	US DEPT OF ENERGY	Singh, Jaideep	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ELECTRIC FIELD & ATOMIC BEAM DEVELOPMENT FOR THE LASER TRAP RA-225 EDM EXPERIMENT
531	\$150,000	US DEPT OF ENERGY	Singh, Jaideep	NAT'L SUPERCONDUCTING CYCLOTRON LAB	TOWARDS A NEXT GENERATION SEARCH FOR TIME-REVERSAL VIOLATION USING OPTICALLY ADDRESSABLE NUCLEI IN CRYOGENIC SOLIDS
532	\$65,729	NATIONAL SCIENCE FOUNDATION	Spyrou, Artemisia	NAT'L SUPERCONDUCTING CYCLOTRON LAB	CAREER: BETA-DECAY EXPERIMENTS TO CONSTRAIN ASTROPHYSICAL PROCESSES

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
533	\$206,000	US DEPT OF ENERGY	Tsang, Man-Yee	NAT'L SUPERCONDUCTING CYCLOTRON LAB	CONSTRAINING THE EQUATION OF STATE OF DENSE NEUTRON-RICH MATTER
534	\$513,239	LAWRENCE BERKELEY NATIONAL LABORATORY	Weisshaar, Dirk	NAT'L SUPERCONDUCTING CYCLOTRON LAB	MANAGEMENT SUPPORT WITHIN THE GRETA DETECTOR ACTIVITY
535	\$150,000	US DEPT OF ENERGY	Wrede, Christopher	NAT'L SUPERCONDUCTING CYCLOTRON LAB	CRITICAL THERMONUCLEAR REACTIONS IN CLASSICAL NOVAE AND TYPE I X-RAY BURSTS
PROVOST AND ACADEMIC AFFAIRS					
536	\$6,875	ARTS COUNCIL OF GREATER LANSING	Word, Michelle	ART MUSEUM	2019 INGHAM COUNTY HOTEL/MOTEL GRANT
ASC PROVOST FOR ACADEMIC SERVICES					
537	\$2,828,698	US DEPT OF EDUCATION	Shipman, Rick	FINANCIAL AID	FEDERAL WORKSTUDY
ASC PROV FOR UNIV OUTREACH & ENGAGEMENT					
538	\$250,000	COUNCIL OF MICHIGAN FOUNDATIONS	Fitzgerald, Hiram	UNIV OUTREACH & ENGAGEMENT - ADMIN	TRUTH, RACIAL HEALING, TRANSFORMATION (TRHT) LANSING
INTERNATIONAL STUDIES AND PROGRAMS					
539	\$21,545	PEACE CORPS	Glew, Robert	CTR FOR ADV STUDY OF INTL DEVELOP ISP	MSU PEACE CORPS RECRUITING OFFICE
540	\$1,982,468	FEDERAL REPUBLIC OF NIGERIA	Effiong, Chinwe	INTERNATIONAL STUDIES AND PROGRAMS DEAN	NIGERIAN CAPACITY BUILDING PROGRAM (NECAP)
MSU AGBIORESEARCH					
541	\$41,685	CHONBUK NATIONAL UNIVERSITY	Gondro, Cedric	ANIMAL SCIENCE DEPARTMENT MABR	GENETIC IMPROVEMENT USING ARTIFICIAL INTELLIGENCE METHODOLOGY
542	\$45,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Zarnetske, Phoebe	FISHERIES AND WILDLIFE MABR	PREDICTING FRESHWATER BIODIVERSITY ACROSS SCALES USING MEASURES OF LAND USE, CLIMATE, AND PRIMARY PRODUCTIVITY
543	\$1,783,041	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
September 2019

	Amount	Sponsor	Director	Unit	Purpose
544	\$79,058	BEET SUGAR DEVELOPMENT FOUNDATION	Hammerschmidt, R	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS TO COVER FIELD RESEARCH TECHNICIAN SALARY
545	\$17,701	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 04/01/2019 TO 60/30/2019
546	\$53,103	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 7/1/2018 TO 3/31/2019
547	\$18,900	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	LOW TUNNEL VOLATILITY EVALUATION OF ROUNDUP XTEND II AND ROUNDUP XTEND II COMPLETE ALONE AND IN COMBINATION WITH LIBERTY
548	\$35,000	FMC CORP	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	BURNS PSM TESTING
549	\$18,900	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	LOW TUNNEL VOLATILITY EVALUATION OF ROUNDUP XTEND II AND XTENDIMAX ALONE AND IN COMBINATION WITH LIBERTY
MICHIGAN STATE UNIVERSITY EXTENSION					
550	\$13,522	MICHIGAN CRAFT BEVERAGE COUNCIL	Baas, Dean	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF CEREAL RYE VARIETIES FOR THE MICHIGAN CRAFT DISTILLING INDUSTRY
551	\$54,927	FOREIGN AGRICULTURAL SERVICE	Bates, Ronald	EXTENSION AGRICULTURE AND AGRIBUSINESS	COCHRAN FELLOWSHIP PROGRAM -- NIGERIA FARM MANAGEMENT
552	\$10,586	MICHIGAN APPLE COMMITTEE	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	USING SAP ANALYSIS FOR HONEYCRISP NUTRITION AND BITTER PIT MANAGEMENT
553	\$10,000	MICHIGAN APPLE COMMITTEE	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	APPLE MATURITY MANIPULATION - USE OF RETAIN, HARVISTA AND ETHREL
554	\$5,520	MICHIGAN APPLE COMMITTEE	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	DRAPENET EVALUATION FOR INCREASED FRUIT QUALITY PARAMETERS
555	\$10,000	MICHIGAN APPLE COMMITTEE	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF MULTIPLE LEADER HIGH DENSITY APPLE TRAINING SYSTEMS 2019
556	\$6,000	EASTMAN CHEMICAL PRODUCTS	Nagelkirk, Martin	EXTENSION AGRICULTURE AND AGRIBUSINESS	TESTING OF TAMINCO SUBSIDIARY OF EASTMAN CHEMICAL PRODUCTS IN FIELD RESEARCH
557	\$21,981	US DEPT OF AGRICULTURE	Nagelkirk, Martin	EXTENSION AGRICULTURE AND AGRIBUSINESS	INTEGRATED MANAGEMENT OF FHB AND DON IN SOFT WINTER WHEAT IN MICHIGAN

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
558	\$7,400	MICHIGAN CHERRY COMMITTEE	Pochubay, Emily	EXTENSION AGRICULTURE AND AGRIBUSINESS	MATING DISRUPTION: A NOVEL MANAGEMENT APPROACH FOR SAN JOSE SCALE IN MICHIGAN SWEET CHERRIES
559	\$18,000	MICHIGAN CHERRY COMMITTEE	Rothwell, Nikki	EXTENSION AGRICULTURE AND AGRIBUSINESS	MODIFYING TREE CANOPIES TO REDUCE SPOTTED WING DROSOPHILA (SWD) POPULATIONS IN MICHIGAN TART CHERRY
560	\$9,124	MICHIGAN APPLE COMMITTEE	Rothwell, Nikki	EXTENSION AGRICULTURE AND AGRIBUSINESS	EXPLORING TRADITIONAL AND ALTERNATIVE CONTROL OPTIONS FOR BLACK STEM BORER
561	\$5,252	MICHIGAN APPLE COMMITTEE	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF MAIA APPLE GERMPLASM
562	\$8,440	MICHIGAN APPLE COMMITTEE	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF APPLE GERMPLASM FOR THE FRESH AND PROCESSING INDUSTRIES
563	\$146,413	NATIONAL PESTICIDE SAFETY EDUCATION CENTER	Smith, Thomas	EXTENSION AGRICULTURE AND AGRIBUSINESS	NATIONAL PESTICIDE SAFETY EDUCATION CENTER EXECUTIVE DIRECTOR
564	\$9,000	NATIONAL ASSOC OF STATE DEPT OF AG	Tocco, Phillip	EXTENSION AGRICULTURE AND AGRIBUSINESS	FSMA ON-FARM READINESS REVIEW TRAINING DEVELOPMENT AND DELIVERY
565	\$9,000	NATIONAL ASSOC OF STATE DEPT OF AG	Tocco, Phillip	EXTENSION AGRICULTURE AND AGRIBUSINESS	SUB AWARD FOR THE UNITED STATES FOOD AND DRUG ADMINISTRATION COOPERATIVE AGREEMENT
566	\$9,799	BATTLE CREEK COMMUNITY FOUNDATION	Courtade, Catherine	EXTENSION CHILDREN AND YOUTH	2019 CREATIVE & EXPRESSIVE ARTS PROGRAM
567	\$46,110	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
568	\$60,000	NATIONAL 4H COUNCIL	Wibby, Brian	EXTENSION CHILDREN AND YOUTH	NATIONAL MENTORING PROGRAM 9 TRAINING AND TECHNICAL ASSISTANCE (NMP 9 TTA)
569	\$8,143	GREAT OAK INC	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	TRIALING DEERPRO SPRING & SUMMER AND PLANTSKEYDD REPELLENTS TO CONTROL WHITE-TAILED DEER DEPREDATION OF SOYBEANS
570	\$38,566	MICHIGAN CRAFT BEVERAGE COUNCIL	Sirrime, J	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	INVESTIGATING THE TERROIR-INFLUENCED QUALITY ATTRIBUTES OF HOPS (HUMULUS LUPULUS)

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
571	\$15,000	MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY	Weber, Robert	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	2019-2020 HOUSING EDUCATION PROGRAM (HEP)
572	\$5,025	NORTHERN HEALTH PLAN	Daniels, Pamela	EXTENSION HEALTH AND NUTRITION	NAVIGATING THE FOOD PANTRY WITH DIABETES
573	\$1,300,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Dwyer, Jeffrey	EXTENSION HEALTH AND NUTRITION	SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM - EDUCATION FY2019
574	\$10,000	GRAND TRAVERSE BAND OF OTTAWA & CHIPPEWA INDIANS	Eichberger, Sarah	EXTENSION HEALTH AND NUTRITION	FOODCORPS IN NORTHWEST MICHIGAN: A SYSTEMS APPROACH TO CHILDHOOD OBESITY PREVENTION.
575	\$9,873	CLEMSON UNIV	Galdamez, Imelda	EXTENSION HEALTH AND NUTRITION	EXPANDED FOOD & NUTRITION EDUCATION WEBNEERS
576	\$34,238	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Stelter, Gretchen	EXTENSION HEALTH AND NUTRITION	SHAWONO/MDHHS/MICHIGAN REHABILITATIVE SERVICES (MRS) CLASSES FOR RESIDENCE
577	\$70,948	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	CLIMATE RESILIENCE FROM THE YOUTH UP: A PLACE-BASED STRATEGY UNITING HIGH SCHOOL STUDENTS, EDUCATORS, SCIENTISTS, RESIDENTS, COMMUNITY ORGANIZATIONS, AND MUNICIPALITIES IN SOUTHEAST MICHIGAN
578	\$30,542	BOWLING GREEN UNIV	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	COMMUNITY-ENGAGED SCHOLARSHIP TRAINING FOR SCIENTISTS AND STAKEHOLDERS
579	\$12,321	MICHIGAN DEPT OF TRANSPORTATION	Badra, Peter	NATURAL FEATURES INVENTORY MSUE	MDOT MUSSEL RELOCATION SITE SELECTION - BLACK RIVER, SANILAC COUNTY
580	\$430,000	US DEPT OF THE INTERIOR	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	PRAIRIE SPECIES CONSERVATION, HABITAT MANAGEMENT, AND CAPTIVE REARING
581	\$13,311	MICHIGAN DEPT OF TRANSPORTATION	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	MDOT INVASIVE SPECIES SURVEYS AND MITIGATION
582	\$40,000	US DEPT OF AGRICULTURE	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	MODIFICATION TO PD 32412/RC107413 HURON MANISTEE BOTANY SURVEYS 2017
583	\$49,114	MICHIGAN DEPT OF TRANSPORTATION	Klatt, Brian	NATURAL FEATURES INVENTORY MSUE	MDOT ANNUAL ACCESS TO NATURAL HERITAGE DATABASE
584	\$5,366	DLZ CORP	Lee, Yu	NATURAL FEATURES INVENTORY MSUE	EASTERN MASSASAUGA POPULATION ESTIMATE STUDY AT CAMP GRAYLING (DLZ)
585	\$22,000	PICKLE PACKERS INTL INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	DOWNY MILDEW ON PICKLING CUCUMBERS: ADVANCING DIAGNOSTICS FOR MICHIGAN GROWERS
586	\$13,333	PICKLE PACKERS INTL INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	A FIVE-YEAR PLAN TO IMPROVE EARLY DETECTION AND MANAGEMENT OF CUCUMBER DOWNY MILDEW

Gift, Grant and Contract Report
Board of Trustees
September 2019

	Amount	Sponsor	Director	Unit	Purpose
587	\$45,100	MICHIGAN SUGARBEET ADVANCEMENT	Kells, James	PLANT SOIL AND MICROBIAL SCIENCES	SALARY AND FRINGE FOR RG072614 BUBL
588	\$24,439	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Beyea, Wayne	SCHL OF PLANNING,DESIGN&CNST-MSUE	CLIMATE AND HEALTH COLLABORATION
RESEARCH AND INNOVATION					
589	\$1,135,958	CENTERS FOR DISEASE CONTROL & PREVENTION	Reed, Philip	CLINICAL AND TRANSLATIONAL SCIENCES	DATA COORDINATING CENTER (DCC) FOR SEED 1, SEED 2, AND. SEED 3
590	\$18,750	SOCIETY OF TOXICOLOGY	Atchison, William	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	2019 SUMMER UNDERGRADUATE RESEARCH PROGRAM
591	\$338,860	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	LaPres, John	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	MULTIDISCIPLINARY TRAINING IN ENVIRONMENTAL TOXICOLOGY
592	\$47,783	VARIOUS INDUSTRIES	Hasemann, Charles	MSU INNOVATION CENTER	FEE FOR SERVICE - INDUSTRY
593	\$300,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	COMPETITIVE DISCRETIONARY FUNDING/DISCRETIONARY FUNDING INITIATIVE (RG074715)
594	\$300,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	HUMANITIES AND ARTS RESEARCH PROGRAM (HARP) - RG073699
595	\$320,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	TARGETED SUPPORT GRANTS FOR TECHNOLOGY DEVELOPMENT (RG074704)
596	\$11,834	US GEOLOGICAL SURVEY	Dewitt, David	RESEARCH TECHNOLOGY SUPPORT FACILITY	METAGENOMIC SEQUENCING
UNIVERSITY ADVANCEMENT					
597	\$30,787,741	VARIOUS DONORS - ADVANCEMENT	Heil, Marti	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD APRIL 1 - JUNE 30, 2019
FINANCE					
598	\$8,576,766	VARIOUS GRANTORS	Pedawi, Evonne	SPONSORED PROGRAMS ADMIN CGA POSTAWARD	FEE FOR SERVICE - OTHER
PRESIDENT					
599	\$6,886	MICHIGAN STATE POLICE	Dunlap, James	DEPARTMENT OF POLICE AND PUBLIC SAFETY	IN SERVICE TRAINING OF POLICE OFFICERS

**Gift, Grant and Contract Report
Board of Trustees
September 2019**

	Amount	Sponsor	Director	Unit	Purpose
	GENERAL UNIVERSITY ITEMS				
600	\$128,533	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	COUNSELING AND PSYCHIATRIC SERVICES	SEXUAL ASSAULT VICTIM SERVICES 2019
	VARIOUS				
601	\$275,840	VARIOUS	Various	Various	111 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION
	\$156,054,937	Total September 2019 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
September 6, 2019

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Africana Library Collections	Brigitte Freed	Libraries	\$876,920.00	Research in Africana Collections
2	Cisco collaboration hardware, software & licensing; Cisco video room-kit minis and Webex	Cisco Systems, Inc.	Eli Broad College of Business	\$565,115.00	Enhanced academic experience by supporting collaboration and digital education.
3	Unlimited Access to TTPRO market data and TTPro for 1 year	Trading Technologies	Statistics	\$544,320.00	Enhanced academic experience by supporting collaboration and digital education.
4	63 rare books and manuscripts	Robert C Thomas	Libraries	\$76,781.00	Research in Special Collections
5	Spartan boxes and shipper boxes	Packaging Corporation of America	Intercollegiate Athletics / Spartan Fund	\$19,617.60	Mailing out suite & club tickets to donors.
6	Air transportation	Phil Hickey	Intercollegiate Athletics / Spartan Fund	\$19,378.90	Transport football staff to events
7	Furniture for Jenison Field House	Joseph Marx	Intercollegiate Athletics / Spartan Fund	\$15,301.48	Furniture for Jenison Field renovations
8	Air transportation	Mike McNamara	Intercollegiate Athletics / Spartan Fund	\$8,086.48	Recruiting trip for Coach Izzo
9	Whirlpool appliances 2 – Refrigerators 1 – Dishwasher 2 – Microwaves 2 – Kitchen toasters 1 – Ice maker	Whirlpool Corporation	Center for Spartan Engineering – Undergraduate Programs	\$7,600.00	Donation in support of the Center for Spartan Engineering Student Engagement Area

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
10	Maintenance, upgrades & repair of athletic locker rooms and related athletic spaces for 2018-2019	Oakwood Sports	Intercollegiate Athletics / Spartan Fund	\$7,560.00	Maintenance, upgrades & repair work for athletics.
11	Air transportation	Mike McNamara	Intercollegiate Athletics / Spartan Fund	\$6,349.17	Recruiting trip for Coach Izzo
12	Air transportation	Mike McNamara	Intercollegiate Athletics / Spartan Fund	\$6,240.64	Recruiting trip for Coach Izzo
13	Accommodations for Men's Golf Team	Willa Thiess	Intercollegiate Athletics / Spartan Fund	\$5,196.00	Rooms needed for hosted golf tournament in Bluffton, South Carolina
14	Supplies for J750 3D Stratasys printer	Stratasys	Biomedical Engineering	\$5,156.00	Creating 3d heart models for surgical planning
15-87	Various	Various	Various	\$59,830.90	73 Consolidated non-cash gifts for individual values less than \$5,000 Details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2 East Lansing, MI
			TOTAL	\$2,223,453.17	