

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

447

\$9,339,341	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	6203000
<b>118608</b>	IOWA GENERAL SMITH-LEVER FGO FOR FY 2012	
	10/1/11 to 9/30/16 EXTENSION/PUBLIC	
	KRESS, CATHANN EXTENSION ADMINISTRATION-EXT	
\$5,383,470	DOE-U.S. DEPARTMENT OF ENERGY	4012501
<b>93016</b>	OPERATING AND MANAGEMENT SUPPORT FOR THE AMES LABORATORY	
	11/1/08 to 12/31/15 RESEARCH	
	KING, ALEXANDER AMES LABORATORY	
\$1,519,419	NSF-NATIONAL SCIENCE FOUNDATION	4204041
<b>106606</b>	GEPR: FUNCTIONAL STRUCTURAL DIVERSITY AMONG MAIZE HAPLOTYPES	
	3/15/11 to 2/28/13 RESEARCH	
	SCHNABLE, PATRICK AGRONOMY-AES/CALS	
CO-PI	NETTLETON, DANIEL STATISTICS-LAS	
CO-PI	LAWRENCE, CAROLYN GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS	
\$1,086,550	NSF-NATIONAL SCIENCE FOUNDATION	4206182
<b>92539</b>	GEPR COMPARATIVE EVOLUTIONARY GENOMICS OF COTTON	
	3/1/09 to 2/28/14 RESEARCH	
	WENDEL, JONATHAN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS	
CO-PI	LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS	
\$951,914	NIH-NATIONAL INSTITUTES OF HEALTH	4302320
<b>107209</b>	CHARACTERIZATION OF IMMUNOGENIC AND STRUCTURAL PROPERTIES OF HIV-1 ENVELOPE	
	5/1/12 to 4/30/13 RESEARCH	
	CHO, MICHAEL BIOMEDICAL SCIENCES-VET	
\$768,000	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	4164091
<b>118007</b>	A POLICY RESEARCH CENTER PROPOSAL: THE CENTER FOR AGRICULTURAL AND RURAL DEVELOPMENT AT IOWA STATE UNIVERSITY	
	4/15/12 to 4/14/14 RESEARCH	
	KLING, CATHERINE ECONOMICS-AES/CALS	
CO-PI	BABCOCK, BRUCE ECONOMICS-AES/CALS	
CO-PI	HAYES, DERMOT ECONOMICS-AES/CALS	

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

448

\$768,000 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

4164091

**118007** A POLICY RESEARCH CENTER PROPOSAL: THE CENTER FOR AGRICULTURAL AND RURAL DEVELOPMENT AT IOWA STATE UNIVERSITY

4/15/12 to 4/14/14 RESEARCH

CO-PI HENNESSY, DAVID ECONOMICS-AES/CALS

CO-PI JENSEN, HELEN ECONOMICS-AES/CALS

CO-PI MOSCHINI, GIANCARLO ECONOMICS-AES/CALS

CO-PI OTTO, DANIEL ECONOMICS-AES/CALS

\$700,000 USDA-RURAL DEVELOPMENT (RD)

4123013

**117598** AGRICULTURAL MARKETING RESOURCE CENTER

3/1/12 to 5/31/13 EXTENSION/PUBLIC

HANSEN, RAYMOND VALUE ADDED AGRICULTURE-EXT

\$600,000 NATIONAL ACADEMIES

4281713

**117818** SHRP2 FOR PROJECT RO2: GEOTECHNICAL SOLUTIONS FOR SOIL IMPROVEMENT, RAPID EMBANKMENT CONSTRUCTION, AND STABILIZATION OF THE PAVEMENT WORKING PLATFORM

9/25/07 to 12/31/14 RESEARCH

SCHAEFER, VERNON CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

CO-PI WHITE, DAVID CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

CO-PI NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

\$500,000 EPA-U.S. ENVIRONMENTAL PROTECTION AGENCY

4294001

**115400** COLLABORATIVE RESEARCH ON PRODUCING AND CHARACTERIZING A BIOSURFACTANT WITH POTENTIALLY LOWER ENVIRONMENTAL IMPACT FOR SALT WATER APPLICATIONS

4/1/12 to 3/31/15 RESEARCH

LAMSAL, BUDDHI FOOD SCIENCE & HUMAN NUTRITION-AES/CALS

\$496,465 NIH-NATL INST OF ALLERGY & INFECTIOUS DISEASES (NIAID)

4304001

**116936** DISSECTING THE STRUCTURE AND FUNCTION OF THE PDU MICROCOMPARTMENT IN SALMONELLA

5/1/12 to 4/30/13 RESEARCH

BOBIK, THOMAS BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS

\$468,500 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

4164092

**114818** ENHANCED BIOINFORMATICS TO IMPLEMENT GENOMIC SELECTION (E-BIGS)

5/1/12 to 4/30/14 RESEARCH

GARRICK, DORIAN ANIMAL SCIENCE-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

449

\$468,500 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA) 4164092

**114818** ENHANCED BIOINFORMATICS TO IMPLEMENT GENOMIC SELECTION (E-BIGS)

5/1/12 to 4/30/14 RESEARCH

CO-PI DEKKERS, JACK ANIMAL SCIENCE-AES/CALS  
CO-PI FERNANDO, ROHAN ANIMAL SCIENCE-AES/CALS  
CO-PI REECY, JAMES ANIMAL SCIENCE-AES/CALS  
CO-PI ROTHSCHILD, MAX ANIMAL SCIENCE-AES/CALS

\$435,000 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA) 4164126

**115308** MODIFICATION OF A BT TOXIN FOR SOYBEAN APHID RESISTANCE

4/15/12 to 4/14/15 RESEARCH

BONNING, BRYONY ENTOMOLOGY-AES/CALS  
CO-PI CHOUGULE, NANASAHEB ENTOMOLOGY-AES/CALS

\$380,000 IOWA DEPARTMENT OF TRANSPORTATION 4747807

**118609** BOONE COUNTY EXPO RESEARCH PHASE 1-GRANULAR ROAD COMPACTION AND STABILIZATION

3/14/12 to 12/31/12 RESEARCH

WHITE, DAVID CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR  
CO-PI NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

\$375,000 NSF-NATIONAL SCIENCE FOUNDATION 4206082

**117127** CPS: MEDIUM: COLLABORATIVE RESEARCH: THE CYBERPHYSICAL CHALLENGES OF TRANSIENT STABILITY AND SECURITY IN POWER GRIDS

1/1/12 to 8/31/14 RESEARCH

DOBSON, IAN ELECTRICAL & COMPUTER ENGINEERING-ENGR

\$331,925 KEMIN INDUSTRIES 4004366

**118436** DEVELOPMENT OF SPECIALTY CROP HARVESTER

5/1/12 to 5/31/14 RESEARCH

BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS  
CO-PI STEWARD, BRIAN AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

450

\$328,526 NIH-NATIONAL INSTITUTES OF HEALTH 4302318

**113402** CHOLINERGIC RECEPTORS AS TARGETS FOR ACCELERATED ANTHELMINTIC DRUG DISCOVERY

5/15/12 to 4/30/13 RESEARCH  
KIMBER, MICHAEL BIOMEDICAL SCIENCES-VET

\$319,600 NIH-NATIONAL INSTITUTES OF HEALTH 4301721

**111184** OXIDATIVE STRESS INDUCED COMPENSATORY PROTECTIVE MECHANISMS IN PARKINSON'S DISEASE

6/1/11 to 3/31/13 RESEARCH  
KANTHASAMY, ANUMANTHA BIOMEDICAL SCIENCES-VET

\$275,195 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA) 4162306

**115050** AN EXAMINATION OF ARGON GAS FOR ON-FARM ANESTHESIA AND EUTHANASIA OF LIVESTOCK

4/1/12 to 3/31/16 RESEARCH  
MILLMAN, SUZANNE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI DEWELL, GRANT VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI DEWELL, RENEE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI SHEARER, JAN VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI OCONNOR, ANNETTE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI KARRIKER, LOCKE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI BUTTERS-JOHNSON, ANNA ANIMAL SCIENCE-AES/CALS  
CO-PI XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

\$248,999 NIH-NATIONAL INSTITUTES OF HEALTH 4304611

**106914** GLUTATHIONE S-TRANSFERASE SIGNALING IN VCD-INDUCED OVOTOXICITY

5/1/12 to 4/30/13 RESEARCH  
KEATING, AILEEN ANIMAL SCIENCE-AES/CALS

\$233,347 DOD-AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR) 4212029

**117787** HYBRID FS/PS CARS AND QUASI-CONTINUOUS BURST-MODE IMAGING FOR INVESTIGATING TURBULENT COMBUSTION DYNAMICS

4/15/12 to 4/14/15 RESEARCH  
MEYER, TERRENCE MECHANICAL ENGINEERING-ENGR

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

451

\$232,790 NSF-NATIONAL SCIENCE FOUNDATION

4206116

**111247** ROLE OF RNS2 IN RIBOSOME RECYCLING VIA RIBOPHAGY

4/1/11 to 3/31/15 RESEARCH

MACINTOSH, GUSTAVO BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS  
CO-PI BASSHAM, DIANE GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

\$207,623 DARTMOUTH COLLEGE

4041722

**96282** FACTORS INFLUENCING THE HEALTH BEHAVIORS OF YOUNG AFRICAN AMERICAN ADULTS

7/1/08 to 12/31/12 RESEARCH

CUTRONA, CAROLYN PSYCHOLOGY-LAS

\$188,231 NIH-NATIONAL INSTITUTES OF HEALTH

4302353

**115145** POTENTIATING ANTIBIOTICS AGAINST CAMPYLOBACTER BY INHIBITING EFFLUX

5/1/12 to 4/30/13 RESEARCH

ZHANG, QIJING VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

\$160,524 DOD-U.S. DEPARTMENT OF DEFENSE

4214004

**117048** ENHANCING THE EFFICACY OF PYRETHROID INSECTICIDES AGAINST MOSQUITOES USING PLANT ESSENTIAL OILS AND INDIVIDUAL TERPENOID

4/1/12 to 3/30/15 RESEARCH

COATS, JOEL ENTOMOLOGY-AES/CALS  
CO-PI BARTHOLOMAY, LYRIC ENTOMOLOGY-AES/CALS

\$156,326 RUTGERS UNIVERSITY

4042194

**98367** UNDERSTANDING AND COMBATING THE FIRE-ENHANCING IMPACT OF NON-NATIVE ANNUALS IN DESERT SCRUB THROUGH THE TOOLS OF POPULATION AND LANDSCAPE ECOLOGY

2/19/10 to 2/18/14 RESEARCH

MOLONEY, KIRK ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

\$147,623 NSF-NATIONAL SCIENCE FOUNDATION

4206604

**106189** STRUCTURAL INTERPRETATION OF PROTEIN INTERACTOMES

8/1/10 to 7/31/13 RESEARCH

JERNIGAN, ROBERT BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

452

\$140,000 NSF-NATIONAL SCIENCE FOUNDATION

4207115

**105529** NEW STRATEGY FOR CONTROLLED RELEASE OF LIPOSOMAL CONTENTS

7/15/10 to 6/30/13 RESEARCH

CO-PI ZHAO, YAN CHEMISTRY-LAS  
HONG, MEI CHEMISTRY-LAS

\$135,253 NATIONAL PORK BOARD

4534049

**117066** INFLUENCE OF COMMERCIAL DEEP CHILLING PROCESSES ON EARLY POSTMORTEM EVENTS IN MUSCLE THAT AFFECT ULTIMATE FRESH PORK TENDERNESS AND PROCESSING QUALITY

7/1/12 to 6/30/13 RESEARCH

CO-PI LONERGAN, STEVEN ANIMAL SCIENCE-AES/CALS  
LONERGAN, ELISABETH ANIMAL SCIENCE-AES/CALS  
CO-PI SEBRANEK, JOSEPH ANIMAL SCIENCE-AES/CALS  
CO-PI PRUSA, KENNETH FOOD SCIENCE & HUMAN NUTRITION-HS

\$121,348 SAMUEL ROBERTS NOBLE FOUNDATION

4044056

**115006** METABOLOMICS: ADVANCING THE SCIENTIFIC PROMISE TO BETTER UNDERSTAND PLANT SPECIALIZED METABOLISM FOR LOW-CARBON SOCIETY

2/1/12 to 11/30/14 RESEARCH

NIKOLAU, BASIL BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS

\$112,380 SYNGENTA SEEDS INC

4004883

**118281** CORN PESTS RESEARCH PROJECT

3/1/12 to 4/30/13 RESEARCH

CO-PI GASSMANN, AARON ENTOMOLOGY-AES/CALS  
WEBER, PATRICK ENTOMOLOGY-AES/CALS

\$107,511 NORTH CENTRAL SOYBEAN RESEARCH

4594052

**116913** SCREENING FOR GENETIC RESISTANCE AGAINST SOYBEAN VIRUSES

3/1/12 to 2/28/13 RESEARCH

CO-PI HILL, JOHN PLANT PATHOLOGY-AES/CALS  
WHITHAM, STEVEN PLANT PATHOLOGY-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

453

\$100,000 BILL & MELINDA GATES FOUNDATION 4002168

**116961** DNA NANOMACHINE FOR PATHOGEN DIAGNOSTICS

5/1/12 to 10/31/13 RESEARCH  
HENDERSON, ERIC GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

\$100,000 PORTLAND CEMENT ASSOCIATION 4001757

**117770** 2012 MANAGEMENT OF THE NATIONAL CONCRETE PAVEMENT TECHNOLOGY CENTER

1/1/12 to 12/31/12 DEPT/ADMIN SUPPORT  
CACKLER, ELLS INSTITUTE FOR TRANSPORTATION-VPR/ED  
CO-PI NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

\$97,020 NSF-NATIONAL SCIENCE FOUNDATION 4207105

**104385** CAREER: ADVANCED DECISION PROCEDURES FOR WORDS, TREES AND LISTS

3/15/10 to 2/28/15 RESEARCH  
ZHANG, TING COMPUTER SCIENCE-LAS

\$95,409 MICHIGAN STATE UNIVERSITY 4104022

**111100** GENOMIC SELECTION AND HERD MANAGEMENT OF IMPROVED FEED EFFICIENCY OF THE DAIRY INDUSTRY

5/1/11 to 4/30/13 RESEARCH  
SPURLOCK, DIANE ANIMAL SCIENCE-AES/CALS

\$95,000 NSF-NATIONAL SCIENCE FOUNDATION 4202531

**95801** CAREER: RATIONALLY DESIGNED CONJUGATED POLYMERS BASED ON BENZOBISOXAZOLES

6/1/09 to 5/31/14 RESEARCH  
JEFFRIES-EL, MALIKA CHEMISTRY-LAS

\$90,416 UNIVERSITY OF GEORGIA 4044058

**117172** TRPGR SOYMAPII: LEVERAGING UNTAPPED GENETIC DIVERSITY IN SOYBEAN

10/1/11 to 3/31/12 RESEARCH  
LAMKEY, KENDALL AGRONOMY-AES/CALS  
CO-PI SHOEMAKER, RANDY AGRONOMY-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

454

\$86,927	NATIONAL PORK BOARD			4534050
<b>117117</b>	IMPROVING CARCASS FAT BY MANIPULATING THE AMOUNT AND TIMING OF FEEDING DIETARY FATS WITH IODINE VALUES			
	5/1/12 to 4/30/13	RESEARCH		
	PATIENCE, JOHN		ANIMAL SCIENCE-AES/CALS	
CO-PI	PRUSA, KENNETH		FOOD SCIENCE & HUMAN NUTRITION-HS	
\$83,321	UNIVERSITY OF WISCONSIN MADISON			4104087
<b>114134</b>	IMPROVED BREEDING AND VARIETY EVALUATION METHODS TO REDUCE ACRYLAMIDE CONTENT AND INCREASE QUALITY IN PROCESSED POTATO PRODUCTS			
	1/1/12 to 8/31/13	RESEARCH		
	HUFFMAN, WALLACE		ECONOMICS-AES/CALS	
\$76,939	NATIONAL PORK BOARD			4532362
<b>117076</b>	DEVELOPMENT OF A GENUS-SPECIFIC VIRULENCE GENE PCR PANEL FOR BRACHYSPIRA SPP			
	5/1/12 to 4/30/13	RESEARCH		
	SONGER, GLENN		VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	BURROUGH, ERIC		VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
\$75,064	NSF-NATIONAL SCIENCE FOUNDATION			4206207
<b>115844</b>	CAREER: PLANT-IN-A-CHIP SYSTEM FOR SENSING AND MODULATING ROOT-PATHOGEN INTERACTIONS			
	5/15/12 to 4/30/17	RESEARCH		
	PANDEY, SANTOSH		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$74,456	NATIONAL PORK BOARD			4532363
<b>117129</b>	THE IMPACT OF PIG HEALTH ON PUBLIC HEALTH: QUANTITATIVE DATA FOR RISK ASSESSMENTS			
	5/1/12 to 4/30/14	RESEARCH		
	HURD, HOWARD		VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	FRANA, TIMOTHY		VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	RAMIREZ, ALEJANDRO		VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
\$73,900	IOWA PORK PRODUCERS ASSOCIATION			4533009
<b>117523</b>	EVALUATING NUTRIENT (NITROGEN AND ORTHO-PHOSPHATE) EXPORT WITH SUBSURFACE DRAINAGE WATER FROM MANURE APPLIED SUB-WATERSHEDS PLANTED TO SOYBEANS			
	5/24/12 to 5/23/13	EXTENSION/PUBLIC		
	ARORA, KAPIL		EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
CO-PI	KANWAR, RAMESHWAR		AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	



April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

455

\$73,900 IOWA PORK PRODUCERS ASSOCIATION

4533009

**117523** EVALUATING NUTRIENT (NITROGEN AND ORTHO-PHOSPHATE) EXPORT WITH SUBSURFACE DRAINAGE WATER FROM  
MANURE APPLIED SUB-WATERSHEDS PLANTED TO SOYBEANS

5/24/12 to 5/23/13 EXTENSION/PUBLIC

CO-PI PEDERSON, CARL AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT

CO-PI HELMERS, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT

\$72,761 IOWA PORK PRODUCERS ASSOCIATION

4522304

**117812** DEVELOPMENT OF A MODEL FOR REGIONAL CONTROL AND ELIMINATION OF PRRS VIRUS IN IOWA

10/1/11 to 9/30/12 EXTENSION/PUBLIC

HOLTKAMP, DERALD VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI BAKER, RODNEY VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI MCKEAN, JAMES VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI ZIMMERMAN, JEFFREY VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

\$50,090 UNIVERSITY OF ILLINOIS, TRUSTEES OF

4041729

**116208** EVALUATING ALL-WEATHER PAVEMENT MARKINGS AND LAB METHODS TO SIMULATE FIELD EXPOSURE

4/1/12 to 6/30/12 RESEARCH

HAWKINS, NEAL INSTITUTE FOR TRANSPORTATION-VPR/ED

CO-PI SMADI, OMAR INSTITUTE FOR TRANSPORTATION-VPR/ED

CO-PI NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

\$50,000 DOE-U.S. DEPARTMENT OF ENERGY

4012102

**117057** NEUTRINO PHYSICS IN THE NOVA EXPERIMENT

6/1/12 to 3/31/13 RESEARCH

SANCHEZ, MAYLY PHYSICS & ASTRONOMY-LAS

\$47,258 DOD-ARMY CORPS OF ENGINEERS (USACE)

4212044

**118204** WATER QUALITY MONITORING AT SAYLORVILLE LAKE (OPTION YEAR 2)

3/1/12 to 5/31/12 RESEARCH

LUTZ, DONNA CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

456

\$45,000	TECHNOLOGY ASSOCIATION OF IOWA			4001761
<b>118615</b>	IT- ADVENTURES/IT-OLYMPICS 2012			
	3/1/12 to 6/30/12	MISCELLANEOUS		
	JACOBSON, DOUG		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$44,758	GENERAL MILLS OPERATIONS INC			4002861
<b>118202</b>	CONCENTRATE, ADJUDICATE AND ELIMINATE: DEVELOPMENT AND EVALUATION OF A COMMON SAMPLE-TO-DETECTION WORKFLOW FOR DRY CEREAL, REFRIGERATED COOKIE DOUGH AND WHEAT FLOUR			
	6/1/12 to 5/31/13	RESEARCH		
	BREHM-STECHER, BYRON		FOOD SCIENCE & HUMAN NUTRITION-HS	
\$44,400	SYNGENTA CROP PROTECTION INC			4004884
<b>118491</b>	CORN PESTS RESEARCH PROJECT			
	1/1/12 to 12/31/12	RESEARCH		
	GASSMANN, AARON		ENTOMOLOGY-AES/CALS	
	CO-PI WEBER, PATRICK		ENTOMOLOGY-AES/CALS	
\$38,739	IOWA DEPARTMENT OF TRANSPORTATION			4741748
<b>117441</b>	IMPLEMENTATION AND OPERATION OF THE IOWA DOT PAVEMENT MANAGEMENT OPTIMIZATION MODEL			
	11/1/07 to 12/31/12	RESEARCH		
	SMADI, OMAR		INSTITUTE FOR TRANSPORTATION-VPR/ED	
	CO-PI NAMBISAN, SHASHI		INSTITUTE FOR TRANSPORTATION-VPR/ED	
\$32,721	DOD-ARMY CORPS OF ENGINEERS (USACE)			4212043
<b>118216</b>	WATER QUALITY MONITORING AT LAKE RED ROCK (OPTION YEAR 2)			
	3/1/12 to 5/31/12	RESEARCH		
	LUTZ, DONNA		CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
\$31,347	USDA-OFFICE OF THE CHIEF ECONOMIST (OCE)			4124532
<b>118489</b>	IPA ASSIGNMENT AGREEMENT			
	7/26/12 to 10/19/12	RESEARCH		
	GALLAGHER, PAUL		ECONOMICS-AES/CALS	

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

457

\$28,570	BALL STATE UNIVERSITY			4041726
<b>117829</b>	NSF I/UCRC CENTER FOR INFORMATION PROTECTION-BALL STATE			
	1/1/12 to 12/31/12	RESEARCH		
	TYAGI, AKHILESH		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$27,778	VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY			4103906
<b>111290</b>	INTEGRATED MANAGEMENT OF OOMYCETE DISEASES OF SOYBEAN AND OTHER CROP PLANTS			
	4/1/11 to 3/31/13	RESEARCH		
	ROBERTSON, ALISON		PLANT PATHOLOGY-AES/CALS	
\$27,000	IOWA SOYBEAN ASSOCIATION			4504230
<b>115146</b>	DETERMINE IF EXPRESSION OF ARABIDOPSIS NONHOST RESISTANCE GENES CAN CONFER PHYTOPTHORA RESISTANCE IN SOYBEAN			
	10/1/11 to 9/30/12	RESEARCH		
	BHATTACHARYYA, MADAN		AGRONOMY-AES/CALS	
\$26,143	UNIVERSITY OF IOWA			4754054
<b>118263</b>	GIS AUTOMATION OF LIDAR DEM CUTTING FOR HYDROLOGIC/HYDRAULIC MODELING			
	2/1/11 to 6/30/12	RESEARCH		
	GELDER, BRIAN		AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$25,985	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)			4194023
<b>118388</b>	SOCIAL NETWORK ANALYSIS OF BIOFUEL VALUE CHAINS			
	1/1/12 to 12/31/12	RESEARCH		
	FLORA, CORNELIA		SOCIOLOGY-AES/CALS	
\$25,000	BOEHRINGER INGELHEIM VETMEDICA INC			4002344
<b>117584</b>	PROBABILITY OF DETECTING PRRSV IN PEN-BASED ORAL FLUID SAMPLES FROM LOW PREVALENCE POPULATIONS			
	2/1/12 to 2/28/13	RESEARCH		
	ZIMMERMAN, JEFFREY		VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

458

\$24,084 UNIVERSITY OF IOWA

4752108

**117778** GRASS LAWN ECOSYSTEM SUSTAINABILITY IN AN ERA OF CLIMATE CHANGE: INSIGHTS FROM 38 YEARS OF WARMING

7/1/12 to 6/30/13 RESEARCH

RAICH, JAMES ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

\$20,000 IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

4713064

**118270** PESTICIDE RECORDKEEPING APPLICATION FOR THE PESTICIDE MANAGEMENT PLAN

10/1/11 to 6/30/12 EXTENSION/PUBLIC

SCHAEFER, KRISTINE ENTOMOLOGY-EXT

CO-PI BUFFINGTON, ELIZABETH ENTOMOLOGY-EXT

\$20,000 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

4194019

**118706** ABATEMENT MEASURES FOR REDUCING ODOR, VOC, AND GREENHOUSE GAS EMISSIONS FROM ANIMAL FEEDING OPERATIONS

1/1/11 to 12/31/12 RESEARCH

KOZIEL, JACEK AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

\$19,250 USDA-FOREIGN AGRICULTURAL SERVICE (FAS)

4124039

**118636** SWINE BREEDING

6/10/11 to 6/9/12 INSTRUCTION/TRAINING

BAAS, THOMAS ANIMAL SCIENCE-AES/CALS

\$19,104 DOD-AIR FORCE RESEARCH LABORATORY (AFRL)

4212040

**97678** ADAPTIVE GUIDANCE FOR RESPONSIVE LAUNCH AND OPERATIONS

2/10/11 to 9/28/12 RESEARCH

LU, PING AEROSPACE ENGINEERING-ENGR

\$18,677 BROOKHAVEN SCIENCE ASSOCIATES-BROOKHAVEN NATIONAL LABORATORY

4042149

**116895** LONG BASELINE NEUTRINO EXPERIMENT

10/1/11 to 9/30/12 RESEARCH

SANCHEZ, MAYLY PHYSICS & ASTRONOMY-LAS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

459

\$18,273	USDA-FOREIGN AGRICULTURAL SERVICE (FAS)		4124537
<b>118553</b>	USDA SCIENTIFIC EXCHANGE PROGRAM-IRAQ		
	3/26/12 to 9/30/12	INSTRUCTION/TRAINING	
	BJELLAND, DENISE	GLOBAL AGRICULTURE PROGRAMS-AES/CALS	
\$16,000	NSF-NATIONAL SCIENCE FOUNDATION		4206208
<b>118324</b>	CSR: SMALL: HARDWARE ARCHITECTURES FOR DATA MINING AT THE EXASCALE		
	9/1/11 to 8/31/14	RESEARCH	
	ZAMBRENO, JOSEPH	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$15,200	BASF CORPORATION		4003079
<b>118362</b>	SBF4 SOYBEAN PRODUCTION FIELD TRIAL		
	7/1/11 to 6/30/12	RESEARCH	
	MUELLER, DAREN	PLANT PATHOLOGY-EXT	
\$15,000	ARIZONA STATE UNIVERSITY		4002090
<b>118480</b>	POWER SYSTEMS ENGINEERING RESEARCH CENTER (PSERC) ADMINISTRATIVE FUND, I/UCRC		
	8/16/11 to 8/16/12	RESEARCH	
	AJJARAPU, VENKATARAMANA	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$14,648	BODYMEDIA INC		4006402
<b>116500</b>	EVALUATE SPEED AND DISTANCE AND STEP COUNTING FUNCTIONS		
	2/8/12 to 6/30/12	RESEARCH	
	WELK, GREGORY	KINESIOLOGY-HS	
\$13,500	UT-BATTELLE LLC-OAK RIDGE NATIONAL LABORATORY		4044060
<b>118651</b>	SUPPORT ACTIVITIES IN THE S1 BOG AT THE SPRUCE AND PEATLAND RESPONSES UNDER CLIMATIC AND ENVIRONMENTAL CHANGES (SPRUCE)		
	4/23/12 to 8/17/12	RESEARCH	
	SCHULTE, LISA	NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
CO-PI	ONTL, TODD	NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

460

\$13,000 NSF-DIRECTORATE FOR ENGINEERING (ENG)

4206203

**116407** PLANNING GRANT: I/UCRC FOR CENTER FOR E-DESIGN

3/15/12 to 2/28/13 RESEARCH

CO-PI TERPENNY, JANIS INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR  
VANCE, JUDY MECHANICAL ENGINEERING-ENGR

\$12,720 OREGON STATE UNIVERSITY

4104086

**115994** INNOVATIONS IN MEAT AND POULTRY PROCESSING FOR LOCAL MARKETS

10/1/11 to 9/30/12 RESEARCH

CORDRAY, JOSEPH ANIMAL SCIENCE-AES/CALS

\$12,000 NSF-NATIONAL SCIENCE FOUNDATION

4206205

**117088** NANOPRECIPITATION IN TURBULENT LIQUID-PHASE VORTEX REACTORS: A FUNDAMENTAL INVESTIGATION OF SCALE UP USING EXPERIMENTALLY VALIDATED CFD MODELS

8/15/09 to 7/31/12 RESEARCH

OLSEN, MICHAEL MECHANICAL ENGINEERING-ENGR

\$12,000 NSF-NATIONAL SCIENCE FOUNDATION

4202528

**117920** EAGER: HAPTICS FOR LARGE SCALE VIRTUAL ENVIRONMENTS TO ASSESS ASSEMBLY TASKS

1/1/11 to 12/31/12 RESEARCH

CO-PI VANCE, JUDY MECHANICAL ENGINEERING-ENGR  
LUECKE, GREG MECHANICAL ENGINEERING-ENGR

\$10,360 BATTELLE MEMORIAL INSTITUTE-PACIFIC NORTHWEST NATIONAL LABORATORY

4042178

**97659** A TEST BED FOR THE INTEGRATED EXPERIMENTAL STUDY OF RETAIL AND WHOLESALE POWER MARKET DESIGNS

4/10/09 to 9/28/12 RESEARCH

TESFATSION, LEIGH ECONOMICS-LAS

\$10,000 SYNGENTA SEEDS INC

4003082

**118360** EVALUATION OF SYNGENTA WEED MANAGEMENT TECHNOLOGIES

4/1/12 to 3/31/13 EXTENSION/PUBLIC

OWEN, MICHEAL AGRONOMY-AES/CALS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

461

\$10,000 UNIVERSITY OF IOWA

4752045

**118766** IOWA ALLIANCE FOR WIND INNOVATION AND NOVEL DEVELOPMENT (IAWIND)

7/1/11 to 7/1/12 INSTRUCTION/TRAINING  
RAJAGOPALAN, R. AEROSPACE ENGINEERING-ENGR

\$8,621 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

4194971

**112155** RESEARCH SUPPORT AGREEMENT

10/1/10 to 9/30/11 RESEARCH  
LAMKEY, KENDALL AGRONOMY-AES/CALS

\$8,000 NSF-NATIONAL SCIENCE FOUNDATION

4206206

**117973** NETS: MEDIUM: COLLABORATIVE RESEARCH: MODELING, DESIGN AND EMULATION OF P2P REAL-TIME STREAMING NETWORKS

4/5/12 to 5/31/14 RESEARCH  
YING, LEI ELECTRICAL & COMPUTER ENGINEERING-ENGR

\$6,000 NSF-NATIONAL SCIENCE FOUNDATION

4202153

**118138** COLLABORATIVE RESEARCH: SEX CHROMOSOME EVOLUTION IN TURTLES

1/1/09 to 12/31/12 RESEARCH  
VALENZUELA-CASTRO, MARIA ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

\$4,772 NSF-NATIONAL SCIENCE FOUNDATION

4206056

**118411** ORIGIN OF THE ELECTRIC FIELD-INDUCED STRAIN IN LEAD-FREE PIEZOELECTRIC CERAMICS

10/1/10 to 9/30/14 RESEARCH  
TAN, XIAOLI MATERIALS SCIENCE & ENGINEERING-ENGR  
CO-PI BECKMAN, SCOTT MATERIALS SCIENCE & ENGINEERING-ENGR

\$4,673 IOWA DEPARTMENT OF EDUCATION

4722823

**118065** TEAM NUTRITION PHYSICAL ACTIVITY KITS

4/1/12 to 8/30/12 INSTRUCTION/TRAINING  
VAZOU, SPYRIDOULA KINESIOLOGY-HS

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

462

\$3,850	PLANT FOOD SYSTEMS INC			4004363
<b>118497</b>	EFFECTIVENESS OF KPHITE PRODUCTS AGAINST SOYBEAN DISEASES			
	4/15/11 to 12/15/11	RESEARCH		
	LEANDRO, LEONOR		PLANT PATHOLOGY-AES/CALS	
\$3,800	UNIVERSITY OF MINNESOTA TWIN CITIES			4103065
<b>118082</b>	CYFERNET TECHNOLOGY			
	5/15/11 to 5/14/12	EXTENSION/PUBLIC		
	WOODS, BARBARA		EXTENSION TO FAMILIES-EXT	
\$2,500	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)			4194828
<b>117481</b>	RESEARCH SUPPORT AGREEMENT			
	10/1/11 to 9/30/12	RESEARCH		
	BEITZ, DONALD		ANIMAL SCIENCE-AES/CALS	
\$2,500	AJINOMOTO CO, INC			4004362
<b>118585</b>	AJINOMOTO PHYTOTOXICITY STUDY 2012			
	3/31/12 to 12/31/12	RESEARCH		
	CHRISTIANS, NICK		HORTICULTURE-AES/CALS	
\$2,239	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)			4194959
<b>112019</b>	RESEARCH SUPPORT AGREEMENT			
	10/1/10 to 9/30/11	RESEARCH		
	LAMKEY, KENDALL		AGRONOMY-AES/CALS	
\$1,933	UNIVERSITY OF NORTHERN IOWA			4754011
<b>118169</b>	IOWA NASA EPSCOR TRAVEL GRANT			
	2/1/12 to 6/30/12	RESEARCH		
	DEBINSKI, DIANE		ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	



April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

463

\$1,166	USDA-FARM SERVICE AGENCY (FSA)		4122106
<b>118418</b>	PHASE 1 ARCHAEOLOGICAL SURVEY		
	3/8/12 to 6/30/12	EXTENSION/PUBLIC	
	HILL, MATTHEW	ANTHROPOLOGY-LAS	
\$1,166	USDA-FARM SERVICE AGENCY (FSA)		4122106
<b>118421</b>	PHASE 1 ARCHAEOLOGICAL SURVEY		
	3/8/12 to 6/30/12	EXTENSION/PUBLIC	
	HILL, MATTHEW	ANTHROPOLOGY-LAS	
\$636	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)		4194954
<b>112017</b>	RESEARCH SUPPORT AGREEMENT		
	1/1/10 to 9/30/11	RESEARCH	
	LAMKEY, KENDALL	AGRONOMY-AES/CALS	
\$613	IOWA DEPARTMENT OF EDUCATION		4722824
<b>118603</b>	STATEWIDE SPECIAL EDUCATION CONFERENCE ON MATHEMATICS PROGRESS MONITORING TOOLS FOR GRADES K-12		
	6/11/12 to 6/13/12	INSTRUCTION/TRAINING	
	FOEGEN, ANNE	CURRICULUM & INSTRUCTION-HS	
\$590	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)		4194950
<b>112013</b>	RESEARCH SUPPORT AGREEMENT		
	10/1/10 to 9/30/11	RESEARCH	
	LAMKEY, KENDALL	AGRONOMY-AES/CALS	
\$92	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)		4194952
<b>112015</b>	RESEARCH SUPPORT AGREEMENT		
	10/1/10 to 9/30/11	RESEARCH	
	LAMKEY, KENDALL	AGRONOMY-AES/CALS	

April 01 - 30, 2012

**II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

464

\$1 ED-U.S. DEPARTMENT OF EDUCATION

4322802

**111805** ALGEBRA SCREENING AND PROGRESS MONITORING

7/1/12 to 6/30/13 RESEARCH

FOEGEN, ANNE CURRICULUM & INSTRUCTION-HS