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

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\$2,976,416	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 DOE-VPR/ED	
\$2,702,674	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)		6024000
<b>118686</b>	2012 HATCH RESEARCH		
	10/1/11 to 9/30/13	RESEARCH	
	WINTERSTEEN, WENDY	AGRICULTURE & HOME ECONOMICS EXPERIMENT STATION-AES/CALS	
\$1,841,346	NSF-NATIONAL SCIENCE FOUNDATION		4202601
<b>117783</b>	MRI: ACQUISITION OF A HPC SYSTEM FOR DATA-DRIVEN DISCOVERY IN SCIENCE AND ENGINEERING		
	8/1/12 to 7/31/15	EQUIPMENT	
	SOMANI, ARUN	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	ALURU, SRINIVAS	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	FOX, RODNEY	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
CO-PI	GORDON, MARK	CHEMISTRY-LAS	
CO-PI	TAKLE, GENE	AGRONOMY-AES/CALS	
\$1,738,269	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 DOE-VPR/ED	
\$962,500	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)		4164105
<b>111177</b>	IMPROVING NUTRIENT UTILIZATION AND FEED EFFICIENCY THROUGH RESEARCH AND EXTENSION TO ENHANCE PIG INDUSTRY SUSTAINABILITY AND COMPETITIVENESS		
	4/1/11 to 3/31/14	RESEARCH	
	PATIENCE, JOHN	ANIMAL SCIENCE-AES/CALS	
CO-PI	MABRY, JOHN	ANIMAL SCIENCE-AES/CALS	
CO-PI	NETTLETON, DANIEL	STATISTICS-LAS	
CO-PI	ROTHSCHILD, MAX	ANIMAL SCIENCE-AES/CALS	
CO-PI	DEKKERS, JACK	ANIMAL SCIENCE-AES/CALS	
CO-PI	GABLER, NICHOLAS	ANIMAL SCIENCE-AES/CALS	
CO-PI	TUGGLE, CHRIS	ANIMAL SCIENCE-AES/CALS	

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\$962,500	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	4164105
<b>111177</b>	IMPROVING NUTRIENT UTILIZATION AND FEED EFFICIENCY THROUGH RESEARCH AND EXTENSION TO ENHANCE PIG INDUSTRY SUSTAINABILITY AND COMPETITIVENESS 4/1/11 to 3/31/14 RESEARCH	
CO-PI	ANDERSON, LLOYD	ANIMAL SCIENCE-AES/CALS
CO-PI	LONERGAN, ELISABETH	ANIMAL SCIENCE-AES/CALS
CO-PI	BUTTERS-JOHNSON, ANNA	ANIMAL SCIENCE-AES/CALS
CO-PI	LIU, PENG	STATISTICS-LAS
CO-PI	LONERGAN, STEVEN	ANIMAL SCIENCE-AES/CALS
\$844,728	MONSANTO COMPANY	4004129
<b>119411</b>	CORN STOVER RESIDUE MANAGEMENT 5/1/12 to 12/31/15 RESEARCH BIRRELL, STUART	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
\$654,921	NIH-NATIONAL INSTITUTE ON DRUG ABUSE (NIDA)	4301705
<b>98151</b>	RURAL YOUTH AND FAMILY COMPETENCIES BUILDING PROJECT 9/1/11 to 8/31/13 RESEARCH SPOTH, RICHARD	PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE-VPR/ED
\$648,872	NSF-NATIONAL SCIENCE FOUNDATION	4202068
<b>112062</b>	IGERT: A NEW PHD PROGRAM IN WIND ENERGY SCIENCE, ENGINEERING AND POLICY 9/1/11 to 8/31/16 INSTRUCTION/TRAINING	
CO-PI	MCCALLEY, JAMES	ELECTRICAL & COMPUTER ENGINEERING-ENGR
CO-PI	BRASCHE, LISA	CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
CO-PI	JACKMAN, JOHN	INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR
CO-PI	SARKAR, PARTHA	AEROSPACE ENGINEERING-ENGR
CO-PI	TAKLE, GENE	AGRONOMY-AES/CALS
\$597,070	NSF-NATIONAL SCIENCE FOUNDATION	4204015
<b>118247</b>	BIC: AN INNOVATION PARTNERSHIP TO ADVANCE A HIGH-THROUGHPUT PLANT PHENOTYPE 9/1/12 to 8/31/14 RESEARCH	
CO-PI	NIKOLAU, BASIL	BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS
CO-PI	MCCLELLAND, JOHN	MECHANICAL ENGINEERING-ENGR
CO-PI	LUBBERSTEDT, THOMAS	AGRONOMY-AES/CALS

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\$597,070	NSF-NATIONAL SCIENCE FOUNDATION	4204015
<b>118247</b>	BIC: AN INNOVATION PARTNERSHIP TO ADVANCE A HIGH-THROUGHPUT PLANT PHENOTYPE	
	9/1/12 to 8/31/14 RESEARCH	
CO-PI	SCOTT, MARVIN	AGRONOMY-AES/CALS
CO-PI	QUISENBERRY, SHARRON	VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED
\$490,375	HHS-FOOD & DRUG ADMINISTRATION (FDA)	4304007
<b>116212</b>	FOOD SAFETY INSPECTION-TRAINING FOR BULK AGRICULTURAL PRODUCT HANDLING AND PROCESSING	
	9/21/11 to 8/31/13 INSTRUCTION/TRAINING	
CO-PI	HURBURGH, CHARLES	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
	ROTH, JAMES	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
\$480,000	NSF-NATIONAL SCIENCE FOUNDATION	4204004
<b>116699</b>	WSC-CATEGORY 2, COLLABORATIVE: CLIMATE AND HUMAN DYNAMICS AS AMPLIFIERS OF NATURAL CHANGE: A FRAMEWORK FOR VULNERABILITY ASSESSMENT AND MITIGATION PLANNING	
	9/1/12 to 8/31/17 RESEARCH	
	KLING, CATHERINE	ECONOMICS-AES/CALS
\$479,446	NSF-NATIONAL SCIENCE FOUNDATION	4202086
<b>117513</b>	TWC: SMALL: DETECTION AND PREVENTION OF PRIOR KNOWN SOFTWARE SECURITY VULNERABILITIES	
	9/1/12 to 8/31/15 RESEARCH	
	NGUYEN, TIEN	ELECTRICAL & COMPUTER ENGINEERING-ENGR
\$478,871	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)	4183001
<b>118677</b>	EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM 2012 FORMULA-IOWA	
	10/1/11 to 9/30/16 EXTENSION/PUBLIC	
	MARTIN, PEGGY	EXTENSION TO FAMILIES-EXT
\$445,000	NIH-NATIONAL INSTITUTE ON DRUG ABUSE (NIDA)	4301714
<b>115325</b>	PARTNERSHIP MODEL FOR DIFFUSION OF PROVEN PREVENTION	
	12/1/00 to 8/31/17 RESEARCH	
CO-PI	SPOTH, RICHARD	PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE-VPR/ED
	REDMOND, CLEVE	PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE-VPR/ED

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\$384,944	NIH-NATL INST OF ALLERGY & INFECTIOUS DISEASES (NIAID)		4302313
<b>107001</b>	TARGETING GP41 TO ELICIT NEUTRALIZING ANTIBODIES AGAINST HIV-1		
	9/1/11 to 8/31/13	RESEARCH	
	CHO, MICHAEL	BIOMEDICAL SCIENCES-VET	
\$360,991	MAPP BIOPHARMACEUTICAL		4042313
<b>113642</b>	MONOCLONAL IMMUNOPROTECTANTS FOR SELECT AGENTS TOXINS (MAB-SAT)		
	7/1/12 to 6/30/13	RESEARCH	
	SONGER, J	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
\$350,000	NSF-NATIONAL SCIENCE FOUNDATION		4202048
<b>116839</b>	II-NEW: DISTRIBUTED COMPUTING LABORATORY FOR LARGE SCALE SYSTEM MODELING AND ANALYSIS		
	9/1/12 to 8/31/15	EQUIPMENT	
	SOMANI, ARUN	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	MCCALLEY, JAMES	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	TIRTHAPURA, SRIKANTA	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	WANG, ZHI	AEROSPACE ENGINEERING-ENGR	
\$330,000	NSF-NATIONAL SCIENCE FOUNDATION		4202043
<b>117462</b>	NETS: SMALL: CONTROL OF PARTIALLY OBSERVABLE WIRELESS NETWORKS: FUNDAMENTAL LIMITS, OPTIMAL ALGORITHMS AND PRACTICAL IMPLEMENTATION		
	8/1/12 to 7/31/15	RESEARCH	
	YING, LEI	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$299,705	NSF-NATIONAL SCIENCE FOUNDATION		4202037
<b>117604</b>	MIXED MODE TRANSITION		
	9/1/12 to 8/31/15	RESEARCH	
	DURBIN, PAUL	AEROSPACE ENGINEERING-ENGR	
\$279,726	NIH-NATL INSTITUTE OF GENERAL MEDICAL SCIENCES (NIGMS)		4302118
<b>104135</b>	METAL ION EXPORT IN BACTERIA		
	7/1/10 to 6/30/13	RESEARCH	
	YU, EDWARD	PHYSICS & ASTRONOMY-LAS	

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\$259,730 NSF-NATIONAL SCIENCE FOUNDATION

4202163

**119617** VASANT HONAVAR INTERGOVERNMENTAL PERSONNEL ACT (IPA) WITH NSF

9/27/12 to 9/26/13 EXTENSION/PUBLIC  
HONAVAR, VASANT COMPUTER SCIENCE-LAS

\$257,787 NIH-NATIONAL INSTITUTES OF HEALTH

4302112

**111387** META!BLAST: A 3D CELL AND METABOLIC BIOLOGY INTERACTIVE LEARNING ENVIRONMENT FOR HIGH SCHOOL STUDENTS

9/1/11 to 6/30/13 RESEARCH  
WURTELE, EVE GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS  
CO-PI BASSHAM, DIANE GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS  
CO-PI LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS

\$250,000 NSF-NATIONAL SCIENCE FOUNDATION

4206219

**118128** GRAPHENE-SIC INTERFACE: EFFECT OF ATOMIC BONDING TYPE ON THERMAL TRANSPORT

9/1/12 to 8/31/15 RESEARCH  
WANG, XINWEI MECHANICAL ENGINEERING-ENGR

\$250,000 IOWA ECONOMIC DEVELOPMENT AUTHORITY

4783002

**119223** MIDWEST GRAPE AND WINE INDUSTRY INSTITUTE

7/1/12 to 6/30/13 EXTENSION/PUBLIC  
DHARMADHIKARI, MURLIDHAR FOOD SCIENCE & HUMAN NUTRITION-EXT

\$249,320 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

4173008

**106382** IOWA STATE UNIVERSITY INTEGRATED PEST MANAGEMENT COORDINATION PROGRAM

8/1/10 to 7/31/13 EXTENSION/PUBLIC  
MUJELLER, DAREN PLANT PATHOLOGY-EXT  
CO-PI JESSE, LAURA PLANT PATHOLOGY-EXT

\$230,862 NSF-NATIONAL SCIENCE FOUNDATION

4202154

**113981** ATD: MODELS FOR (META) GENOME IDENTIFICATION FROM NEXT GENERATION SEQUENCE DATA WITH ERRORS

9/1/11 to 8/31/14 RESEARCH  
DORMAN, KARIN STATISTICS-LAS  
CO-PI RAMAMOORTHY, ADITYA ELECTRICAL & COMPUTER ENGINEERING-ENGR  
CO-PI BLITVICH, BRADLEY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

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\$230,862	NSF-NATIONAL SCIENCE FOUNDATION		4202154
<b>113981</b>	ATD: MODELS FOR (META) GENOME IDENTIFICATION FROM NEXT GENERATION SEQUENCE DATA WITH ERRORS		
	9/1/11 to 8/31/14	RESEARCH	
CO-PI	ALURU, SRINIVAS	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$230,000	NSF-NATIONAL SCIENCE FOUNDATION		4202150
<b>116949</b>	NSF-EUROPE MATERIALS COLLABORATION: MATERIALS WORLD NETWORK: TARGETING NEW COMPLEX ITINERANT MAGNETS USING EXPERIMENT AND THEORY		
	8/15/12 to 7/31/15	RESEARCH	
	MILLER, GORDON	CHEMISTRY-LAS	
\$200,000	NSF-NATIONAL SCIENCE FOUNDATION		4204092
<b>113803</b>	EVOLUTIONARY CONVERGENCE OR PARALLELISM? EXAMINING RECURRENT PATTERNS OF PHENOTYPIC EVOLUTION IN MARINE SCALLOPS		
	8/1/11 to 7/31/14	RESEARCH	
CO-PI	SERB, JEANNE	ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	
	ADAMS, DEAN	ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS	
\$182,000	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)		4162302
<b>119093</b>	NATIONAL ANIMAL HEALTH LABORATORY NETWORK ACTIVITIES FOR IOWA STATE UNIVERSITY		
	8/15/12 to 8/14/13	RESEARCH	
CO-PI	MAIN, RODGER	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
	HALBUR, PATRICK	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
\$180,098	NIH-NATL INST OF NEUROLOGICAL DISORDERS & STROKE (NINDS)		4302301
<b>118632</b>	HIGH-AFFINITY RNA TARGETS OF SURVIVAL MOTOR NEURON PROTEIN		
	9/1/12 to 8/31/13	RESEARCH	
CO-PI	SINGH, RAVINDRA	BIOMEDICAL SCIENCES-VET	
	SINGH, NATALIA	BIOMEDICAL SCIENCES-VET	
\$174,998	NSF-NATIONAL SCIENCE FOUNDATION		4206221
<b>117774</b>	BRIGE: REPROGRAMMING TUMOR ASSOCIATED MACROPHAGES: ENGINEERING POLYMER SURFACE PROPERTIES TO DISCRIMINATELY DELIVER DRUGS		
	9/1/12 to 8/31/14	RESEARCH	
	BRATLIE, KAITLIN	MATERIALS SCIENCE & ENGINEERING-ENGR	

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\$174,321	NSF-NATIONAL SCIENCE FOUNDATION			4202114
<b>116614</b>	COLLABORATIVE: ROOM-TEMPERATURE ELECTROPHOSPHORESCENCE FROM ALL-ORGANIC OLEDs			
	8/15/12 to 7/31/15	RESEARCH		
	SHINAR, JOSEPH		PHYSICS & ASTRONOMY-LAS	
\$170,000	DOE-U.S. DEPARTMENT OF ENERGY			4012117
<b>117211</b>	STRUCTURE/FUNCTION OF THE NOVEL PROTEINS LCIB AND LCIC IN THE CHLAMYDOMONAS CCM			
	8/15/12 to 8/14/13	RESEARCH		
	SPALDING, MARTIN		GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS	
CO-PI	WANG, YINGJUN		GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS	
\$165,192	USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)			6203089
<b>118611</b>	CSRS RETIREMENT CONTRIBUTIONS PROGRAM 2012 IOWA			
	10/1/11 to 9/30/16	EXTENSION/PUBLIC		
	KRESS, CATHANN		EXTENSION ADMINISTRATION-EXT	
\$160,060	SYNGENTA BIOTECHNOLOGY INC			4004009
<b>118222</b>	BAS (BACKCROSS ANALYSIS AND SOFTWARE) WITH ISU			
	8/15/12 to 12/31/13	RESEARCH		
	BEAVIS, WILLIAM		AGRONOMY-AES/CALS	
CO-PI	WANG, LIZHI		INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR	
\$157,860	OHIO STATE UNIVERSITY			4044010
<b>119576</b>	COLLABORATIVE RESEARCH AND CAPACITY BUILDING AT SOKOINE UNIVERSITY AND NATIONAL AGRICULTURAL RESEARCH SYSTEM			
	8/1/11 to 9/30/15	INSTRUCTION/TRAINING		
	ACKER, DAVID		GLOBAL AGRICULTURE PROGRAMS-AES/CALS	
\$155,510	PENNSYLVANIA STATE UNIVERSITY			4041713
<b>113342</b>	IMPLICATIONS OF GENETIC VARIANCE FOR SUBSTANCE USE INTERVENTIONS IN ADOLESCENCE			
	8/1/11 to 5/31/13	RESEARCH		
	SPOTH, RICHARD		PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE-VPR/ED	

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\$147,915 UNIVERSITY OF MISSOURI COLUMBIA 4104013

**111257** NATIONAL PROGRAM FOR GENETIC IMPROVEMENT OF FEED EFFICIENCY IN BEEF CATTLE

4/1/11 to 3/31/13 RESEARCH

HANSEN, STEPHANIE ANIMAL SCIENCE-AES/CALS  
CO-PI GARRICK, DORIAN ANIMAL SCIENCE-AES/CALS  
CO-PI LOY, DANIEL ANIMAL SCIENCE-EXT

\$147,322 DOD-SPACE AND NAVAL WARFARE SYSTEMS CENTER PACIFIC 4212050

**117730** MANUFACTURING OF HIGH-STRENGTH, LIGHTWEIGHT MAGNESIUM PANELS WITH HIERARCHICAL STRUCTURES

8/20/12 to 8/19/14 RESEARCH

KIM, GAP-YONG MECHANICAL ENGINEERING-ENGR

\$143,170 NSF-NATIONAL SCIENCE FOUNDATION 4206220

**118120** COLLABORATIVE RESEARCH: A MICROPATTERNED WETTABILITY APPROACH FOR SUPERIOR BOILING HEAT TRANSFER PERFORMANCE

9/1/12 to 8/31/15 RESEARCH

ATTINGER, DANIEL MECHANICAL ENGINEERING-ENGR  
CO-PI MORROW, WILLIAM MECHANICAL ENGINEERING-ENGR

\$140,000 DOE-U.S. DEPARTMENT OF ENERGY 4012119

**117471** NUCLEI (NUCLEAR COMPUTATIONAL LOW-ENERGY INITIATIVE)

8/15/12 to 8/14/13 RESEARCH

VARY, JAMES PHYSICS & ASTRONOMY-LAS  
CO-PI MARIS, PIETER PHYSICS & ASTRONOMY-LAS

\$140,000 IOWA CONCRETE PAVING ASSOCIATION 4001711

**118748** PROGRAM MANAGEMENT FOR THE NATIONAL CONCRETE PAVEMENT TECHNOLOGY CENTER

7/1/12 to 6/30/15 DEPT/ADMIN SUPPORT

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



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\$134,079 NORTH CAROLINA STATE UNIVERSITY

4042115

**115617** ALLIANCE POST DOC

6/1/11 to 5/31/14 INSTRUCTION/TRAINING  
KLIEMANN, WOLFGANG MATHEMATICS-LAS

\$125,000 TEXAS AGRILIFE RESEARCH

4042301

**118521** ENGAGE TO EXCEL (E2E): MAINTAINING BUSINESS CONTINUITY AND PERFORMING RISK MANAGEMENT DURING AN ANIMAL DISEASE OUTBREAK

7/1/12 to 6/30/13 EXTENSION/PUBLIC  
ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET  
CO-PI MOGAN, JANICE CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET  
CO-PI FLAMING, KEVAN CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET  
CO-PI ANDREASEN, CLAIRE VETERINARY PATHOLOGY-VET

\$123,132 NATIONAL PORK BOARD

4532304

**119762** PROPOSAL TO THE NATIONAL PORK BOARD TO HOST A WORKSHOP ON: PAIN MANAGEMENT FOR THE NEONATAL PIGLET

8/13/12 to 8/13/13 RESEARCH  
OCONNOR, ANNETTE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI MILLMAN, SUZANNE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI MCKEAN, JAMES VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI KARRIKER, LOCKE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI COETZEE, JOHANN VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET  
CO-PI BUTTERS-JOHNSON, ANNA ANIMAL SCIENCE-AES/CALS

\$117,377 NSF-NATIONAL SCIENCE FOUNDATION

4204001

**117559** COLLABORATIVE RESEARCH: STABILIZED ORGANIC CARBON AND PALEOENVIRONMENTAL INTERPRETATIONS OF LATE QUATERNARY PALEOSOLS

8/15/12 to 7/31/15 RESEARCH  
THOMPSON, MICHAEL AGRONOMY-AES/CALS  
CO-PI WANAMAKER, ALAN GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS

\$111,007 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

6203090

**118612** FERS RETIREMENT CONTRIBUTION PROGRAM 2012 IOWA

10/1/11 to 9/30/16 EXTENSION/PUBLIC  
KRESS, CATHANN EXTENSION ADMINISTRATION-EXT

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\$110,000	DOD-ARMY RESEARCH OFFICE (ARO)			4212027
<b>116478</b>	STRAIN-INDUCED PHASE TRANSFORMATIONS IN CERAMICS UNDER HIGH PRESSURE			
	8/20/12 to 4/19/13	RESEARCH		
	LEVITAS, VALERY		AEROSPACE ENGINEERING-ENGR	
\$107,938	NSF-NATIONAL SCIENCE FOUNDATION			4206007
<b>116448</b>	COLLABORATIVE RESEARCH: DEVELOPMENT OF A ROBUST, HIGH-SPEED, HIGH-QUALITY LASER-ASSISTED TIP-BASED NANOFABRICATION SYSTEM			
	8/15/12 to 7/31/15	RESEARCH		
	WANG, XINWEI		MECHANICAL ENGINEERING-ENGR	
\$105,000	KUMHO PETROCHEMICAL CO, LTD			4002052
<b>115608</b>	POLYURETHANES FROM VEGETABLE OIL-BASED POLYOLS			
	8/1/12 to 7/31/13	RESEARCH		
	WIE, BONG		AEROSPACE ENGINEERING-ENGR	
CO-PI	KESSLER, MICHAEL		MATERIALS SCIENCE & ENGINEERING-ENGR	
\$105,000	KUMHO PETROCHEMICAL CO, LTD			4002044
<b>115815</b>	NOVEL HYBRID FUNCTIONALIZATION STRATEGIES FOR MULTIWALLED CARBON NANOTUBES (MWCNT)-EPOXY COMPOSITES			
	8/1/12 to 7/31/13	RESEARCH		
	WIE, BONG		AEROSPACE ENGINEERING-ENGR	
CO-PI	KESSLER, MICHAEL		MATERIALS SCIENCE & ENGINEERING-ENGR	
\$100,000	NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION			4222005
<b>117743</b>	INTEGRATIVE RESPONSE OF C. ELGANS TO ENVIRONMENTAL STRESS IN MICROGRAVITY			
	8/15/12 to 8/14/13	RESEARCH		
	PANDEY, SANTOSH		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	POWELL-COFFMAN, JO		GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS	
CO-PI	PHILLIPS, GREGORY		VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	VAIDYA, UMESH		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$99,593	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION			4104008
<b>117702</b>	THE EFFECT OF HOUSEHOLD FINANCIAL, TIME AND ENVIRONMENTAL CONSTRAINTS ON VERY LOW FOOD SECURITY AMONG CHILDREN			
	5/25/12 to 8/30/13	RESEARCH		
	JENSEN, HELEN		ECONOMICS-AES/CALS	

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\$99,593	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	4104008
<b>117702</b>	THE EFFECT OF HOUSEHOLD FINANCIAL, TIME AND ENVIRONMENTAL CONSTRAINTS ON VERY LOW FOOD SECURITY AMONG CHILDREN 5/25/12 to 8/30/13 RESEARCH	
CO-PI	ZHYLYEVSKYY, OLEKSANDR ECONOMICS-LAS	
\$99,340	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	4104006
<b>117356</b>	NESTED ASSOCIATION MAPPING TO IDENTIFY YIELD QTL IN DIVERSE HIGH YIELDING ELITE SOYBEAN LINES 2/17/12 to 9/30/14 RESEARCH	
	BEAVIS, WILLIAM AGRONOMY-AES/CALS	
\$95,176	MICHIGAN STATE UNIVERSITY	4042852
<b>117504</b>	TEACHERS EMPOWERED TO ADVANCE CHANGE IN MATHEMATICS (TEACH MATH) EVALUATION 9/1/11 to 8/31/13 RESEARCH	
CO-PI	ANDERSON, MARY SCHOOL OF EDUCATION-HS ANDREOTTI, ALEJANDRO SCHOOL OF EDUCATION-HS	
\$93,750	ADVANCED TECHNOLOGY INSTITUTE	4042063
<b>54211</b>	INSTRUMENTATION AND CONTROL FOR ENERGY EFFICIENCY AND PRODUCTIVITY 3/21/05 to 9/30/13 RESEARCH	
CO-PI	PETERS, FRANK INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR FRANK, MATTHEW INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR	
\$91,160	NSF-NATIONAL SCIENCE FOUNDATION	4204005
<b>113712</b>	COLLABORATIVE RESEARCH: BELOWGROUND DRIVERS OF ABOVEGROUND NUTRIENT CYCLING AND PRODUCTIVITY IN GROWING FORESTS 9/1/11 to 8/31/14 RESEARCH	
	RUSSELL, ANN NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$89,949	NSF-NATIONAL SCIENCE FOUNDATION	4204074
<b>118777</b>	LTREB RENEWAL: LONG-TERM RESEARCH ON ENVIRONMENTAL GENDER DETERMINATION IN A MODEL SYSTEM (CHRYSEMYS) 9/1/12 to 8/31/17 RESEARCH	
	JANZEN, FREDRIC ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	

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\$89,079	DOT-FEDERAL HIGHWAY ADMINISTRATION (FHWA)	4361704
<b>117299</b>	QUANTIFYING PAVEMENT ALBEDO	
	8/17/12 to 2/17/13 RESEARCH	
	ALLEMAN, JAMES CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	TAYLOR, PETER INSTITUTE FOR TRANSPORTATION-VPR/ED	
CO-PI	NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED	
\$87,390	MINNESOTA DEPARTMENT OF TRANSPORTATION	4001704
<b>116506</b>	INDEFINITE DELIVER/INDEFINITE QUANTITY	
	8/9/12 to 8/31/14 RESEARCH	
	GRANSBERG, DOUGLAS CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	SHANE, JENNIFER CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED	
\$84,000	NSF-NATIONAL SCIENCE FOUNDATION	4202143
<b>119701</b>	THE INTEGRATION OF CELLULAR STRESS RESPONSE, IMMUNE FUNCTION AND AGING IN LONG AND SHORT-LIVED ECOTYPES OF GARTER SNAKE	
	8/1/09 to 7/31/13 RESEARCH	
	BRONIKOWSKI, ANNE ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS	
\$83,145	NSF-NATIONAL SCIENCE FOUNDATION	4206077
<b>94520</b>	CAREER: SCULPTING ELECTRIC MACHINES FOR UNIDIRECTIONAL MOTION	
	8/15/09 to 7/31/14 RESEARCH	
	ALIPRANTIS, DIONYSIOS ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$80,000	SPECTRAL ENERGIES LLC	4042025
<b>117517</b>	APPLICATION OF BURST-MODE (KHZ-MHZ) LASER DIAGNOSTICS FOR COMBUSTION	
	5/16/12 to 5/15/13 RESEARCH	
	MEYER, TERRENCE MECHANICAL ENGINEERING-ENGR	
\$78,498	MINNESOTA DEPARTMENT OF TRANSPORTATION	4001706
<b>116494</b>	CARBONATE AGGREGATE IN CONCRETE	
	8/9/12 to 9/30/13 RESEARCH	
	WANG, KEJIN CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	BEKTAS, FATIH CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	

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\$78,498	MINNESOTA DEPARTMENT OF TRANSPORTATION	4001706
<b>116494</b>	CARBONATE AGGREGATE IN CONCRETE	
	8/9/12 to 9/30/13 RESEARCH	
CO-PI	NAMBISAN, SHASHI	INSTITUTE FOR TRANSPORTATION-VPR/ED
\$75,091	NSF-NATIONAL SCIENCE FOUNDATION	4202040
<b>119627</b>	MATERIALS WORLD NETWORK: AN INTERNATIONAL COLLABORATIVE EDUCATIONAL AND RESEARCH PROGRAM IN THE STUDY OF MIXED GLASS FORMER PHENOMENA IN MATERIALS	
	8/11/10 to 7/31/13 RESEARCH	
	MARTIN, STEVE	MATERIALS SCIENCE & ENGINEERING-ENGR
\$75,000	AMERICAN EGG BOARD	4594006
<b>119105</b>	A COMPARATIVE ASSESSMENT OF ENVIRONMENTAL FOOTPRINT OF U.S. EGG INDUSTRY IN 1950 AND 2010	
	8/6/12 to 8/5/13 RESEARCH	
	XIN, HONGWEI	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
\$74,999	NSF-NATIONAL SCIENCE FOUNDATION	4206075
<b>119469</b>	EAGER: SECURING WIRELESS NETWORK CODING AGAINST POLLUTION ATTACK AT THE PHYSICAL LAYER	
	9/1/12 to 8/31/13 RESEARCH	
	KIM, SANG	ELECTRICAL & COMPUTER ENGINEERING-ENGR
\$74,595	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	4042015
<b>118876</b>	PHASE 1 ENHANCED INTELLECTUAL SERVICES-DIRECT PRAC SUPPORT-COMPUTATIONAL CHEMISTRY AT THE PETASCALE	
	7/1/12 to 3/31/13 RESEARCH	
	LAMM, MONICA	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
\$71,291	IOWA DEPARTMENT OF PUBLIC HEALTH	4783020
<b>116369</b>	CONTINUATION OF SAFE ROUTES TO SCHOOL: THE I-WALK MODEL	
	7/23/12 to 6/30/13 EXTENSION/PUBLIC	
	SEEGER, CHRISTOPHER	LANDSCAPE ARCHITECTURE-DSN

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\$70,000	THE MCKNIGHT FOUNDATION		4004063
<b>119079</b>	DEVELOPING THE TOOLS AND KNOWLEDGE BASE TO STRATEGICALLY DESIGN AGRICULTURAL LANDSCAPES TO MEET MULTIFUNCTIONAL GOALS		
	9/1/12 to 8/31/14	RESEARCH	
	SCHULTE, LISA	NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$70,000	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP		4713065
<b>119398</b>	LOCAL FOOD AND FARM INITIATIVE FOR FY 2013		
	7/1/12 to 6/30/13	EXTENSION/PUBLIC	
	CHASE, CRAIG	EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
\$62,675	NSF-NATIONAL SCIENCE FOUNDATION		4206222
<b>116589</b>	COLLABORATIVE RESEARCH: RESILIENCY AGAINST COORDINATED CYBER ATTACKS ON POWER GRID		
	9/1/12 to 8/31/15	RESEARCH	
	GOVINDARASU, MANIMARAN	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$60,079	VA-U.S. DEPARTMENT OF VETERANS AFFAIRS		4284005
<b>119349</b>	EARLY DETECTION OF GLAUCOMA USING RAMAN SPECTROSCOPY		
	7/1/12 to 6/30/13	RESEARCH	
	YU, CHENXU	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$60,000	NATIONAL PORK BOARD		4532303
<b>119639</b>	OUTREACH AND EDUCATION FOR SWINE PRODUCERS AND SWINE VETERINARIANS		
	8/1/12 to 12/31/12	EXTENSION/PUBLIC	
	ROTH, JAMES	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	LEEDOM-LARSON, KERRY	CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET	
CO-PI	ZAABEL, PAM	CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET	
\$59,955	HHS-FOOD & DRUG ADMINISTRATION (FDA)		4302343
<b>119354</b>	EVALUATION OF SALMONELLA AND SYMPTOMATIC AND ASYMPTOMATIC PETS: STUDY FOR THE VET-LRN PROGRAM		
	9/16/11 to 9/15/13	RESEARCH	
	FRANA, TIMOTHY	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	ENSLEY, STEVE	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	JERGENS, ALBERT	VETERINARY CLINICAL SCIENCES-VET	

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\$59,685	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP		4713009
<b>118783</b>	IFL COVER CROP WORKING GROUP FOR FY 2013		
	7/1/12 to 6/30/13	EXTENSION/PUBLIC	
	COMITO, JACQUELINE	SOCIOLOGY-EXT	
CO-PI	LUNDVALL, JOHN	AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT	
\$59,157	NSF-NATIONAL SCIENCE FOUNDATION		4202104
<b>106393</b>	AN EXPERIMENTAL STUDY OF GLACIER SLIP OVER HARD AND SOFT BEDS		
	7/15/10 to 6/30/14	RESEARCH	
	IVERSON, NEAL	GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS	
CO-PI	COHEN-CORTICCHIATO, DENIS	GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS	
\$54,004	NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION		4222110
<b>115065</b>	SEARCH FOR UNIQUE SIGNATURE FROM EBL ABSORPTION		
	8/14/11 to 8/13/13	RESEARCH	
	KRENNRICH, FRANK	PHYSICS & ASTRONOMY-LAS	
\$52,384	NSF-NATIONAL SCIENCE FOUNDATION		4206032
<b>104785</b>	NETS: MEDIUM: COLLABORATIVE RESEARCH: MODELING, DESIGN AND EMULATION OF P2P REAL-TIME STREAMING NETWORKS		
	6/1/10 to 5/31/14	RESEARCH	
	YING, LEI	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$51,800	MONSANTO COMPANY		4004033
<b>117773</b>	PROJECTIONS OF POTENTIAL CORN ETHANOL PRODUCTION AND EXPORTS FROM ARGENTINA		
	5/1/12 to 12/31/12	RESEARCH	
	BABCOCK, BRUCE	ECONOMICS-AES/CALS	
\$50,041	USDA-FOREIGN AGRICULTURAL SERVICE (FAS)		4120544
<b>119624</b>	SERBIA ANIMAL HEALTH TECHNICAL ASSISTANCE		
	12/20/10 to 12/30/13	INSTRUCTION/TRAINING	
	UHLENHOPP, ELDON	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	

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\$50,000	UNITED TECHNOLOGIES CORPORATION-PRATT & WHITNEY DIVISION	4002020
<b>119333</b>	EXPERIMENTAL INVESTIGATION OF GRIT PULLOUT	
	7/1/12 to 12/31/12 RESEARCH	
	CHANDRA, ABHIJIT MECHANICAL ENGINEERING-ENGR	
CO-PI	BASTAWROS, ASHRAF AEROSPACE ENGINEERING-ENGR	
CO-PI	WLEZIEN, RICHARD AEROSPACE ENGINEERING-ENGR	
\$50,000	EVONIK INDUSTRIES	4007204
<b>119820</b>	CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP	
	8/1/12 to 7/31/13 RESEARCH	
	SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
\$48,761	ARIZONA STATE UNIVERSITY	4042816
<b>91367</b>	A WIRELESS, MULTIMODE, ARTIFICIAL NEURAL NETWORK-BASED PHYSICAL ACTIVITY MONITOR	
	9/19/08 to 6/30/13 RESEARCH	
	WELK, GREGORY KINESIOLOGY-HS	
\$46,757	SCHLUMBERGER FOUNDATION	4002513
<b>119426</b>	SCHLUMBERGER FOUNDATION FELLOWSHIP	
	8/1/12 to 7/31/13 FELLOWSHIP	
	MENNECKE, BRIAN SUPPLY CHAIN & INFORMATION SYSTEMS-BUS	
\$46,062	EGG NUTRITION CENTER	4004036
<b>118458</b>	PRODUCTION OF FOOD GRADE EGG LECITHIN WITH GREEN TECHNOLOGIES	
	8/6/12 to 8/5/13 RESEARCH	
	WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES/CALS	
CO-PI	CAMPBELL, CHRISTINA FOOD SCIENCE & HUMAN NUTRITION-HS	
CO-PI	WANG, HUI CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS	
\$45,114	NSF-NATIONAL SCIENCE FOUNDATION	4202105
<b>118267</b>	COLLABORATIVE RESEARCH: SI2-SSI: DEVELOPMENTS IN HIGH PERFORMANCE ELECTRONIC STRUCTURE THEORY, GRADUATE STUDENT/POSTDOC INTERNATIONAL TRAVEL	
	10/1/10 to 9/30/14 RESEARCH	
	GORDON, MARK CHEMISTRY-LAS	



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\$45,000	UNITED EGG PRODUCERS			4004003
<b>119107</b>	A COMPARATIVE ASSESSMENT OF ENVIRONMENTAL FOOTPRINT OF U.S. EGG INDUSTRY IN 1950 AND 2010			
	6/15/12 to 5/14/13	RESEARCH		
	XIN, HONGWEI		AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$45,000	UNITED TECHNOLOGIES CORPORATION			4002016
<b>119331</b>	HYBRID RANS/LES APPROACH TO TURBULENCE MODELING FOR TURBOMACHINES			
	7/1/12 to 6/30/13	RESEARCH		
	DURBIN, PAUL		AEROSPACE ENGINEERING-ENGR	
CO-PI	WLEZIEN, RICHARD		AEROSPACE ENGINEERING-ENGR	
\$45,000	CATERPILLAR INC			4001701
<b>119509</b>	SOIL MOISTURE SENSOR DEVELOPMENT FOR COMPACTION MACHINES			
	7/1/12 to 12/31/12	RESEARCH		
	WHITE, DAVID		CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	NAMBISAN, SHASHI		INSTITUTE FOR TRANSPORTATION-VPR/ED	
\$42,539	IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP			4714004
<b>119530</b>	IMPACTS OF CROPPING, TILLAGE AND PHOSPHORUS MANAGEMENT SYSTEMS ON SOIL AND PHOSPHORUS LOSS WITH SURFACE RUNOFF			
	1/1/12 to 6/30/13	RESEARCH		
	MALLARINO, ANTONIO		AGRONOMY-AES/CALS	
CO-PI	HELMERS, MATTHEW		AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$40,000	IOWA DEPARTMENT OF TRANSPORTATION			4741722
<b>119300</b>	STATEWIDE HEAVY TRUCK CRASH ASSESSMENT			
	7/1/12 to 6/30/13	RESEARCH		
	HANS, ZACHARY		INSTITUTE FOR TRANSPORTATION-VPR/ED	
CO-PI	GKRITZA, KONSTANTINA		CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	NAMBISAN, SHASHI		INSTITUTE FOR TRANSPORTATION-VPR/ED	
\$40,000	IOWA DEPARTMENT OF NATURAL RESOURCES			4734050
<b>119690</b>	IOWA COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT BASE FUNDING FY13			
	7/1/12 to 6/30/13	RESEARCH		
	KLAVER, ROBERT		NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	

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\$40,000	IOWA DEPARTMENT OF NATURAL RESOURCES			4734050
<b>119690</b>	IOWA COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT BASE FUNDING FY13			
	7/1/12 to 6/30/13	RESEARCH		
CO-PI	PIERCE, CLAY		NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$36,076	EPA-U.S. ENVIRONMENTAL PROTECTION AGENCY			4294602
<b>119710</b>	EPA STAR GRADUATE FELLOWSHIP			
	8/6/10 to 8/5/13	FELLOWSHIP		
CO-PI	JANZEN, FREDRIC		ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	
	TELEMECO, RORY		ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	
\$35,000	GENERAL ELECTRIC COMPANY			4002519
<b>118648</b>	CENTER FOR NDE MEMBERSHIP			
	8/3/12 to 8/2/13	RESEARCH		
	BRASCHE, LISA		CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED	
\$35,000	ARIZONA STATE UNIVERSITY			4006006
<b>119280</b>	EXPLOITING EMERGING DATA FOR ENHANCED LOAD MODELING (S-49)			
	6/1/12 to 8/31/13	RESEARCH		
	ALIPRANTIS, DIONYSIOS		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$35,000	UNIVERSITY OF NORTHERN IOWA			4754013
<b>119641</b>	DEVELOPING A NOVEL ALGAL CULTURE SYSTEM AS LIFE SUPPORT SYSTEM UNDER MICROGRAVITY CONDITIONS			
	5/17/12 to 5/16/13	RESEARCH		
	WEN, ZHIYOU		FOOD SCIENCE & HUMAN NUTRITION-AES/CALS	
\$35,000	TOYOTA MOTOR NORTH AMERICA INC			4002519
<b>119895</b>	INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH PROGRAM NDE MEMBERSHIP			
	10/18/11 to 10/17/12	RESEARCH		
	BRASCHE, LISA		CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED	

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\$32,750	UNIVERSITY OF MINNESOTA TWIN CITIES		4103021
<b>118703</b>	IOWA 2012 SARE PROFESSIONAL DEVELOPMENT PLAN OF WORK, CHAPTER 3		
	5/1/12 to 4/30/15	EXTENSION/PUBLIC	
	LAWRENCE, JOHN	EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
CO-PI	LARSON, ANDREW	EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
\$30,000	UNIVERSITY OF IOWA		4752107
<b>119392</b>	IMPROVED MESOSCALE MODEL RAINFALL FORECASTS FOR FLOOD FORECASTING AT THE IOWA FLOOD CENTER-USE OF RADAR DATA ASSIMILATION FOR NOWCASTING		
	7/1/10 to 6/30/13	RESEARCH	
	GALLUS, WILLIAM	GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS	
\$29,070	IOWA DEPARTMENT OF NATURAL RESOURCES		4734201
<b>118466</b>	LEOPOLD CENTER SUPPORT		
	10/1/11 to 6/30/12	RESEARCH	
	RASMUSSEN, MARK	LEOPOLD CENTER-AES/CALS	
\$25,000	IOWA PORK PRODUCERS ASSOCIATION		4532329
<b>119683</b>	THE USE OF PROBIOTICS AS AN AID IN THE CONTROL OF CLOSTRIDIUM DIFICILE ASSOCIATED DISEASE IN NEONATAL PIGS		
	9/1/12 to 8/31/13	RESEARCH	
	RAMIREZ, ALEJANDRO	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	ROWE, ERIC	BIOMEDICAL SCIENCES-VET	
CO-PI	MADSON, DARIN	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	ARRUDA, PAULO	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
\$21,269	DOI-U.S. DEPARTMENT OF INTERIOR		4244004
<b>119379</b>	ESTIMATING BREEDING POPULATIONS OF CANADA GEESE IN THE MIDWEST: A MODEL TO PREDICT CANADA GOOSE BREEDING PAIR DENSITIES USING NATIONAL WETLANDS INVENTORY DATA		
	8/1/12 to 12/31/13	RESEARCH	
	KLAVER, ROBERT	NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$20,508	NSF-NATIONAL SCIENCE FOUNDATION		4412006
<b>104620</b>	A 21ST CENTURY REVITALIZED RESEARCH AND RESEARCH TRAINING INFRASTRUCTURE FOR CHEMICAL AND BIOLOGICAL ENGINEERING		
	10/1/10 to 9/30/13	MISCELLANEOUS	
	MALLAPRAGADA, S.	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
CO-PI	SHANKS, BRENT	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	

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\$20,508	NSF-NATIONAL SCIENCE FOUNDATION	4412006
<b>104620</b>	A 21ST CENTURY REVITALIZED RESEARCH AND RESEARCH TRAINING INFRASTRUCTURE FOR CHEMICAL AND BIOLOGICAL ENGINEERING 10/1/10 to 9/30/13 MISCELLANEOUS	
CO-PI	NARASIMHAN, BALAJI	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
CO-PI	SHANKS, JACQUELINE	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
CO-PI	FOX, RODNEY	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
\$20,000	USDA-ECONOMIC RESEARCH SERVICE (ERS)	4124612
<b>119603</b>	COOPERATIVE AGREEMENT: EXPERIMENTS TO ASSESS CONSUMERS' WILLINGNESS TO PAY FOR ORGANIC FOODS CARRYING THE USDA'S ORGANIC SEAL 8/20/12 to 9/30/13 RESEARCH HUFFMAN, WALLACE ECONOMICS-AES/CALS	
\$20,000	KIRKWOOD COMMUNITY COLLEGE	4042805
<b>119700</b>	EVALUATION OF COMMUNITY COLLEGE INITIATIVE PROGRAM (MULTI-NATIONAL) 6/1/12 to 4/15/14 RESEARCH KEMIS, MARI SCHOOL OF EDUCATION-HS	
\$19,192	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)	4194020
<b>105496</b>	HEAT AND MOISTURE PRODUCTION RATES OF MODERN SWINE AND THEIR HOUSING SYSTEMS 2/1/10 to 3/31/13 RESEARCH XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$19,000	IOWA DEPARTMENT OF NATURAL RESOURCES	4734448
<b>119772</b>	ACOUSTIC TRANSECT MONITORING AND WHITE-NOSE SYNDROME RESPONSE PLAN FOR IOWA BATS 8/20/12 to 7/1/13 RESEARCH BLANCHONG, JULIE NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS CO-PI CHRISTOFFEL, REBECCA NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$18,900	VI-COR	4006528
<b>119689</b>	THE EFFECTS OF YEAST ADDITIVE SUPPLEMENTATION ON PERFORMANCE, BODY COMPOSITION, AND INTESTINAL MUCIN OF FIRST-CYCLE LAYING HENS 6/1/12 to 5/31/13 RESEARCH PERSIA, MICHAEL ANIMAL SCIENCE-AES/CALS CO-PI FORNEY, CRAIG INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VPF	

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\$18,427	MICHIGAN STATE UNIVERSITY	4102807
<b>117588</b>	RURAL SOCIAL MEDIA CHAMPIONS: DEVELOPMENT OF MODELS OF DIFFUSION AND BEST PRACTICES	
	9/15/12 to 9/14/13 RESEARCH	
	NIEHM, LINDA APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS	
\$17,250	UNIVERSITY OF MINNESOTA TWIN CITIES	4103017
<b>118702</b>	IOWA 2012 SARE PROFESSIONAL DEVELOPMENT PLAN OF WORK, CHAPTER 1	
	5/1/12 to 4/30/15 EXTENSION/PUBLIC	
	LAWRENCE, JOHN EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
	CO-PI LARSON, ANDREW EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
\$16,914	IOWA PORK PRODUCERS ASSOCIATION	4524006
<b>119848</b>	COMPARING HEAT LAMP VS HEAT MAT FOR FARROWING CRATE HEATING	
	9/1/12 to 3/1/14 RESEARCH	
	XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$16,744	ST JUDE CHILDRENS RESEARCH HOSPITAL	4042802
<b>119593</b>	PHYSICAL ACTIVITY TO MODIFY SEQUELAE AND QOL IN CHILDHOOD ALL: A NURSING TRIAL	
	6/1/12 to 5/31/13 RESEARCH	
	WELK, GREGORY KINESIOLOGY-HS	
\$15,940	NSF-NATIONAL SCIENCE FOUNDATION	4206605
<b>118288</b>	PLANNING GRANT: I/UCRC FOR ARTHROPOD MANAGEMENT TECHNOLOGIES	
	9/1/12 to 8/31/13 MISCELLANEOUS	
	BONNING, BRYONY ENTOMOLOGY-AES/CALS	
\$15,000	THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING INC	4002510
<b>116623</b>	DIELECTROMETRY SENSORS FOR NDE OF GLASS-FIBER POLYMER-MATRIX COMPOSITES	
	7/1/12 to 6/30/13 FELLOWSHIP	
	BOWLER, NICOLA MATERIALS SCIENCE & ENGINEERING-ENGR	

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\$15,000	USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)			4120514
<b>119600</b>	VIRAL HEMORRHAGIC SEPTICEMIA (VHS) EDUCATIONAL WEBSITE MAINTENANCE			
	8/1/12 to 7/31/13	EXTENSION/PUBLIC		
	ROTH, JAMES		VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	DVORAK, GLENDA		CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET	
\$15,000	IOWA DEPARTMENT OF INSPECTION AND APPEALS			4783003
<b>119729</b>	KNOWLEDGE AND AWARENESS OF FOODBORNE ILLNESS			
	7/1/12 to 5/15/13	RESEARCH		
	STROHBEHN, CATHERINE		APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-EXT	
CO-PI	RAJAGOPAL, LAKSHMAN		APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS	
CO-PI	WOHLSDORF-ARENDR, SUSAN		APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS	
\$15,000	CITY OF AMES, IOWA			4006053
<b>119918</b>	CITY OF AMES, EPRC			
	7/1/12 to 6/30/13	RESEARCH		
	CHRISTY, COLIN		ELECTRICAL & COMPUTER ENGINEERING-ENGR	
\$13,045	UCHICAGO ARGONNE LLC-ARGONNE NATIONAL LABORATORY			4042102
<b>119823</b>	JOINT APPOINTMENT AGREEMENT SANCHEZ			
	8/16/12 to 8/15/13	RESEARCH		
	SANCHEZ, MAYLY		PHYSICS & ASTRONOMY-LAS	
\$12,500	IOWA VETERINARY MEDICAL ASSOCIATION			4002343
<b>113352</b>	USE OF AN IMPLANTABLE DEVICE FOR IN VIVO DETECTION MYCOBACTERIUM AVIUM PARATUBERCULOSIS (MAP) IN ASYMPTOMATIC CALVES			
	10/31/11 to 10/31/13	RESEARCH		
	HOSTETTER, JESSE		VETERINARY PATHOLOGY-VET	
CO-PI	JONES, DOUGLAS		VETERINARY PATHOLOGY-VET	
\$12,000	HELENA CHEMICAL COMPANY			4004130
<b>119299</b>	TURF POTASSIUM STUDY			
	6/16/12 to 12/31/12	RESEARCH		
	CHRISTIANS, NICK		HORTICULTURE-AES/CALS	

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	\$11,500	NSF-NATIONAL SCIENCE FOUNDATION		4202055
<b>118335</b>		COLLABORATIVE RESEARCH: PLANNING GRANT: I/UCRC FOR WIND ENERGY, SCIENCE, TECHNOLOGY, AND RESEARCH (WINDSTAR)		
		8/15/12 to 7/31/13	RESEARCH	
		FRANK, MATTHEW	INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR	
	CO-PI	TAKLE, GENE	AGRONOMY-AES/CALS	
	CO-PI	SRITHARAN, SIVALINGAM	CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
	CO-PI	PETERS, FRANK	INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR	
	CO-PI	BRASCHE, LISA	CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED	
	\$11,497	CITY OF DES MOINES, IOWA		4000705
<b>119802</b>		NEIGHBORHOOD PLANS FOR THE BEAVERDALE AND WOODLAND HEIGHTS NEIGHBORHOODS IN DES MOINES		
		8/1/12 to 5/4/13	INSTRUCTION/TRAINING	
		RONGERUDE, JANE	COMMUNITY & REGIONAL PLANNING-DSN	
	\$10,764	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	
	\$9,670	IOWA DEPARTMENT OF PUBLIC HEALTH		4784040
<b>119787</b>		EPIDEMIOLOGY AND LABORATORY CAPACITY FOR INFECTIOUS DISEASES (ELC)		
		1/1/12 to 12/31/12	RESEARCH	
		BARTHOLOMAY, LYRIC	ENTOMOLOGY-AES/CALS	
	\$9,000	COMMUNITY PARTNERS		4103919
<b>119320</b>		ANNIES LEADERSHIP FOR "EMPOWERING WOMEN VETERANS: SUCCESS IN AGRICULTURE BUSINESS AND WELL-BEING CONFERENCE"		
		5/1/12 to 7/8/12	EXTENSION/PUBLIC	
		SCHULTZ, MADELINE	VALUE ADDED AGRICULTURE-EXT	
	\$8,880	KANSAS STATE UNIVERSITY		4042309
<b>119950</b>		VECTOR BORNE TRANSMISSION OF LEISHMANIA INFANTUM IN THE UNITED STATES		
		8/23/12 to 1/31/13	RESEARCH	
		PETERSEN, CHRISTINE	VETERINARY PATHOLOGY-VET	

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\$8,625	KEMIN INDUSTRIES				4004170
<b>119610</b>	COMPARING RADICLE B WITH CEASE AS A MICROBIAL FUNGICIDE ON TOMATO PLANTS				
	1/1/11 to 6/30/13	RESEARCH			
	GLADON, RICHARD		HORTICULTURE-AES/CALS		
\$7,772	STORY COUNTY AGRICULTURAL EXTENSION DISTRICT				4003015
<b>119831</b>	DEVELOPMENT AND DELIVERY OF THE 2012 IOWA MIDWEST COMPOSTING SCHOOL				
	7/1/12 to 8/31/12	EXTENSION/PUBLIC			
	ARORA, KAPIL		EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT		
\$7,541	GREENSHIFT CORPORATION				4004407
<b>119780</b>	EVALUATION OF CORN OIL BASED PLASTIC MULCH IN VEGETABLE PRODUCTION SYSTEMS				
	8/15/12 to 12/15/12	RESEARCH			
	NAIR, AJAY		HORTICULTURE-AES/CALS		
\$7,500	USDA-FOREST SERVICE (FS)				4124516
<b>119270</b>	LANDSCAPE INFLUENCES ON WATER USE AND QUALITY ACROSS BIOMASS CROPPING SYSTEMS				
	8/16/12 to 12/31/16	RESEARCH			
	SCHULTE, LISA		NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS		
	CO-PI HELMERS, MATTHEW		AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS		
\$7,000	BAYER CROP SCIENCE				4003001
<b>118695</b>	EVALUATION OF BAYER CROP SCIENCE GE SOYBEAN CULTIVAR				
	4/30/12 to 12/31/12	EXTENSION/PUBLIC			
	OWEN, MICHEAL		AGRONOMY-AES/CALS		
\$7,000	BAYER CROP SCIENCE				4003002
<b>119058</b>	PROTOCOL NO. BP12NARMRF-EVALUATION OF BAYER CROP SCIENCE WEED MANAGEMENT TECHNIQUES				
	4/30/12 to 12/31/12	RESEARCH			
	OWEN, MICHEAL		AGRONOMY-AES/CALS		



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\$6,552 STOLLER ENTERPRISES

4004139

- 119781** EVALUATE THE EFFECT OF SEED POWER® ON LETTUCE SEED GERMINATION, YIELD ENHANCEMENT, AND POSSIBLE INTERACTION WITH CONVENTIONAL FUNGICIDES  
8/15/12 to 12/15/12 RESEARCH  
NAIR, AJAY HORTICULTURE-AES/CALS

\$6,496 AJINOMOTO CO, INC

4004309

- 119650** FIELD STUDY OF A MICROBIOLOGICAL PRODUCT ON SOYBEAN YIELD AND QUALITY  
7/18/12 to 3/31/13 RESEARCH  
LENSSSEN, ANDREW AGRONOMY-AES/CALS

\$6,400 ISK BIOSCIENCES

4004132

- 119429** EVALUATE TWO RATES OF OMEGA 500F AND TWO RATES OF IKF-5411 ALONE AND IN TANK MIXES FOR CONTROL OF SCLEROTINIA ON SOYBEAN  
5/1/12 to 5/1/13 RESEARCH  
YANG, XIAO PLANT PATHOLOGY-AES/CALS  
CO-PI NAVI, SHRISHAIL PLANT PATHOLOGY-AES/CALS

\$5,731 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

4194002

- 119984** PLANT EXPLORATION IN THE UNITED STATES TO COLLECT SUNFLOWER GERMPLOSM FOR CROP IMPROVEMENT  
9/7/12 to 9/6/14 MISCELLANEOUS  
MAREK, LAURA AGRONOMY-AES/CALS

\$5,500 AJINOMOTO USA INC

4004133

- 119385** AJINOMOTO BIOSTIMULANT TRIAL-2012  
6/26/12 to 12/31/12 RESEARCH  
CHRISTIANS, NICK HORTICULTURE-AES/CALS

\$5,278 UNIVERSITY OF MASSACHUSETTS AMHERST

4103016

- 118057** CORE HEALTH MESSAGES: A STRATEGY TO IMPROVE THE HEALTH AND WELL-BEING OF RURAL LOW-INCOME FAMILIES  
9/1/11 to 8/31/12 EXTENSION/PUBLIC  
GREDER, KIMBERLY HUMAN DEVELOPMENT & FAMILY STUDIES-EXT

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\$5,000	ACADEMY OF NUTRITION AND DIETETICS FOUNDATION	4002807
<b>117918</b>	DEVELOPMENT OF A FOOD ALLERGY TRAINING PROGRAM FOR COLLEGE AND UNIVERSITY FOODSERVICE ESTABLISHMENTS 8/1/12 to 7/31/13 RESEARCH RAJAGOPAL, LAKSHMAN APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS	
\$5,000	GENOMATICA INC	4007204
<b>118742</b>	CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP 4/5/12 to 4/4/13 RESEARCH SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
\$5,000	SOLAZYME INC	4007204
<b>118763</b>	CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP 4/16/12 to 4/15/13 RESEARCH SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
\$5,000	BIOMIN GMBH	4004037
<b>119108</b>	INTERACTIONS OF ENZYMES AND DFMS ON THE ENERGY METABOLISM OF GROWING BROILER CHICKS 6/1/12 to 11/30/12 RESEARCH PERSIA, MICHAEL ANIMAL SCIENCE-AES/CALS CO-PI MURUGESAN, GANAPATHI ANIMAL SCIENCE-AES/CALS	
\$5,000	ELEVANCE RENEWABLE SCIENCES INC	407204
<b>119161</b>	CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP 5/4/12 to 5/3/13 RESEARCH SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
\$5,000	USDA-FOREST SERVICE (FS)	4124563
<b>119394</b>	GETTING CONSERVATION BUFFERS ON THE GROUND-EQUIPPING NATURAL RESOURCE PROFESSIONALS FOR MULTI-OBJECTIVE/MULTI-FUNCTIONAL LANDSCAPE DESIGN AND PLANNING 8/5/09 to 8/31/13 RESEARCH FLORA, CORNELIA SOCIOLOGY-AES/CALS	

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\$5,000	MICHIGAN BIOTECHNOLOGY INSTITUTE			4007204
<b>119812</b>	CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP			
	8/10/12 to 8/9/13	RESEARCH		
	SHANKS, BRENT		CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
\$4,500	NUMERATOR TECHNOLOGIES INC			4004053
<b>119925</b>	NUMERATOR SURFACTANT TRIAL			
	8/20/12 to 12/31/12	RESEARCH		
	CHRISTIANS, NICK		HORTICULTURE-AES/CALS	
\$4,000	UNIVERSITY OF NORTHERN IOWA			4753006
<b>116825</b>	GREEN HOLIDAYS: TRAINING TRAINERS TO CREATE SOCIO-CULTURAL-ENVIRONMENTAL CHANGE			
	8/27/12 to 2/28/14	EXTENSION/PUBLIC		
	WARNING, JEANNE		EXTENSION TO FAMILIES-EXT	
CO-PI	COOPER, KRISTI		EXTENSION TO FAMILIES-EXT	
\$4,000	GARDENS ALIVE			4004043
<b>118789</b>	EFFECTIVENESS OF THE IMIDACLOPRID PATCH FOR JAPANESE BEETLE ON ROSES			
	5/15/12 to 9/30/12	RESEARCH		
	HONEYMAN, MARK		ISU RESEARCH AND DEMONSTRATION FARMS-AES/CALS	
CO-PI	VANDERZANDEN, ANN		HORTICULTURE-AES/CALS	
\$3,500	DOI-U.S. DEPARTMENT OF INTERIOR			4244011
<b>119414</b>	COMPARISON OF AMPHIBIAN HABITAT SUITABILITY IN USDA CREP WETLANDS AND NATURAL WETLANDS IN THE DES MOINES LOBE OF IOWA			
	9/22/11 to 12/31/13	RESEARCH		
	PIERCE, CLAY		NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS	
\$2,560	IOWA DEPARTMENT OF PUBLIC HEALTH			4782109
<b>119684</b>	MOU-2013-ISU25			
	7/1/12 to 6/30/13	RESEARCH		
	SHELLEY, MACK		STATISTICS-LAS	

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\$2,000	UNIVERSITY OF NORTHERN IOWA			4753007
<b>117554</b>	GREEN HOLIDAYS			
	8/27/12 to 4/30/14	EXTENSION/PUBLIC		
	WARNING, JEANNE	EXTENSION TO FAMILIES-EXT		
CO-PI	COOPER, KRISTI	EXTENSION TO FAMILIES-EXT		
\$1,955	KEMIN INDUSTRIES			4004170
<b>119607</b>	COMPARISON OF THE EFFICACY OF COMPONENTS OF RADICLE B ON THE PREVENTION OF PATHOGENICITY OF TOMATO PLANTS BY SEPTORIA LEAF SPOT DISEASE			
	1/1/11 to 6/30/13	RESEARCH		
	GLADON, RICHARD	HORTICULTURE-AES/CALS		
\$1,340	LUTHERAN SERVICES IN IOWA			4003029
<b>117261</b>	LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM			
	9/1/11 to 8/31/12	EXTENSION/PUBLIC		
	TALLMAN, KELI	EXTENSION 4-H YOUTH DEVELOPMENT-EXT		
\$1,000	MICHIGAN STATE UNIVERSITY			4104067
<b>115130</b>	NORTH CENTRAL REGIONAL AQUACULTURE CENTER EXTENSION PROJECT			
	9/1/11 to 8/31/13	INSTRUCTION/TRAINING		
	MORRIS, JOSEPH	NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS		
\$1,000	GROUP IV BIOSYSTEMS			4007204
<b>119611</b>	CENTER FOR BIORENEWAL CHEMICALS (CBIRC) MEMBERSHIP			
	7/7/12 to 7/6/13	RESEARCH		
	SHANKS, BRENT	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR		
\$281	USDA-AGRICULTURAL RESEARCH SERVICES (ARS)			4194830
<b>117420</b>	RESEARCH SUPPORT AGREEMENT			
	10/1/11 to 9/30/12	RESEARCH		
	LAMKEY, KENDALL	AGRONOMY-AES/CALS		