I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

486

$2,702,674 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

118686 2012 HATCH RESEARCH

10/1/11 to 9/30/13 RESEARCH
WINTERSTEEN, WENDY
AGRICULTURE & HOME ECONOMICS EXPERIMENT STATION-AES/CALS

$1,095,662 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

118691 2012 HATCH MULTISTATE RESEARCH

10/1/11 to 9/30/13 RESEARCH
WINTERSTEEN, WENDY
AGRICULTURE & HOME ECONOMICS EXPERIMENT STATION-AES/CALS

$1,032,455 IOWA DEPARTMENT OF NATURAL RESOURCES

118466 LEOPOLD CENTER SUPPORT

10/1/11 to 6/30/12 RESEARCH
HONEYMAN, MARK
LEOPOLD CENTER-AES/CALS

$562,500 NSF-NATIONAL SCIENCE FOUNDATION

116399 AF: MEDIUM: PARALLEL ALGORITHMS AND SOFTWARE FOR HIGH-THROUGHPUT SEQUENCE ASSEMBLY

5/1/12 to 4/30/15 RESEARCH
ALURU, SRINIVAS
DORMAN, KARIN
SCHNABLE, PATRICK
ELECTRICAL & COMPUTER ENGINEERING-ENGR
STATISTICS-LAS
AGRONOMY-AES/CALS

$550,938 DOE-U.S. DEPARTMENT OF ENERGY

93016 OPERATING AND MANAGEMENT SUPPORT FOR THE AMES LABORATORY

11/1/08 to 12/31/15 RESEARCH
KING, ALEXANDER
AMES LABORATORY

$506,637 NIH-NATIONAL INSTITUTES OF HEALTH

111962 DNA TARGETING BY TAL EFFECTORS

5/1/12 to 4/30/13 RESEARCH
BOGDANOVEL, ADAM
PLANT PATHOLOGY-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

$506,563 INDIANA UNIVERSITY

117077 IPGA: CHARACTERIZATION, MODELING, PREDICTION, AND VISUALIZATION OF THE PLANT TRANSCRIPTOME
1/1/12 to 8/31/13 RESEARCH
DORMAN, KARIN STATISTICS-LAS

$499,992 DOD-DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)

118265 DOD-DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)

5/24/12 to 5/17/13 RESEARCH
CHANG, JIEN ELECTRICAL & COMPUTER ENGINEERING-ENGR
CHU, CHRIS ELECTRICAL & COMPUTER ENGINEERING-ENGR
KAMAL, AHMED ELECTRICAL & COMPUTER ENGINEERING-ENGR
GILBERT, STEPHEN INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$478,872 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

118677 EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM 2012 FORMULA-IOWA

10/1/11 to 9/30/16 EXTENSION/PUBLIC
MARTIN, PEGGY EXTENSION TO FAMILIES-EXT

$435,911 DOD-DEFENSE LOGISTICS AGENCY (DLA)

118260 IOWA PROCUREMENT TECHNICAL ASSISTANCE CENTER

7/1/12 to 6/30/13 EXTENSION/PUBLIC
BOGACZYK, DAVID CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT
COX, RONALD CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT

$425,000 NSF-NATIONAL SCIENCE FOUNDATION

115758 UNDERSTANDING THE GEOGRAPHICAL AND COMMUNITY CONTEXT OF MUTUALISM: FIG-FIG WASP INTERACTIONS IN THE SONORAN DESERT
9/1/12 to 8/31/15 RESEARCH
NASON, JOHN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$400,000 NSF-NATIONAL SCIENCE FOUNDATION

115830 CAREER: STABILITY ANALYSIS AND CONTROL OF UNCERTAIN NETWORK CONTROLLED SYSTEM IN NONEQUILIBRIUM

7/1/12 to 6/30/17 RESEARCH
VAIDYA, UMESH ELECTRICAL & COMPUTER ENGINEERING-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

$380,651 NSF-NATIONAL SCIENCE FOUNDATION

95982 OPTIMAL SIRNA DESIGN BASED ON WHOLE GENOME THERMODYNAMIC ANALYSIS

9/1/09 to 8/31/14 RESEARCH
CHOU, HUI-HSIEN

GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

$323,165 NIH-NATIONAL INSTITUTES OF HEALTH

113781 MECHANISMS OF MANGANESE NEUROTOXICITY

8/11/11 to 3/30/13 RESEARCH
KANTHASAMY, ANUMANTHA

BIOMEDICAL SCIENCES-VET

KANTHASAMY, ARTHI

BIOMEDICAL SCIENCES-VET

$321,693 NIH-NATIONAL INSTITUTES OF HEALTH

94529 STRUCTURAL STUDIES OF A T CELL SPECIFIC TYROSINE KINASE

5/1/12 to 4/30/13 RESEARCH
ANDREOTTI, AMY

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS

$318,553 NIH-NATIONAL INSTITUTES OF HEALTH

90055 REGULATION OF T CELL SIGNALING: STRUCTURAL STUDIES OF PLCG1

5/1/08 to 4/30/13 RESEARCH
ANDREOTTI, AMY

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS

$316,877 NIH-NATIONAL INSTITUTES OF HEALTH

90346 CHARACTERIZATION OF A COMPLEX REGULATORY ELEMENT OF SPINAL MUSCULAR ATROPHY GENES

7/1/12 to 6/30/13 RESEARCH
SINGH, RAVINDRA

BIOMEDICAL SCIENCES-VET

$281,935 NIH-NATIONAL INSTITUTES OF HEALTH

114292 REGULATION OF SNARE-DEPENDENT VESICLE FUSION

5/1/12 to 4/30/13 RESEARCH
SHIN, YEON-KYUN

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$270,225 ED-U.S. DEPARTMENT OF EDUCATION

116617 PELL GRANT, FY12

7/1/11 to 6/30/12 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$267,011 NSF-NATIONAL SCIENCE FOUNDATION

105142 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
BECKMAN, SCOTT MATERIALS SCIENCE & ENGINEERING-ENGR

$246,956 SOUTH DAKOTA STATE UNIVERSITY

116234 LOW MOISTURE ANHYDROUS AMMONIA (LMAA) PRETREATMENT PROCESS OF CORN STOVER FOR PRODUCTION OF BUTANOL AND INTEGRATION WITH LONG TERM STORAGE

3/26/12 to 5/31/15 RESEARCH
ROSENTRATER, KURT AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$219,000 NSF-DIRECTORATE FOR BIOLOGICAL SCIENCES (BIO)

115774 COLLABORATIVE RESEARCH: GENOMIC CONSEQUENCES OF RECENT AND ANCIENT ALLOPOLYPLOIDY: A CONTINUUM OF AGES IN TRAGOPOGON (ASTERACEAE)

6/1/12 to 5/31/14 RESEARCH
SCHNABLE, PATRICK AGRONOMY-AES/CALS

$215,725 DOD-NAVY-NAVAL AIR SYSTEMS COMMAND (NAVAIR)

111515 ENVIRONMENTALLY BENIGN INJECTION REPAIRS OF HIGH TEMPERATURE COMPOSITES WITH CYANATE ESTER RESINS

6/8/11 to 3/7/13 RESEARCH
KESSLER, MICHAEL MATERIALS SCIENCE & ENGINEERING-ENGR
AKINC, MUFIT MATERIALS SCIENCE & ENGINEERING-ENGR

$200,000 NSF-NATIONAL SCIENCE FOUNDATION

113803 EVOLUTIONARY CONVERGENCE OR PARALLELISM? EXAMINING RECURRENT PATTERNS OF PHENOTYPIC EVOLUTION IN MARINE SCALLOPS

8/1/11 to 7/31/14 RESEARCH
SERB, JEANNE ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS
ADAMS, DEAN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

CO-PI KINCAID, MUFAI

CO-PI KINCAID, MUFAI
May 01 - 31, 2012

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$200,000 DEERE & COMPANY

118564 COMBINE CONTROL DEVELOPMENT, PHASE 1

7/1/12 to 10/30/12 RESEARCH
DARR, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$191,476 CORNELL UNIVERSITY

113748 NORTHERN GRAPES: INTEGRATING VITICULTURE, WINEMAKING, AND MARKETING OF NEW COLD-HARDY CULTIVARS SUPPORTING NEW AND GROWING RURAL WINERIES

9/1/11 to 8/31/12 RESEARCH
DHARMADHIKARI, MURLIDHAR FOOD SCIENCE & HUMAN NUTRITION-AES/CALS
KOZIEL, JACEK AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
NONNECKE, GAILHORTICULTURE-AES/CALS
DOMOTO, PAUL HORTICULTURE-AES/CALS

$182,607 NIH-NATIONAL INSTITUTES OF HEALTH

113483 SMALL OLIGONUCLEOTIDES AS THERAPEUTIC AGENTS OF SPINAL MUSCULAR ATROPHY

7/1/12 to 6/30/13 RESEARCH
SINGH, RAVINDRA BIOMEDICAL SCIENCES-VET
SINGH, NATALIA BIOMEDICAL SCIENCES-VET

$153,093 UNITED SOYBEAN BOARD

117221 THE USE OF VIGS TECHNOLOGY TO DECREASE YIELD-REDUCING STRESS IN SOYBEANS

6/1/11 to 5/31/13 RESEARCH
HILL, JOHN PLANT PATHOLOGY-AES/CALS
WHITHAM, STEVEN PLANT PATHOLOGY-AES/CALS

$151,004 NSF-NATIONAL SCIENCE FOUNDATION

113990 MOLECULAR MECHANISMS OF THE MRE11/RAD50 DNA REPAIR COMPLEX

9/1/11 to 8/31/15 RESEARCH
NELSON, SCOTT BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS

$150,000 IOWA DEPARTMENT OF TRANSPORTATION

104129 WORK PLAN FOR THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS PROGRAM

7/1/09 to 6/30/12 RESEARCH
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

$150,000 IOWA DEPARTMENT OF TRANSPORTATION

104129 WORK PLAN FOR THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS PROGRAM

7/1/09 to 6/30/12 RESEARCH

CO-PI STEVENS, LARRY INSTITUTE FOR TRANSPORTATION-VPR/ED

$145,000 NSF-NATIONAL SCIENCE FOUNDATION

115712 BONDING ANALYSIS OF AB INITIO ELECTRONIC WAVE FUNCTIONS IN MOLECULES

5/1/12 to 4/30/15 RESEARCH

CO-PI RUEDENBERG, KLAUS CHEMISTRY-LAS

CO-PI GORDON, MARK CHEMISTRY-LAS

$140,000 PENNSYLVANIA STATE UNIVERSITY

113942 TIGHTLY COUPLED MECHANISTIC STUDY OF MATERIALS IN THE EXTREME SPACE ENVIRONMENT

7/1/11 to 12/31/15 RESEARCH

CO-PI RAJAN, KRISHNA MATERIALS SCIENCE & ENGINEERING-ENGR

$139,131 DOD-AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)

115073 NANO-ZIRCONIUM TUNGSTATE REINFORCED LIQUID CRYSTALLINE THERMOSETTING WITH NEAR ZERO THERMAL EXPANSION

3/15/12 to 3/14/15 RESEARCH

CO-PI KESSLER, MICHAEL MATERIALS SCIENCE & ENGINEERING-ENGR

$137,333 MIDWEST DAIRY ASSOCIATION

118767 2012 MIDWEST DAIRY RESEARCH FUNDING

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

CO-PI CLARK, STEPHANIE FOOD SCIENCE & HUMAN NUTRITION-HS

CO-PI BREHM-STECHER, BYRON FOOD SCIENCE & HUMAN NUTRITION-HS

CO-PI BOYLSTON, TERRI FOOD SCIENCE & HUMAN NUTRITION-HS

$130,000 NSF-NATIONAL SCIENCE FOUNDATION

105553 STRUCTURE-COMPOSITION-PROPERTY RELATIONSHIPS IN COMPLEX INTERMETALLIC PHASES: EXPERIMENTAL STUDIES AND THEORETICAL PREDICTIONS

9/1/12 to 8/31/14 RESEARCH

CO-PI MILLER, GORDON CHEMISTRY-LAS
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

#### May 01 - 31, 2012

<table>
<thead>
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<th>Grant Number</th>
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<td>116672</td>
<td>DOD-OFFICE OF NAVAL RESEARCH (ONR)</td>
<td>FUNCTIONAL PROTEIN STRUCTURES IN SPIDER SILK FOR ULTRA-HIGH AND THERMAL CONDUCTIVITY AND EXCEPTIONAL THERMAL TUNABILITY</td>
<td>$112,733</td>
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<td>114560</td>
<td>FOUND ANIMALS FOUNDATION</td>
<td>DEVELOPMENT OF A VACCINE DELIVERY DEVICE THAT WILL MAINTAIN LIFE-LONG HIGH TITERS OF ANTI-GNRH ANTIB oDIES</td>
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<td>115884</td>
<td>NSF-NATIONAL SCIENCE FOUNDATION</td>
<td>CAREER: PHOTOPROTECTION FOR TOLERANCE TO ABIOTIC STRESS: DISCOVERY THROUGH NATURAL GENETIC VARIATION</td>
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<td>106488</td>
<td>UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN</td>
<td>BIO-INSPIRED FLEXIBLE CELLULAR ACTUATING/SENSING SYSTEMS</td>
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<td>RMC RESEARCH &amp; EDUCATION FOUNDATION</td>
<td>NATIONAL TRAINING PROGRAM FOR STATE AND LOCAL PUBLIC AGENCIES ON CEMENT-BASED PAVING PRODUCTS</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

87000 GREAT LAKES BIOENERGY RESEARCH CENTER

9/30/07 to 11/30/12 RESEARCH
BABCOCK, BRUCE ECONOMICS

$58,131 DEERE & COMPANY

114477 AN INTEGRATED COMPUTATIONAL MATERIALS ENGINEERING (ICME) APPROACH TO FATIGUE

2/14/12 to 2/13/13 RESEARCH
BECKMAN, SCOTT MATERIALS SCIENCE & ENGINEERING-ENGR

$55,000 DOE-U.S. DEPARTMENT OF ENERGY

116958 TEST OF THE STANDARD MODEL USING BOOSTED W/Z BOSONS AND D*+ JETS AT THE ATLAS EXPERIMENT

5/1/12 to 3/31/13 RESEARCH
CHEN, CHUNHUI PHYSICS & ASTRONOMY-LAS

$54,190 BAYER CROP SCIENCE

118358 EVALUATION OF BAYER CROP SCIENCE WEED MANAGEMENT TECHNOLOGIES

4/1/12 to 3/31/13 EXTENSION/PUBLIC
OWEN, MICHEAL AGRONOMY-AES/CALS

$54,090 NORTH CENTRAL SOYBEAN RESEARCH

119135 THE SUDDEN DEATH SYNDROME RESEARCH ALLIANCE (PHASE II, 2010-2013)

3/1/12 to 2/28/13 RESEARCH
LEANDRO, LEONOR PLANT PATHOLOGY-AES/CALS
CIANZIO, SILVIA AGRONOMY-AES/CALS
BHATTACHARYYA, MADAN AGRONOMY-AES/CALS
BEAVIS, WILLIAM AGRONOMY-AES/CALS

$53,000 USDA-FOREST SERVICE (FS)

105181 DISTRIBUTION AND INTENSIFICATION OF BUR OAK BLIGHT IN IOWA AND THE MIDWEST

1/1/10 to 12/31/14 RESEARCH
HARRINGTON, THOMAS PLANT PATHOLOGY-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$52,712 UNIVERSITY OF TEXAS DALLAS

117252 VERIFICATION OF MULTI-STATE VULNERABLE AMS CIRCUITS

4/1/12 to 7/31/12 RESEARCH
GEIGER, RANDALL
CHEN, DEGANG
ELECTRICAL & COMPUTER ENGINEERING-ENGR

$52,369 NATIONAL PORK BOARD

115196 INVESTIGATION OF EFFECTS OF THERMAL STRESS ON OVARIAN FUNCTION AND SEASONAL INFERTILITY

5/1/12 to 5/1/13 RESEARCH
KEATING, AILEEN
ROSS, JASON
BAUMGARD, LANCE
ANIMAL SCIENCE-AES/CALS

$50,750 HONEYWELL FEDERAL MANUFACTURING & TECHNOLOGIES LLC

111773 DIAMOND THERMAL MANAGEMENT SYSTEM

1/10/11 to 9/30/11 RESEARCH
WANG, XINWEI
MECHANICAL ENGINEERING-ENGR

$50,000 HEARTLAND CENTER FOR LEADERSHIP DEVELOPMENT

116492 HTC POTTAWATTAMIE COUNTY-LEADERSHIP PROGRAM

3/1/12 to 6/30/14 EXTENSION/PUBLIC
FREEMAN, RUTH
EXTENSION TO FAMILIES-EXT

$50,000 NATIONAL PORK BOARD

117160 TESTING SOYBEAN PEROXIDASE FOR SWINE MANURE TREATMENT AND MITIGATION OF ODOROUS VOCS, AMMONIA, HYDROGEN SULFIDE AND GREENHOUSE GAS EMISSIONS

7/1/12 to 6/30/13 RESEARCH
KOZIEL, JACEK
AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$50,000 IOWA WATERSHED IMPROVEMENT REVIEW BOARD

117475 SOIL NUTRIENT MASS BALANCE STUDY

10/1/11 to 12/31/12 RESEARCH
CASTELLANO, MICHAEL
HELMERS, MATTHEW
AGRONOMY-AES/CALS
AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
May 01 - 31, 2012

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

118768  GRAIN QUALITY IMAGE CLASSIFICATION

- 5/1/12 to 12/31/12  RESEARCH
- DARR, MATTHEW  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

- 4004413

117271  USE OF METAGENOMICS TO ASSESS THE EFFECTS OF ANTIBACTERIAL FEED ADDITIVES

- 6/1/12 to 5/31/13  RESEARCH
- SONGER, J  VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
- PHILLIPS, GREGORY  VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

- 4002368

$42,850  USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

97139  CHILDREN, YOUTH AND FAMILIES AT RISK LIAISON

- 5/15/09 to 5/14/13  EXTENSION/PUBLIC
- WOODS, BARBARA  EXTENSION TO FAMILIES-EXT

- 4173013

$42,472  UNIVERSITY OF MINNESOTA TWIN CITIES

116027  COMMUNITY CAPACITY BUILDING TO STRENGTHEN THE LINKS WITHIN THE IOWA LOCAL FOODS VALUE CHAIN

- 1/1/12 to 12/31/13  EXTENSION/PUBLIC
- CHASE, CRAIG  EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
- NAEVE, LINDA  VALUE ADDED AGRICULTURE-EXT

- 4103915

$42,000  IA DPS-GOVERNORS TRAFFIC SAFETY BUREAU

118820  SEAT BELT USE SURVEY 2012

- 5/1/12 to 9/30/12  RESEARCH
- HUCK, SHIRLEY  SURVEY AND BEHAVIORAL RESEARCH SERVICES-VPR/ED

- 4781728

$41,000  NSF-NATIONAL SCIENCE FOUNDATION

117785  GRDS: COLLABORATIVE RESEARCH: ENHANCED IMMERSIVE TECHNOLOGY TO IMPROVE COLLABORATIVE DECISION MAKING

- 7/1/11 to 6/30/14  RESEARCH
- VANCE, JUDY  MECHANICAL ENGINEERING-ENGR

- 4206504
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

$40,870 NSF-NATIONAL SCIENCE FOUNDATION

105617 COLLABORATIVE RESEARCH: MATHEMATICAL ASPECT IN QUANTUM INFORMATION SCIENCE

9/15/10 to 8/31/13 RESEARCH
POON, YIU MATHEMATICS-LAS

$40,000 PENNSYLVANIA STATE UNIVERSITY

118174 IFAB FOUNDRY

4/24/12 to 7/1/12 RESEARCH
FRANK, MATTHEW INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR
PETERS, FRANK INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$40,000 ARIZONA STATE UNIVERSITY

118743 ANALYTICAL METHODS FOR THE STUDY OF INVESTMENT STRATEGIES IN COMPLIANCE WITH ENVIRONMENTAL POLICY REQUIREMENTS

6/1/12 to 8/31/13 RESEARCH
WANG, LIZHI INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$39,707 STATE LIBRARY OF IOWA

118253 SMART INVESTING @ YOUR LIBRARY: OUTREACH TO RURAL IOWANS

1/29/12 to 6/30/13 EXTENSION/PUBLIC
FLETCHER, CYNTHIA HUMAN DEVELOPMENT & FAMILY STUDIES-EXT

$38,601 CONSORTIUM FOR PLANT BIOTECHNOLOGY RESEARCH INC

104078 DISCOVERY OF NOVEL GENES IN CREEPING BENTGRASS BY HIGH THROUGHPUT GENE SILENCING WITH SPECIALIZED INVERTED REPEAT CDNA LIBRARIES

1/1/12 to 12/31/12 RESEARCH
FEI, SHUIZHANG HORTICULTURE-AES/CALS
YIN, YANHAI GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

$37,905 UNIVERSITY OF CALIFORNIA DAVIS

116074 IMPLICATIONS OF U.S. CLIMATE POLICY CHOICES FOR AGRICULTURAL INPUT COMPETITIVENESS, COSTS, AND USAGE

7/1/11 to 6/30/12 RESEARCH
HAYES, DERMOT ECONOMICS-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

May 01 - 31, 2012

115061
PROGRAM ENHANCEMENTS FOR DUBUQUE COUNTY AND EXTENSION REGION 11
7/1/11 to 6/30/13 EXTENSION/PUBLIC
CO-PI
FRANZ, NANCY EXTENSION TO FAMILIES-EXT
WARNING, JEANNE EXTENSION TO FAMILIES-EXT

$35,221 DUBUQUE COUNTY EXTENSION OFFICE

119023
EPA STAR GRADUATE FELLOWSHIP
8/7/12 to 8/6/13 FELLOWSHIP
CO-PI
WILSEY, BRIAN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS
MARTIN, LEANNE ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$34,902 EPA-U.S. ENVIRONMENTAL PROTECTION AGENCY

116617
PELL GRANT, FY12
7/1/11 to 6/30/12 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$34,722 ED-U.S. DEPARTMENT OF EDUCATION

104059
CENTER ON INTERFACIAL ENGINEERING FOR MICROELECTROMECHANICAL SYSTEMS
6/18/10 to 3/31/13 RESEARCH
CO-PI
RAJAN, KRISHNA MATERIALS SCIENCE & ENGINEERING-ENGR

$34,665 STANFORD UNIVERSITY

99601
CONCRETE OVERLAY FIELD APPLICATION PROGRAM
9/23/09 to 7/25/12 RESEARCH
CO-PI
CACKLER, ELLS INSTITUTE FOR TRANSPORTATION-VPR/ED
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

$33,120 DOT-FEDERAL HIGHWAY ADMINISTRATION (FHWA)

114520
EXPANDING 4-H YOUTH DEVELOPMENT IN MUSCATINE COUNTY
7/1/11 to 6/30/13 EXTENSION/PUBLIC
MORRIS, JOHN EXTENSION 4-H YOUTH DEVELOPMENT-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$32,143 JACkSON COUNTY AGRICULTURAL EXTENSION DISTRICT

114834 PROGRAM ENHANCEMENT FOR JACKSON COUNTY EXTENSION DISTRICT

7/1/11 to 6/30/13 EXTENSION/PUBLIC
JOHANSEN, LUANN EXTENSION 4-H YOUTH DEVELOPMENT-EXT
MORRIS, JOHN EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$30,000 COMMUNITY FOUNDATION OF GREATER DUBUQUE

117865 NORTHEAST IOWA FOOD AND FITNESS INITIATIVE: EVALUATION STRATEGIES PROPOSAL ISU COMMUNITY CHANGE PLANNING AND FACILITATION TEAM
1/1/12 to 10/31/12 RESEARCH
FLORA, CORNELIA SOCIOLOGY-AES/CALS

$30,000 USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)

118744 AGDISCOVERY 2012: INVESTING IN THE FUTURE OF WILDLIFE AND DOMESTIC ANIMAL HEALTH

5/1/12 to 9/30/12 EXTENSION/PUBLIC
FAIRBANKS, WENDELYN NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS
CHRISTOFFEL, REBECCA EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$30,000 UCHICAGO ARGONNE LLC-ARGONNE NATIONAL LABORATORY

118810 PERFORM ANALYSIS ON DATA FROM THE ATLAS DETECTOR

6/1/12 to 5/31/13 RESEARCH
PRELL, SOEREN PHYSICS & ASTRONOMY-LAS

$29,731 SOUTH DAKOTA STATE UNIVERSITY

116675 SOYBEAN APHID MANAGEMENT, RESISTANCE, AND OUTREACH IN THE NORTH CENTRAL REGIONS

3/1/12 to 2/28/13 RESEARCH
ONEAL, MATTHEW ENTOMOLOGY-AES/CALS

$26,309 MRI GLOBAL

118413 INITIAL USRAP ACTIVITIES FOR 2012

5/21/04 to 12/31/12 RESEARCH
HANS, ZACHARY INSTITUTE FOR TRANSPORTATION-VPR/ED
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$26,000 ED-U.S. DEPARTMENT OF EDUCATION

116616 TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION (TEACH) GRANT, FY12

7/1/11 to 6/30/12 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$25,800 USDA-NATIONAL AGRICULTURAL STATISTICS SERVICE (NASS)

118290 NEW APPROACHES FOR AREA FRAME DEVELOPMENT, AREA SAMPLE DESIGN, AND GEOSPATIAL DATA COLLECTION

3/1/11 to 9/30/13 RESEARCH
NUSSER, SARAH STATISTICS-LAS
KIM, JAE-KWANG STATISTICS-LAS
YU, CINDY STATISTICS-LAS
ZHU, ZHENGYUAN STATISTICS-LAS

$25,000 SOUTH DAKOTA STATE UNIVERSITY

116710 SOYBEAN APHID MANAGEMENT, RESISTANCE, AND OUTREACH IN THE NORTH CENTRAL REGION

3/1/12 to 2/28/13 RESEARCH
BONNING, BRYONY ENTOMOLOGY-AES/CALS

$25,000 XM COMPANIA DE EXPERTOS

118963 EPRC SUPPORT

1/1/12 to 12/31/12 RESEARCH
CHRISTY, COLIN ELECTRICAL & COMPUTER ENGINEERING-ENGR

$25,000 NORTH CENTRAL SOYBEAN RESEARCH

119008 IMPROVING MANAGEMENT OF SOYBEAN CYST NEMATODE THROUGH EXTENSION DEMONSTRATION AND OUTREACH-PHASE II

3/1/12 to 2/28/13 RESEARCH
TYLKA, GREGORY PLANT PATHOLOGY-AES/CALS

$24,998 NSF-NATIONAL SCIENCE FOUNDATION

118141 COLLABORATIVE RESEARCH: SEX CHROMOSOME EVOLUTION IN TURTLES

5/1/12 to 12/31/12 RESEARCH
VALENZUELA-CASTRO, MARIA ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

**May 01 - 31, 2012**

### 118528  PROJECT RECOVERY IOWA

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### 118505  INFLUENCE OF THE TRIVEDI EFFECT ON SOYBEAN HEALTH, YIELD AND QUALITY

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### 118505  INFLUENCE OF THE TRIVEDI EFFECT ON SOYBEAN HEALTH, YIELD AND QUALITY

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### 98129  GUIDE FOR EXISTING CONCRETE OVERLAY DESIGN METHODOLOGY

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### 117742  REVIEW OF SCIENTIFIC LITERATURE RELATED TO INACTIVATION OF FOOT AND MOUTH DISEASE VIRUS IN MILK AND MILK PRODUCTS

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### 118627  EVALUATION OF GRASSY WEED CONTROL IN COOL-SEASON TURFGRASS EVALUATION OF A19238B IN COMBINATION WITH A19190C FOR TURFGRASS ENHANCEMENT AND REGULATION (C. BENTGRASS AND POA ANNUA)

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### 116794  GY-12 FOOD AND AGRICULTURE RESEARCH EXPERIENCES FOR TEACHERS–EXPANDING THE MODEL BEYOND NEBRASKA

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### 98129  GUIDE FOR EXISTING CONCRETE OVERLAY DESIGN METHODOLOGY

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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

118689 FUNGICIDE AND INSECTICIDE STUDY

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$15,819 CARD AGROCREDIT LLC

AGRICULTURE CREDIT SCHOOL FOR CARD AGROCREDIT

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$14,958 NSF-NATIONAL SCIENCE FOUNDATION

DISSERTATION RESEARCH: DISENTANGLING SPATIAL PATTERNS AND SCALE-DEPENDENCY OF SOIL MICROBIAL COMMUNITIES IN AN AGRICULTURAL LANDSCAPE

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$14,935 NSF-NATIONAL SCIENCE FOUNDATION

DISSERTATION RESEARCH: INTEGRATING STEM APPROACHES TO UNDERSTAND THE DISPERSAL OF GRASSLAND PLANTS

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$14,682 OGENA SOLUTIONS LLC

ACCELERATED HYDROGEN PEROXIDE IN THE TREATMENT OF DIGITAL DERMATITIS OF DAIRY CATTLE

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$13,954 DOT-FEDERAL HIGHWAY ADMINISTRATION (FHWA)

CONTINUATION OF TASK ORDER 4 ACTIVITIES FOR THE IMPLEMENTATION OF THE CP ROAD MAP

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115090 CONTINUATION OF TASK ORDER 4 ACTIVITIES FOR THE IMPLEMENTATION OF THE CP ROAD MAP

- **Funding:** $13,954
- **Period:** 11/1/10 to 6/30/11
- **To:** DOT-FEDERAL HIGHWAY ADMINISTRATION (FHWA)
- **Activities:** Research
- **Co-PI:** Nambisan, Shashi
  - **Institute:** Institute for Transportation-VPR/ED

111220 EAGER: MASSIVELY PARALLEL, MASKLESS, DIRECT-WRITE PLASMONICS NANOLITHOGRAPHY

- **Funding:** $12,001
- **Period:** 9/1/10 to 8/31/12
- **To:** NSF-NATIONAL SCIENCE FOUNDATION
- **Activities:** Research
- **Co-PI:** Molian, Palaniappa
  - **Dept.:** Mechanical Engineering-Engr
  - **Co-PI:** Lin, Zhiquan
  - **Dept.:** Materials Science & Engineering-Engr

118520 UPDATING THE ECONOMIC VALUE OF IOWA'S NATURAL RESOURCES

- **Funding:** $12,000
- **Period:** 4/15/12 to 9/15/12
- **To:** The Nature Conservancy
- **Activities:** Research
- **PI:** Otto, Daniel
  - **Dept.:** Economics-Ext

118754 GOALI: A HYBRID METHOD TO SUPPORT NATURAL INTERACTION OF PARTS IN A VIRTUAL ENVIRONMENT

- **Funding:** $11,547
- **Period:** 5/1/12 to 7/30/12
- **To:** Iowa Department of Administrative Services
- **Activities:** Research
- **PI:** Swenson, David
  - **Dept.:** Economics-AES/CALS

118775 PLOT CAGE EVALUATION OF APHID RESISTANCE

- **Funding:** $11,500
- **Period:** 5/1/12 to 12/1/12
- **To:** Monsanto Company
- **Activities:** Research
- **PI:** Oneal, Matthew
  - **Dept.:** Entomology-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$10,500 BAYER CROPSCIENCE

118673 CORN FUNGICIDE TREATMENTS FOR DISEASE CONTROL, STALK HEALTH AND GRAIN YIELD

5/1/12 to 4/30/13 RESEARCH
ROBERTSON, ALISON PLANT PATHOLOGY-EXT

$10,000 UNIVERSITY OF NORTHERN IOWA

118605 IOWA: FIELD (EXPERIMENT) OF DREAMS?

12/1/11 to 8/31/12 RESEARCH
HORNBUCLE, BRIAN AGRONOMY-AES/CALS

$9,957 IOWA PORK PRODUCERS ASSOCIATION

118447 PRECISION NUTRITION FOR PORK NICHE MARKETS: CHARACTERIZING FEED INTAKE, GROWTH RATE, AND FAT DEPOSITION OF PUREBRED BERKSHIRE PIGS HOUSED IN IOWA HOOP BARN

4/1/12 to 4/1/13 RESEARCH
MABRY, JOHN IOWA PORK INDUSTRY CENTER-EXT
LAMMERS, PETER VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
SWANTEK, P EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$9,000 WOODBURY COUNTY EXTENSION OFFICE

119018 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

$8,440 UNIVERSITY OF NEBRASKA LINCOLN

116948 SUMMER INTERSEEDING AND AGGRESSIVE POST-SEEDING HERBICIDES TO REDUCE ANNUAL BLUEGRASS IN FAIRWAYS

6/1/12 to 5/31/14 RESEARCH
MINNER, DAVID HORTICULTURE-AES/CALS

$8,000 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

118861 CONTRIBUTION OF WOODY VEGETATION TO ORGANIC MATTER CONTENT OF SOILS UNDER FOREST PLANTATIONS-ASSESSMENT FOR BIOENERGY PRODUCTION.

4/11/12 to 2/8/14 RESEARCH
HALL, RICHARD NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$7,500 CENTERVILLE COMMUNITY SCHOOL DISTRICT

117007 LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM

9/1/12 to 8/31/12 EXTENSION/PUBLIC
TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$7,500 CENTERVILLE COMMUNITY SCHOOL DISTRICT

117007 LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM

9/1/12 to 8/31/12 EXTENSION/PUBLIC
TALLMAN, KELI EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$6,750 COMMUNITY FOUNDATION OF GREATER DUBUQUE

119020 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

$6,067 KRELL INSTITUTE INC

118015 COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP

6/15/11 to 9/15/11 FELLOWSHIP
GORDON, MARK CHEMISTRY-LAS

$6,000 NSF-NATIONAL SCIENCE FOUNDATION

118439 BRIDGE: ARCHITECTURES AND CIRCUITS FOR SIMULTANEOUS SPECTRUM SENSING AND DATA RECEPTION IN COGNITIVE RADIO

5/12/12 to 7/31/12 RESEARCH
NEIHART, NATHAN ELECTRICAL & COMPUTER ENGINEERING-ENGR

$6,000 NSF-NATIONAL SCIENCE FOUNDATION

118822 HIGH-RESOLUTION ELECTRICAL SENSING OF SURFACE CHARGES AND CURRENTS OF LIVING CELLS

5/11/12 to 7/31/13 RESEARCH
PANDEY, SANTOSH ELECTRICAL & COMPUTER ENGINEERING-ENGR
## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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### Local Support for Iowa AmeriCorps State of Promise Program

- **Principle Investigator (PI):** Tallman, Keli
- **Co-Investigator (Co-PI):** McCarthy, Judy
- **Dates:** 9/1/11 to 8/31/12
- **Agency:** American Red Cross

### CAREER: Rationally Designed Conjugated Polymers Based on Benzobisazoles

- **PI:** Jeffries-El, Malik
- **Co-Investigator:** Chemistry-LAS
- **Dates:** 6/1/09 to 5/31/14
- **Agency:** NSF-National Science Foundation

### Summer Internship for High-School Students

- **PI:** Cervato, Cinzia
- **Co-Investigator:** Geology & Atmospheric Sciences-LAS
- **Dates:** 5/15/12 to 8/31/12
- **Agency:** Academy of Applied Science

### International Planning Visit: Complex Interactions of Ecological and Socioeconomic Factors That Drive Sustainability of Ancient South Indian Agroecosystems

- **PI:** Russell, Ann
- **Co-Investigator:** Natural Resource Ecology & Management-AES/CALS
- **Dates:** 5/1/12 to 4/30/13
- **Agency:** NSF-National Science Foundation

### Metal-Hydride Based Reactive Material Composites

- **PI:** Levitas, Valery
- **Co-Investigator:** Aerospace Engineering-Engr
- **Dates:** 6/1/12 to 5/31/17
- **Agency:** Raytheon Network Centric Systems

### Raytheon Docking Station

- **PI:** Wlezien, Richard
- **Co-Investigator:** Aerospace Engineering-Engr
- **Dates:** 4/23/12 to 6/4/12
- **Agency:** Raytheon Network Centric Systems
## May 01 - 31, 2012

### GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$4,166 VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY
111290 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

$4,000 AMERICAN HUMANE ASSOCIATION
116137 AN INVESTIGATION OF THE BEHAVIORAL NEEDS OF DOGS AND CATS HOUSED AT ANIMAL SHELTERS DUE TO CRUELTY/NEGLECT VERSUS OWNER RELINQUISHMENT
6/1/12 to 8/24/12 RESEARCH
MILLMAN, SUZANNE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$4,000 MORRIS ANIMAL FOUNDATION
118457 THE EFFECT OF TOPICAL 0.5% TIMOLOL OPHTHALMIC SOLUTION ON CANINE TEARS
6/1/12 to 8/31/12 RESEARCH
ALBAUGH, RACHEL VETERINARY CLINICAL SCIENCES-VET
PETERSEN, CHRISTINE VETERINARY PATHOLOGY-VET

$3,500 UNIVERSITY OF CALIFORNIA-LAWRENCE BERKELEY NATIONAL LABORATORY
118443 SYNTHESIS OF STANNYLATED ROSAMINES
1/1/11 to 6/30/12 RESEARCH
KRAUS, GEORGE CHEMISTRY-LAS

$3,426 WADDAN SYSTEMS
119010 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

$3,000 ED-U.S. DEPARTMENT OF EDUCATION
116616 TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION (TEACH) GRANT, FY12
7/1/11 to 6/30/12 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA
May 01 - 31, 2012

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,000 UNITED ACTION FOR YOUTH

117008 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

$3,000 BAYER CROP SCIENCE

118678 EVALUATE STRATEGIC YLD AND LEVERAGE 360 FOR YIELD ENHANCEMENT AND INSECT CONTROL

5/1/12 to 5/1/13 RESEARCH
HODGSON, ERIN ENTOMOLOGY-AES/CALS

$2,560 IOWA DEPARTMENT OF PUBLIC HEALTH

118817 MOU-2012-ISU25

7/1/11 to 6/30/12 RESEARCH
SHELLEY, MACK STATISTICS-LAS

$2,134 LUTHERAN SERVICES OF IOWA

117261 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

$2,100 IOWA DEPARTMENT OF NATURAL RESOURCES

118681 STUDENTS & SERPENTS: EDUCATION THROUGH HANDS-ON FIELD STUDIES OF SNAKES

5/14/12 to 3/31/13 RESEARCH
BRONIKOWSKI, ANNE ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS
GANGLOFF, ERIC ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$1,999 NSF-NATIONAL SCIENCE FOUNDATION

118882 RESUSPENSION OF E. COLI IN SEDIMENT LADEN STREAMS

5/31/12 to 5/31/13 RESEARCH
SOUPIR, MICHELLE AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR
May 01 - 31, 2012

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

116566 LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM

$1,500 BLACK HAWK COUNTY EXTENSION OFFICE

9/1/11 to 8/31/12 EXTENSION/PUBLIC
TALLMAN, KELI
EXTENSION 4-H YOUTH DEVELOPMENT-EXT

117001 LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM

$1,500 ADAIR COUNTY EXTENSION OFFICE

9/1/11 to 8/31/12 EXTENSION/PUBLIC
TALLMAN, KELI
EXTENSION 4-H YOUTH DEVELOPMENT-EXT

117009 LOCAL SUPPORT FOR IOWA AMERICORPS STATE OF PROMISE PROGRAM

$1,500 COMMUNITY FOUNDATION OF THE GREAT RIVER BEND

9/1/11 to 8/31/12 EXTENSION/PUBLIC
TALLMAN, KELI
EXTENSION 4-H YOUTH DEVELOPMENT-EXT

118861 CONTRIBUTION OF WOODY VEGETATION TO ORGANIC MATTER CONTENT OF SOILS UNDER FOREST PLANTATIONS-ASSESSMENT FOR BIOENERGY PRODUCTION.

$1,275 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

4/11/12 to 2/8/14 RESEARCH
HALL, RICHARD
NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

118769 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

$1,000 GLUCAN BIORENEWABLES INC

4/18/12 to 4/17/13 RESEARCH
SHANKS, BRENT
CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
May 01 - 31, 2012

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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