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

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

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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

114302 ZIRCONIUM TUNGSTATE/EPOXY NANOCOMPOSITES WITH LOW THERMAL EXPANSION FOR CONFORMAL COATINGS

- **Amount:** $140,657
- **Recipient:** HONEYWELL FEDERAL MANUFACTURING & TECHNOLOGIES LLC
- **Start Date:** 11/1/11
- **End Date:** 9/22/12
- **Description:** RESEARCH
- **PI:** KESSLER, MICHAEL
- **CO-PI:** BADRINARAYANAN, PRASHANTH
- **Department:** MATERIALS SCIENCE & ENGINEERING-ENGR

113494 IOWA AMERICORPS STATE OF PROMISE PROGRAM

- **Amount:** $132,092
- **Recipient:** IOWA COMMISSION ON VOLUNTEER SERVICE
- **Start Date:** 9/1/11
- **End Date:** 8/31/12
- **Description:** EXTENSION/PUBLIC
- **PI:** TALLMAN, KELI
- **CO-PI:** MCCARTHY, JUDY
- **Department:** EXTENSION 4-H YOUTH DEVELOPMENT-EXT

111809 ROLE OF METHANOTROPHS IN METAL MOBILIZATION, METAL IMMOBILIZATION AND MINERAL WEATHERING: EFFECTS ON IN SITU MICROBIAL COMMUNITY STRUCTURE AND THE SUSTAINABILITY OF SUBSURFACE WATER SYSTEMS

- **Amount:** $130,216
- **Recipient:** UNIVERSITY OF MICHIGAN
- **Start Date:** 9/1/11
- **End Date:** 8/31/12
- **Description:** RESEARCH
- **PI:** DISPIRITO, ALAN
- **Department:** BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES/CALS

114561 IMPLEMENTATION OF BIOFILTRATION TECHNOLOGY

- **Amount:** $125,297
- **Recipient:** UNIVERSITY OF IDAHO
- **Start Date:** 9/15/11
- **End Date:** 9/30/13
- **Description:** RESEARCH
- **PI:** HOFF, STEVEN
- **CO-PI:** HARMON, JAY
- **Department:** AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

111192 ULTRAFAST MAGNETISM IN COMPLEX MATERIALS: COHERENT AND COOPERATIVE PHENOMENA

- **Amount:** $120,000
- **Recipient:** NSF-NATIONAL SCIENCE FOUNDATION
- **Start Date:** 2/1/11
- **End Date:** 1/31/16
- **Description:** RESEARCH
- **PI:** WANG, JIGANG
- **Department:** PHYSICS & ASTRONOMY-LAS

115949 INDUSTRIAL ASSESSMENT CENTER

- **Amount:** $120,000
- **Recipient:** DOE-U.S. DEPARTMENT OF ENERGY
- **Start Date:** 9/30/11
- **End Date:** 5/31/13
- **Description:** RESEARCH
- **PI:** MAXWELL, GREGORY
- **CO-PI:** PETERS, FRANK
- **Department:** MECHANICAL ENGINEERING-ENGR

114024 IOWA AMERICORPS STATE OF PROMISE PROGRAM

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- **PI:** KESSLER, MICHAEL
- **CO-PI:** BADRINARAYANAN, PRASHANTH
- **Department:** MATERIALS SCIENCE & ENGINEERING-ENGR
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113844 DEVELOPMENT OF ADVANCED COLLABORATION AND MODULAR METHODS TO FACILITATE TRANSITION BETWEEN CONCEPT AND DETAILED DESIGN STAGES
1/1/11 to 6/30/12 RESEARCH

OLIVER, JAMES
MECHANICAL ENGINEERING-ENGR

$80,765 SOUTHERN ILLINOIS UNIVERSITY

114909 APPLICATION OF BIOTECHNOLOGY TO CONTROL OF THE SOYBEAN CYST NEMATODE: SOYBEAN RESISTANCE GENES
3/16/10 to 9/30/12 RESEARCH

CIANZIO, SILVIA
AGRONOMY-AES/CALS

$78,776 UNIVERSITY OF FLORIDA

113837 UNIFORMMU: A TRANSPONSON RESOURCE FOR FUNCTIONAL GENOMICS OF MAIZE
9/1/11 to 8/31/13 RESEARCH

VOLLBRECHT, ERIC
GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

LAWRENCE, CAROLYN
GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

CO-PI

$74,995 NATIONAL FLUID POWER ASSOCIATION EDUCATION & TECH FDN

113360 DIELECTRIC SPECTROSCOPIC SENSOR DEVELOPMENT FOR HYDRAULIC FLUID CONTAMINANT DETECTION
1/1/12 to 12/31/13 RESEARCH

STEWARD, BRIAN
AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

BIRRELL, STUART
AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

CO-PI

$70,045 SANDIA CORPORATION-SANDIA NATIONAL LABORATORIES

116465 STATISTICALLY SIGNIFICANT RELATIONAL DATA MINING
3/16/09 to 9/30/12 RESEARCH

NORDMAN, DANIEL
STATISTICS-LAS

KAISER, MARK
STATISTICS-LAS

CO-PI

$68,192 PENNSYLVANIA STATE UNIVERSITY

116346 UPDATED AND OPTIMIZED EGG QUALITY ASSURANCE PROGRAM TO MINIMIZE SALMONELLA ENTERITIDIS CONTAMINATION OF SHELL EGGS
9/1/11 to 8/31/14 RESEARCH

TRAMPEL, DARRELL
VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$65,681 DEERE & COMPANY
113891 EXTENSIBLE VIRTUAL ENGINEERING TOOLS FOR IMPROVED PRODUCT DESIGN
1/1/11 to 6/30/12 RESEARCH
BRYDEN, KENNETH MECHANICAL ENGINEERING-ENGR
CO-PI MCCORKLE, DOUGLAS VIRTUAL REALITY APPLICATIONS CENTER - IPRT-VPR/ED

$65,308 DEERE & COMPANY
113861 DEVELOPING TOOLS FOR THE DESIGN OF MULTIPHASE FLOWS
1/1/11 to 6/30/12 RESEARCH
BRYDEN, KENNETH MECHANICAL ENGINEERING-ENGR

$62,101 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)
115999 4-H AND FISH AND WILDLIFE SERVICE GIS MAPPING EXPANSION
9/1/11 to 10/31/12 EXTENSION/PUBLIC
STAKER, JAY EXTENSION 4-H YOUTH DEVELOPMENT-EXT
CO-PI JENSEN, ALAN EXTENSION COMMUNITY & ECONOMIC DEVELOPMENT-EXT

$60,340 DEERE & COMPANY
113843 ENHANCING INTEGRATED ROBUST OPTIMAL DESIGN ENVIRONMENT FOR INTEGRATION OF OFF-THE-SHELF SIMULATION TOOLS, USER FRIENDLINESS, AND EXPANDED CAPABILITIES
1/1/11 to 6/30/12 RESEARCH
KELKAR, ATUL MECHANICAL ENGINEERING-ENGR

$60,000 BOEING COMPANY
117187 NSF/I/UCRC CENTER FOR INFORMATION PROTECTION-BOEING
1/1/12 to 12/31/12 RESEARCH
JACOBSON, DOUG ELECTRICAL & COMPUTER ENGINEERING-ENGR

$57,002 IOWA DEPARTMENT OF HUMAN SERVICES
116156 REACHING OUT TO LOW INCOME FAMILIES AND SENIORS, AND TO FAMILY SUPPORT STAFF TO STRENGTHEN ACCESS TO NUTRITIOUS FOODS THROUGH THE IOWA FOOD ASSISTANCE PROGRAM
10/1/11 to 9/30/12 EXTENSION/PUBLIC
GREDER, KIMBERLY HUMAN DEVELOPMENT & FAMILY STUDIES-HS
CO-PI ZALENSKI, PHYLLIS EXTENSION TO FAMILIES-EXT
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<td>12/1/11 to 11/30/12</td>
<td>RESEARCH</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$50,000 ROCKWELL COLLINS

117018 MAP-AIDED NAVIGATION FOR AERIAL PLATFORMS

   12/1/11 to 8/31/12 RESEARCH
   SOMANI, ARUN 
   ELECTRICAL & COMPUTER ENGINEERING-ENGR

$50,000 MICHELIN AMERICAS RESEARCH & DEVELOPMENT CORPORATION

117203 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

   12/20/11 to 12/19/12 RESEARCH
   SHANKS, BRENT
   CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$49,437 UNIVERSITY OF IOWA

115789 A WIND TUNNEL STUDY OF THE INTERFERENCES OF MULTIPLE WIND TURBINES OVER COMPLEX TERRAINS FOR THE OPTIMAL TURBINE SITE DESIGN AND DURABILITY IN OPERATION

   7/1/11 to 7/1/12 RESEARCH
   HU, HUI
   AEROSPACE ENGINEERING-ENGR
   PARTHA, SARKAR
   AEROSPACE ENGINEERING-ENGR
   WLEZIEN, RICHARD
   AEROSPACE ENGINEERING-ENGR

$49,000 UNIVERSITY OF NEBRASKA OMAHA

115885 ENERGY CONSORTIUM OF THE SMALL BUSINESS DEVELOPMENT CENTERS OF SBA REGION VII

   9/15/11 to 12/31/11 EXTENSION/PUBLIC
   HECKMANN, JAMES
   BUSINESS ADMINISTRATION-BUS

$47,707 IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

116662 DEMONSTRATION OF THE IMPACTS OF MIXED ANNUAL-PERENNIAL AGROECOSYSTEMS ON WATER QUALITY

   10/1/11 to 9/30/12 EXTENSION/PUBLIC
   HELMERS, MATTHEW
   AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT

$45,334 NORTH CAROLINA STATE UNIVERSITY

113654 RESEARCH: MASTER SCIENCE HOBBYISTS: CHARACTERISTICS, MOTIVATIONS, EXPERIENCES, AND CAREER TRAJECTORIES

   1/1/12 to 12/31/13 RESEARCH
   ANDRE, THOMAS
   CURRICULUM & INSTRUCTION-HS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$43,900  IOWA DEPARTMENT OF HUMAN SERVICES
478-20-04
116993  ADAPTIVE EQUIPMENT CENTER

7/1/11 to 6/30/12  RESEARCH
STONE, RICHARD
INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$41,250  NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION
422-21-07
106563  UNDERSTANDING THE YOUNGEST X-RAY BINARY POPULATIONS IN LOW METALLICITIES

6/1/10 to 5/31/13  RESEARCH
ANTONIOU, VALSAMO
PHYSICS & ASTRONOMY-LAS
MARENGO, MASSIMO
PHYSICS & ASTRONOMY-LAS

$40,000  USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)
412-05-50
116449  DEVELOPMENT AND PUBLICATION OF THE "3RD EDITION OF M. BOVIS INFECTION IN ANIMAL AND HUMANS"

9/27/11 to 9/26/12  INSTRUCTION/TRAINING
THOEN, CHARLES
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$37,908  MAQUOKETA AREA CHAMBER OF COMMERCE
400-30-39
116518  MAQUOKETA VISIONING FOR THE FUTURE

10/1/11 to 9/30/12  EXTENSION/PUBLIC
BORICH, TIMOTHY
EXTENSION COMMUNITY & ECONOMIC DEVELOPMENT-EXT

$33,250  IOWA DEPARTMENT OF EDUCATION
472-30-06
117061  TEAM NUTRITION: FARM TO SCHOOL

10/1/11 to 9/30/12  EXTENSION/PUBLIC
STROHBEHN, CATHERINE
APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-EXT
LITCHFIELD, RUTH
FOOD SCIENCE & HUMAN NUTRITION-EXT

$31,000  PRATT & WHITNEY
400-65-46
116795  TASK 11-SUPPORT IN DEFINITION OF OPTIMUM X-RAY FILTERS FOR AN ENHANCED X-RAY INSPECTION OF TURBINE BLADES

11/1/11 to 12/31/11  RESEARCH
BRASCHE, LISA
CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
GRAY, JOSEPH
CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
JENSEN, TERRENCE
CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

116031 ETIOLOGY OF CYSTIC FIBROSIS-RELATED DIABETES IN A CFTR-KNOCKOUT FERRET

7/20/11 to 6/30/12 RESEARCH
FRANA, TIMOTHY VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
$28,860 UNIVERSITY OF IOWA

116956 ACIDIFICATION OF CORN GLUTEN MEAL

7/1/11 to 6/30/12 RESEARCH
CHRISTIANS, NICK HORTICULTURE-AES/CALS
$26,500 ISU RESEARCH FOUNDATION

117085 BOUNDARY LAYER THEORY AND MODELING OF INSECT MICROSTRUCTURES

7/1/11 to 11/29/11 RESEARCH
ROTHMAYER, ALRIC AEROSPACE ENGINEERING-ENGR
$25,999 PHYSICAL SCIENCES INC

116653 AUTOMATED LABELING OF UNSEEN MUCOSA AREAS DURING COLONOSCOPY

1/1/12 to 1/1/13 RESEARCH
CHANG, CARL COMPUTER SCIENCE-LAS
MUFF, BRIAN INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VPF
$25,380 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

116734 RESEARCH SUPPORT AGREEMENT

10/1/11 to 9/30/12 RESEARCH
LAMKEY, KENDALL AGRONOMY-AES/CALS
$25,000 GRAIN PROCESSING CORPORATION

116968 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

12/1/11 to 11/30/12 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$25,000  POET LLC  400-72-04

116979  CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

11/25/11 to 11/24/12  RESEARCH
SHANKS, BRENT   CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$24,000  SYNGENTA CROP PROTECTION INC  400-42-67

115772  SEED TREATMENT FIELD TRIALS 2011

7/1/11 to 6/30/13  RESEARCH
MUNKVOLD, GARY   PLANT PATHOLOGY-AES/CALS

$23,805  IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP  471-30-18

115051  BIOFUMIGATION POTENTIAL TO PROMOTE WOODS GROWN AMERICAN GINSENG

10/1/11 to 9/30/13  EXTENSION/PUBLIC
RANDALL, JESSE   NATURAL RESOURCE ECOLOGY & MANAGEMENT-EXT

$23,441  NIH-NATIONAL INSTITUTES OF HEALTH  430-21-05

87415  REGULATIONS OF SNARE-DEPENDENT MEMBRANE FUSION

12/1/10 to 11/30/12  RESEARCH
SHIN, YEON-KYUN   BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

$22,713  DUCTSOX CORPORATION  400-65-45

116776  ENHANCING GREEN BUILDING EFFICIENCY THROUGH FABRIC DUCTING

12/15/11 to 12/14/12  RESEARCH
GANAPATHYSUBRAMANIAN, B  MECHANICAL ENGINEERING-ENGR
OLSEN, MICHAEL  MECHANICAL ENGINEERING-ENGR
MUFF, BRIAN  INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VPF

$20,077  IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP  471-30-49

115072  ESTABLISHING STANDARDS FOR THE FERTILIZATION OF FIR TREES TO ASSIST IOWA CHRISTMAS TREE GROWERS

10/1/11 to 9/30/14  EXTENSION/PUBLIC
RANDALL, JESSE   NATURAL RESOURCE ECOLOGY & MANAGEMENT-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$18,782  ARIZONA STATE UNIVERSITY
116400  SEAMLESS POWER SYSTEM ANALYTICS S-46G
8/15/11  to 12/31/11  RESEARCH
MCCALLEY, JAMES  ELECTRICAL & COMPUTER ENGINEERING-ENGR

$18,000  WINNESHEIK COUNTY EXTENSION
117011  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

$16,572  UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN
115267  NESTED ASSOCIATION MAPPING (NAM) OF GENES CONTROLLING SOYBEAN YIELD AND OTHER KEY TRAITS
3/1/11  to 2/29/12  RESEARCH
BEAVIS, WILLIAM  AGRONOMY-AES/CALS

$14,408  MICHIGAN STATE UNIVERSITY
114338  ASSET BUILDING IN RURAL COMMUNITIES-EXPLORING BARRIERS AND IDENTIFYING OPPORTUNITIES AS STRATEGIES FOR POVERTY REDUCTION
10/1/11  to 9/30/12  EXTENSION/PUBLIC
FLETCHER, CYNTHIA  HUMAN DEVELOPMENT & FAMILY STUDIES-EXT
WARNING, JEANNE  EXTENSION TO FAMILIES-EXT

$14,201  NSF-NATIONAL SCIENCE FOUNDATION
116548  RAPID COLLABORATIVE RESEARCH: FIRE SEVERITY AND ECOSYSTEM IMPACTS IMMEDIATELY FOLLOWING AN EXTREME FIRE EVENT IN NORTHERN MINNESOTA
11/1/11  to 10/31/12  RESEARCH
WOLTER, PETER  NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

$13,500  MICHIGAN STATE UNIVERSITY
114376  HELPING NONMETRO COMMUNITIES AND UNDERSERVED ENTREPRENEURS GROW TOGETHER
10/1/11  to 8/31/12  EXTENSION/PUBLIC
BORICH, TIMOTHY  COMMUNITY & REGIONAL PLANNING-DSN
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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115158  INCREASED PRODUCTION OF PEAR AND PEACH WITH IMPROVED CULTIVARS TO INCREASE PROFITABILITY AND CONSUMPTION OF IOWA SPECIALTY CROPS
        10/1/11 to 9/30/13 RESEARCH
        HONEYMAN, MARK ISU RESEARCH AND DEMONSTRATION FARMS-AES/CALS
        $12,700 IOWA DEPARTMENT OF AGRICULTURE & LAND STEWARDSHIP

116523  GOVERNOR'S TRAFFIC SAFETY BUREAU TRAFFIC ENFORCEMENT
        10/1/11 to 9/30/12 MISCELLANEOUS
        STEWART, JERRY VICE PRESIDENT FOR BUSINESS & FINANCE-VPBF
        $12,555 IA DPS-GOVERNORS TRAFFIC SAFETY BUREAU

115777  TEACHING REPLACEMENT FUNDS
        8/15/11 to 12/31/11 INSTRUCTION/TRAINING
        MATZAVINOS, ANASTASIOS MATHEMATICS-LAS
        $10,384 OHIO STATE UNIVERSITY

116470  ANHYDROUS AMMONIA DISTRIBUTION WITH A TANK ADDITIVE
        10/5/11 to 5/20/12 EXTENSION/PUBLIC
        HANNA, H. AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
        SAWYER, JOHN AGRONOMY-AES/CALS
        $10,037 KOCHE AGRONOMIC SERVICES LLC

99209  OPERATIONAL FUNDS FOR THE IOWA ENERGY CENTER
        11/4/11 to 12/31/99 RESEARCH
        NORDMEYER, KEVIN IOWA ENERGY CENTER-VPR/ED
        $10,000 IOWA DEPARTMENT OF COMMERCE

116910  DEVELOPMENT OF "INTRODUCTION TO WIND ENERGY" SUITABLE FOR JUNIORS
        7/1/11 to 7/1/12 INSTRUCTION/TRAINING
        RAJAGOPALAN, R. AEROSPACE ENGINEERING-ENGR

$10,000 UNIVERSITY OF IOWA

$10,000 UNIVERSITY OF IOWA
November 01 - 30, 2011

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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$5,567 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

$5,063 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

$3,567 UNIVERSITY OF WYOMING

116831 ANNIES PROJECT TRAINING FOR EXTENSION EDUCATORS
10/1/11 to 3/31/12 EXTENSION/PUBLIC
LAWRENCE, JOHN EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
EGGERS, TIMOTHY EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$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 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

117245 RESEARCH SUPPORT AGREEMENT
10/1/11 to 9/30/12 RESEARCH
POWELL-COFFMAN, JO GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

$2,000 CHEMINOVA INC

117073 EVALUATE CHEMINOVA PRODUCTS FOR SOYBEAN DISEASES AND YIELD
5/1/11 to 4/30/12 RESEARCH
YANG, XIAO PLANT PATHOLOGY-AES/CALS
NAVI, SHRISHAIL PLANT PATHOLOGY-AES/CALS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,500  BLACK HAWK COUNTY EXTENSION
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

$1,500  ADAIR COUNTY EXTENSION
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

$1,500  COMMUNITY FOUNDATION OF THE GREAT RIVER BEND
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

$1,500  COMMUNITY FOUNDATION OF THE GREAT RIVER BEND
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

$1,500  EVERYBODY WINS! IOWA
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  IOWA DEPARTMENT OF TRANSPORTATION
LOCAL TECHNICAL ASSISTANCE PROGRAM 2011-EVERY DAY COUNTS SUPPORT
1/1/11 to 12/31/11  RESEARCH
KNAPP, KEITH  INSTITUTE FOR TRANSPORTATION-VPR/ED
NAMBISAN, SHASHI  INSTITUTE FOR TRANSPORTATION-VPR/ED
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,000 SOLAZYME INC

117082 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

6/1/11 to 8/1/11 MISCELLANEOUS
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$1,000 ILLINOIS TOOL WORKS

117107 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

8/1/10 to 8/30/10 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$567 NIH-NATIONAL INSTITUTES OF HEALTH

84859 SUMMER RESEARCH TRAINING OF VETERINARY MEDICAL STUDENTS

4/1/11 to 3/31/12 INSTRUCTION/TRAINING
PHILLIPS, GREGORY VETERINARY MEDICINE ADMINISTRATION