II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$10,300,630  ED-U.S. DEPARTMENT OF EDUCATION

120364  PELL GRANT, FY13
          7/1/12  to  6/30/13  STUDENT FINANCIAL AID
                      JOHNSON, ROBERTA  STUDENT FINANCIAL AID-VPSA

$4,000,000  NSF-NATIONAL SCIENCE FOUNDATION

112082  IOWA EPSCOR: HARNESING ENERGY FLOWS IN THE BIOSPHERE TO BUILD SUSTAINABLE ENERGY SYSTEMS
          9/1/11  to  8/31/16  RESEARCH
                      BROWN, ROBERT  MECHANICAL ENGINEERING-ENGR
                      RAJAN, CHITRA  VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED

$3,523,570  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 DOE-VPR/ED

$1,379,551  NSF-NATIONAL SCIENCE FOUNDATION

113078  INSPIRE LSAMP-AN ALLIANCE MODELING HOW TO BROADEN PARTICIPATION IN CHANGING MIDWEST DEMOGRAPHICS
          8/15/11  to  7/31/16  RESEARCH
                      HOLGER, DAVID  GRADUATE COLLEGE-PROV

$1,300,000  NSF-NATIONAL SCIENCE FOUNDATION

119272  BIGDATA: MID-SCALE: DA: COLLABORATIVE RESEARCH: GENOMES GALORE-CORE TECHNIQUES, LIBRARIES, AND DOMAIN SPECIFIC LANGUAGES FOR HIGH-THROUGHPUT DNA SEQUENCING
          1/1/13  to  12/31/15  RESEARCH
                      ALURU, SRINIVAS  ELECTRICAL & COMPUTER ENGINEERING-ENGR
                      SCHNABLE, PATRICK  AGRONOMY-AES/CALS
                      ZOLA, JAROSLAW  ELECTRICAL & COMPUTER ENGINEERING-ENGR

$1,073,760  DOD-AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFOSR)

119173  A CO-DESIGN APPROACH FOR ADVANCES IN SOFTWARE AND HARDWARE
          9/30/12  to  11/30/15  RESEARCH
                      GORDON, MARK  CHEMISTRY-LAS
                      WINDUS, THERESA  CHEMISTRY-LAS
September 01 - 30, 2012

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$925,000 NSF-NATIONAL SCIENCE FOUNDATION

119204 CREATIV: ROBUST MOLECULAR PROGRAMMING: ADVANCES IN THE DESIGN AND VERIFICATION OF RELIABLE SELF-ASSEMBLING NANOSYSTEMS
10/1/12 to 9/30/15 RESEARCH
LUTZ, JACK COMPUTER SCIENCE-LAS
HENDERSON, ERIC GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS
LATHROP, JAMES COMPUTER SCIENCE-LAS
LUTZ, ROBYN COMPUTER SCIENCE-LAS

$713,849 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)

118473 ADVANCING A SWINE MEDICINE EDUCATION CENTER OF EXCELLENCE AND DELIVERING A NATIONAL CURRICULUM TO U.S. VETERINARY STUDENTS
9/1/12 to 8/31/15 RESEARCH
KARRIKER, LOCKE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
COETZEE, JOHANN VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$700,000 DOT-FEDERAL HIGHWAY ADMINISTRATION (FHWA)

120107 TECHNOLOGY TRANSFER OF CONCRETE PAVEMENT TECHNOLOGIES
9/13/12 to 9/12/14 RESEARCH
CACKLER, ELLS INSTITUTE FOR TRANSPORTATION-VPR/ED
TAYLOR, PETER INSTITUTE FOR TRANSPORTATION-VPR/ED
HALLMARK, SHAUNA INSTITUTE FOR TRANSPORTATION-VPR/ED

$595,011 NSF-NATIONAL SCIENCE FOUNDATION

118424 CPS: BREAKTHROUGH: DISTRIBUTED COMPUTING UNDER UNCERTAINTY: A NEW PARADIGM FOR COOPERATIVE CYBER-PHYSICAL SYSTEMS
1/1/13 to 12/31/15 RESEARCH
ELIA, NICOLA ELECTRICAL & COMPUTER ENGINEERING-ENGR

$562,535 ALLIANCE FOR SUSTAINABLE ENERGY LLC-NATIONAL RENEWABLE ENERGY LABORATORY

104478 NATIONAL ADVANCED BIOFUELS CONSORTIUM
7/9/10 to 9/30/13 RESEARCH
BROWN, ROBERT MECHANICAL ENGINEERING-ENGR
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
DARR, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

**September 01 - 30, 2012**

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<tr>
<th>Grant Number</th>
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<td>119590</td>
<td>$550,000</td>
<td>SECURE FOOD SUPPLY PROJECTS FOR BUSINESS CONTINUITY IN A FOREIGN ANIMAL DISEASE OUTBREAK</td>
<td>ROTH, JAMES; TRAMPEL, DARRELL; BICKETT-WEDDLE, DANELLE; ZAABEL, PAM; FLAMING, KEVAN; MOGAN, JANICE; LEEDOM-LARSON, KERRY</td>
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<td>116930</td>
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<td>TALLMAN, KELI; MCCARTHY, JUDY</td>
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<td>119384</td>
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<td>SUSTAINABLE ALLOY DESIGN: SEARCHING FOR RARE EARTH ELEMENT ALTERNATIVES THROUGH &quot;CRYSTAL ENGINEERING&quot;</td>
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<td>$451,408</td>
<td>UNIVERSITY OF NORTHERN IOWA</td>
<td>KRESS, CATHANN; STAKER, JAY</td>
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<td>117169</td>
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<td>HIGHLY TUNABLE SURFACE PLASMON ENHANCED OPTICAL TRANSMISSION THROUGH PERIODIC NANOSTRUCTURES</td>
<td>HILLIER, ANDREW</td>
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## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Statistical Physics Far from Equilibrium</td>
<td>Schmittmann, Beate</td>
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<td>NSF-National Science Foundation</td>
<td>Model Validation for Photosynthetically Active Radiation Transport and Multiphase Flow in Algal Photobioreactors</td>
<td>Vigil, Dennis; Olsen, Michael</td>
<td>9/1/12 to 8/31/15</td>
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<td>CHEMICAL &amp; BIOLOGICAL ENGINEERING-ENGR; MECHANICAL ENGINEERING-ENGR</td>
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<td>Iowa State University Trio Educational Talent Search</td>
<td>Agyeman, Jane</td>
<td>9/1/11 to 8/31/13</td>
<td>INSTRUCTION/TRAINING</td>
<td>ENROLLMENT SERVICES-VPSA</td>
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<td>115047</td>
<td>United Soybean Board</td>
<td>Phase II Continuing the Search of New Genetic and Genomic Resources in Soybean for Breeding Resistance to Sudden Death Syndrome (SDS)</td>
<td>Cianzio, Silvia; Bhattacharyya, Madan; Leandro, Leonor</td>
<td>10/1/12 to 9/30/13</td>
<td>RESEARCH</td>
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<td>117859</td>
<td>USDA-National Institute of Food &amp; Agriculture (NIFA)</td>
<td>Risks from Field-Evolved Resistance to BT Corn by Western Rootworm</td>
<td>Gassmann, Aaron</td>
<td>9/1/12 to 8/31/14</td>
<td>RESEARCH</td>
<td>ENTOMOLOGY-AES/CALS</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$279,333 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)
116873 RESEARCH SUPPORT AGREEMENT
10/1/11 to 9/30/12 RESEARCH
REECY, JAMES ANIMAL SCIENCE-AES/CALS

$270,924 NIH-NATL INSTITUTE OF GENERAL MEDICAL SCIENCES (NIGMS)
111181 IN VITRO AND IN VIVO SIGNALING MECHANISMS OF ENDOTHELIAL TUBE FORMATION
9/1/11 to 8/31/13 RESEARCH
ESSNER, JEFFREY GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS

$262,076 USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)
118107 DELIVERY OF THE EMERGING AND EXOTIC DISEASES OF ANIMALS COURSE FOR INITIAL ACCREDITATION
9/1/12 to 8/31/13 EXTENSION/PUBLIC
ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
BROWN, GAYLE CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET
FLAMING, KEVAN CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET

$254,157 NSF-NATIONAL SCIENCE FOUNDATION
118179 CASES FOR TEACHING RESPONSIBLE COMMUNICATION OF SCIENCE
9/1/12 to 8/31/15 RESEARCH
GOODWIN, JEAN ENGLISH-LAS
DAHLSTROM, MICHAEL GREENLEE SCHOOL OF JOURNALISM & COMMUNICATION-LAS
KEMIS, MARI SCHOOL OF EDUCATION-HS
WOLF, JOHN PHYSICS & ASTRONOMY-LAS

$250,000 USDA-NATIONAL INSTITUTE OF FOOD & AGRICULTURE (NIFA)
119218 ROUTINE AND REPRODUCIBLE TRANSFORMATION SYSTEM FOR COMMON BEAN (PHASEOLUS VULGARIS)
9/1/12 to 8/31/15 RESEARCH
WANG, KAN AGRONOMY-AES/CALS
WESTGATE, MARK AGRONOMY-AES/CALS
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<td>106067</td>
<td>NIH-NATL INST OF ALLERGY &amp; INFECTIOUS DISEASES (NIAID)</td>
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<td>UNITED SOYBEAN BOARD</td>
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<td>DEVELOPMENT OF MATURITY I-IV VARIETIES FOR THE BETTER BEAN INITIATIVE</td>
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<td>COLLABORATIVE RESEARCH: TESTING HYPOTHESES FOR DRUMLIN FORMATION AT MÚLAJÖKUL, ICELAND</td>
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<td>111257</td>
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<td>$203,744</td>
<td>NATIONAL PROGRAM FOR GENETIC IMPROVEMENT OF FEED EFFICIENCY IN BEEF CATTLE</td>
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**Notes:**
- Grants are listed in descending order of amount.
- The table includes project IDs, grantors/institutes, amounts, and descriptions.
- The table is formatted to show the details of each grant clearly.
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<td>UNIVERSITY OF MISSOURI COLUMBIA</td>
<td>LOY, DANIEL (ANIMAL SCIENCE-EXT)</td>
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<td>UNIVERSITY CENTER ECONOMIC DEVELOPMENT PROGRAM</td>
<td>8/1/10 to 7/31/13</td>
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<td>DOC-ECONOMIC DEVELOPMENT ADMINISTRATION (EDA)</td>
<td>COX, RONALD (CENTER FOR INDUSTRIAL RESEARCH &amp; SERVICE-EXT), O'DONNELL, MICHAEL (CENTER FOR INDUSTRIAL RESEARCH &amp; SERVICE-EXT)</td>
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<td>119374</td>
<td>TTICC: TECHNOLOGY TRANSFER INTELLIGENT COMPACTION CONSORTIUM</td>
<td>8/6/10 to 6/30/14</td>
<td>$198,000</td>
<td>IOWA DEPARTMENT OF TRANSPORTATION</td>
<td>WHITE, DAVID (CIVIL, CONSTRUCTION, &amp; ENVIRONMENTAL ENGINEERING-ENGR), NAMBISAN, SHASHI (INSTITUTE FOR TRANSPORTATION-VPR/ED)</td>
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<td>119907</td>
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<td>9/19/12 to 9/30/13</td>
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<td>DICKERSON, JULIE (ELECTRICAL &amp; COMPUTER ENGINEERING-ENGR)</td>
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<td>SWINE INFLUENZA A VIRUS SURVEILLANCE SYSTEM PROJECT</td>
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<td>USING EVIDENCE-BASED PROGRAMMING CRITERIA TO REFINE A COMMUNITY-BASED INTERGENERATIONAL EXERGAMING PROGRAM FOR RURAL AMERICA</td>
<td>9/1/12 to 8/31/13</td>
<td>$168,330</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

120368  TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION (TEACH) GRANT, FY13

7/1/12 to 6/30/13  STUDENT FINANCIAL AID
JOHNSON, ROBERTA
STUDENT FINANCIAL AID-VPSA

$157,925  ED-U.S. DEPARTMENT OF EDUCATION

119757  NATIONAL MEETING IN ANIMAL EMERGENCY MANAGEMENT SUPPORT

9/5/12 to 9/4/13  EXTENSION/PUBLIC
ROTH, JAMES  VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
FLAMING, KEVAN  CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET

$156,008  USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)

116297  DEVELOPING SOIL NITROGEN AVAILABILITY INDICATORS TO PREDICT IN SITU NITROGEN MINERALIZATION AND CROP NITROGEN UPTAKE

9/1/12 to 8/31/15  RESEARCH
CASTELLANO, MICHAEL  AGRONOMY-AES/CALS
LIEBMAN, MATTHEW  AGRONOMY-AES/CALS

$155,000  BINATIONAL AGRICULTURAL RESEARCH & DEVELOPMENT FUND

120209  DATA IMPROVEMENT GRANT, PAP 13-408, TASK 05

10/1/12 to 9/30/13  RESEARCH
HANS, ZACHARY  INSTITUTE FOR TRANSPORTATION-VPR/ED
HALLMARK, SHAUNA  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$154,513  DOI-U.S. GEOLOGICAL SURVEY (USGS)

118354  WATERSHED SCALE WATER CYCLE DYNAMICS IN INTENSIVELY MANAGED LANDSCAPES: BRIDGING THE KNOWLEDGE GAP TO SUPPORT CLIMATE MITIGATION POLICIES

9/1/12 to 8/31/14  RESEARCH
CRUSE, RICHARD  AGRONOMY-AES/CALS

$150,000  UNITED SOYBEAN BOARD

119004  HIGH-PROTEIN SOYBEANS

10/1/11 to 9/30/13  RESEARCH
LI, LING  GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS
WURTELE, EVE  GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Roth, James (Veterinary Microbiology &amp; Preventive Medicine-Vet), Mogan, Janice (Center for Food Security &amp; Public Health-Vet), Flaming, Kevan (Center for Food Security &amp; Public Health-Vet)</td>
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- **Generating Best-Practice Guidelines for Modelling Multiphase Flows with Applications in the Oil & Gas Industry**
  - **Principal Investigator:** Fox, Rodney
  - **Organization:** Chemical & Biological Engineering-Engr
  - **Amount:** $150,000
  - **Dates:** 9/1/12 to 8/31/14

- **Selective Dehydration of Multifunctional Substrates**
  - **Principal Investigator:** Shank, Brent
  - **Organization:** Chemical & Biological Engineering-Engr
  - **Amount:** $150,000
  - **Dates:** 8/29/12 to 8/30/15

- **Early Childhood Positive Behavioral Intervention Support (PBIS) Coaches Training and Support 2012-13**
  - **Principal Investigator:** Peterson, Carla
  - **Organization:** Human Development & Family Studies-HS
  - **Amount:** $149,899
  - **Dates:** 7/1/12 to 6/30/13
  - **Co-Principal Investigator:** Luze, Gayle (Human Development & Family Studies-HS)

- **Single Pass Corn Stover Assessment**
  - **Principal Investigator:** Darr, Matthew
  - **Organization:** Agricultural & Biosystems Engineering-AES/CALS
  - **Amount:** $149,815
  - **Dates:** 8/1/12 to 7/31/13

- **Maximizing Ecosystem Benefits of the Storm Lake Dredging Program: An Evaluation of Dredging and Additional Management Actions on Wind-Driven Sediment Resuspension and Water Quality of Storm Lake**
  - **Principal Investigator:** Downing, John
  - **Organization:** Ecology, Evolution & Organismal Biology-AES/CALS
  - **Amount:** $143,618
  - **Dates:** 8/13/12 to 8/12/13
  - **Co-Principal Investigator:** Filstrup, Christopher (Ecology, Evolution & Organismal Biology-AES/CALS)

- **Managing the Training Website for the NAHERC and Maintaining the NAHEMS Guidelines and Industry Manuals for the NCAHEM**
  - **Principal Investigator:** Roth, James
  - **Organization:** Veterinary Microbiology & Preventive Medicine-Vet
  - **Amount:** $142,505
  - **Dates:** 8/22/12 to 8/21/13
  - **Co-Principal Investigator:** Mogan, Janice (Center for Food Security & Public Health-Vet), Flaming, Kevan (Center for Food Security & Public Health-Vet)
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>4222009</td>
<td>$125,596</td>
<td>NASA-NATIONAL AERONAUTICS &amp; SPACE ADMINISTRATION</td>
<td>AN INNOVATIVE SOLUTION TO NASA'S NEO IMPACT THREAT MITIGATION GRAND CHALLENGE AND ITS FLIGHT VALIDATION MISSION CONCEPT DEVELOPMENT</td>
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<td>4121711</td>
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<td>CLIMATE CHANGE ADAPTATION IN AGRICULTURE PROTECTING AND ENHANCING AGRICULTURAL ASSETS AND PRODUCTION IN A CHANGING CLIMATE</td>
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<td>4202513</td>
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<td>NOVEL PHOTONIC ENHANCED INORGANIC-ORGANIC MULTI-JUNCTION SOLAR CELL</td>
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<td>4534055</td>
<td>$121,478</td>
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<td>A LONGITUDINAL ASSESSMENT OF THE IMPACT PRRSV HAS ON GROW-FINISHER PIG TISSUE ACCRETION AND DIGESTIBILITY IN COMMERCIAL PRODUCTION</td>
<td>GABLER, NICHOLAS&lt;br&gt;CO-PI PATIENCE, JOHN&lt;br&gt;CO-PI KARRIKER, LOCKE</td>
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<td>NATIONAL PORK BOARD</td>
<td>RESEARCH A LONSDINAL ASSESSMENT OF THE IMPACT PRRSV HAS ON GROW-FINISHER PIG TISSUE ACCRETION AND DIGESTIBILITY IN COMMERCIAL PRODUCTION 10/1/12 to 10/1/13 SCHWARTZ, KENT VETERINARY DIAGNOSTIC &amp; PRODUCTION ANIMAL MEDICINE-VET</td>
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<td>114485</td>
<td>$120,688</td>
<td>NSF-NATIONAL SCIENCE FOUNDATION</td>
<td>RESEARCH BIOLOGICAL UTILIZATION OF THERMOLYTIC SUBSTRATES BY BACTERIA AND MICROALGAE: ADDRESSING TOXICITY OF SUBSTRATE CONTAMINANTS 1/1/12 to 12/31/14 JARBOE, LAURA CHEMICAL &amp; BIOLOGICAL ENGINEERING-ENGR WEN, ZHIYOU FOOD SCIENCE &amp; HUMAN NUTRITION-AES/CALS BROWN, ROBERT MECHANICAL ENGINEERING-ENGR</td>
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<td>117252</td>
<td>$118,142</td>
<td>UNIVERSITY OF TEXAS DALLAS</td>
<td>RESEARCH VERIFICATION OF MULTI-STATE VULNERABLE AMS CIRCUITS 4/1/12 to 3/31/13 GEIGER, RANDALL ELECTRICAL &amp; COMPUTER ENGINEERING-ENGR CHEN, DEGANG ELECTRICAL &amp; COMPUTER ENGINEERING-ENGR</td>
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<td>120013</td>
<td>$103,311</td>
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<td>RESEARCH STANDARDIZATION OF SEED HEALTH TESTS TO FACILITATE SEED EXPORTS THROUGH THE NATIONAL SEED HEALTH SYSTEM 7/1/12 to 8/30/13 MUNKVOLD, GARY PLANT PATHOLOGY-AES/CALS</td>
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September 01 - 30, 2012
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Annie's Project: Capacity Building, Delivery and Evaluation of Risk Management Education for Iowa Farm and Ranch Women</td>
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<td>Characterization of Surface Wind Energy Resources and Wake Interferences Among Wind Turbines Over Complex Terrains for Optimal Site Design and Turbine Durability</td>
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## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Yale University</td>
<td>Liu, Peng (Statistics-LAS)</td>
<td>$91,856</td>
<td>A Systems Approach to the Development and Function of C4 Photosynthesis</td>
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<td>118674</td>
<td>9/5/12</td>
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<td>Egg Nutrition Center</td>
<td>Schalinske, Kevin (Food Science &amp; Human Nutrition-AES/CALS)</td>
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<td>Type 2 Diabetes and Vascular Disease: Impact of Dietary Egg Consumption</td>
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<td>Leadership and Traffic Safety</td>
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<td>9/28/10</td>
<td>9/30/15</td>
<td>USDA-Economic Research Service (ERS)</td>
<td>Yu, Cindy (Statistics-LAS), Nusser, Sarah (Statistics-LAS), Huck, Shirley (Survey and Behavioral Research Services-VPR/ED)</td>
<td>$83,882</td>
<td>Effects of Community Assets on Rural Business Development</td>
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<td>116617</td>
<td>7/1/11</td>
<td>6/30/12</td>
<td>U.S. Department of Education</td>
<td>Johnson, Roberta (Student Financial Aid-VPSA)</td>
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<td>10/1/12</td>
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<td>Gabler, Nicholas (Animal Science-AES/CALS), Dekkers, Jack (Animal Science-AES/CALS)</td>
<td>$77,002</td>
<td>The Effects of PRRSV Infection in Commercial Pigs on Growth Performance, Energy and Nutrient Digestibility</td>
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</table>
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

### 119009
- **The Effects of PRRSV Infection in Commercial Pigs on Growth Performance, Energy and Nutrient Digestibility**
- **Funding:** $77,002
- **Agency:** National Pork Board
- **Period:** 10/1/12 to 10/1/13
- **Research Co-PI:** Patience, John
- **Department:** Animal Science-AES/CALS

### 119035
- **Identification of Genetic Mutations That Confer Escape from Innate or Adaptive Host Immune Responses During PRRSV Infection in Vivo**
- **Funding:** $74,305
- **Agency:** National Pork Board
- **Period:** 10/1/12 to 10/1/13
- **Research Co-PIs:** Carpenter, Susan; Dorman, Karin
- **Departments:** Animal Science-AES/CALS; Statistics-LAS

### 117105
- **Characterization of Emerging Porcine Parvovirus Types in the U.S. Pig Population**
- **Funding:** $72,576
- **Agency:** Iowa Pork Producers Association
- **Period:** 11/1/12 to 11/1/13
- **Research Co-PIs:** Opriessnig, Tanja; Halbur, Patrick
- **Departments:** Veterinary Diagnostic & Production Animal Medicine-Vet; Veterinary Diagnostic & Production Animal Medicine-Vet

### 116761
- **Research Support Agreement**
- **Funding:** $69,000
- **Agency:** USDA-Agricultural Research Services (ARS)
- **Period:** 10/1/11 to 9/30/12
- **Research Co-PI:** Lamkey, Kendall
- **Department:** Agronomy-AES/CALS

### 119942
- **Laboratory Investigation of Concrete Beam End Treatments, Addendum 442**
- **Funding:** $64,800
- **Agency:** Iowa Department of Transportation
- **Period:** 11/1/12 to 10/31/14
- **Research Co-PIs:** Phares, Brent; Hosteng, Travis; Nambisan, Shashi
- **Departments:** Institute for Transportation-VPR/ED

### 119550
- **Regional STEM Hub Managers Support at Iowa State University**
- **Funding:** $64,200
- **Agency:** University of Northern Iowa
- **Period:** 6/1/12 to 5/31/13
- **Extension Co-PI:** Kress, Cathann
- **Extension Department:** Extension Administration-Ext
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

119550  REGIONAL STEM HUB MANAGERS SUPPORT AT IOWA STATE UNIVERSITY  
   6/1/12 to 5/31/13  EXTENSION/PUBLIC  
   STAKER, JAY  
   EXTENSION 4-H YOUTH DEVELOPMENT-EXT  
   $62,716  UCHICAGO ARGONNE LLC-ARGONNE NATIONAL LABORATORY  
   12/1/11 to 11/30/13  RESEARCH  
   SANCHEZ, MAYLY  
   PHYSICS & ASTRONOMY-LAS  
   $60,000  NSF-NATIONAL SCIENCE FOUNDATION  
   118352  CENTER FOR E-DESIGN  
   9/1/12 to 8/31/17  RESEARCH  
   TERPENNY, JANIS  
   INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR  
   CO-PI  
   VANCE, JUDY  
   MECHANICAL ENGINEERING-ENGR  
   $60,000  IOWA DEPARTMENT OF TRANSPORTATION  
   120028  INVESTIGATION OF DETERIORATION OF JOINTS IN CONCRETE PAVEMENTS  
   11/1/09 to 6/30/13  RESEARCH  
   TAYLOR, PETER  
   INSTITUTE FOR TRANSPORTATION-VPR/ED  
   CO-PI  
   HALLMARK, SHAUN  
   CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR  
   $59,907  NATIONAL PORK BOARD  
   120054  DEFINING THE ENERGY CONTENT (DE, ME AND NE) OF DROUGHT-STRESSED CORN AND IDENTIFYING RISK FACTORS THAT LOWER ENERGY  
   9/6/12 to 9/6/13  RESEARCH  
   PATIENCE, JOHN  
   ANIMAL SCIENCE-AES/CALS  
   CO-PI  
   HURBURGH, CHARLES  
   AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR  
   $59,767  NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION  
   115262  CORRELATED ANALYSIS OF GAMMA-RAY EMISSION NEAR G78.2+2.1  
   8/14/11 to 8/13/13  RESEARCH  
   WEINSTEIN, AMANDA  
   PHYSICS & ASTRONOMY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$58,926  NATIONAL PORK BOARD

119076  DEVELOPMENT OF STANDARD METHODS TO COMPARE SURVEILLANCE BETWEEN REGIONAL PORCINE REPRODUCTIVE AND RESPIRATORY VIRUS CONTROL AND ELIMINATION PROJECTS

10/1/12 to 10/1/13  RESEARCH

HOLTKAMP, DERALD  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$58,333  BASF CORPORATION

120125  CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

4/30/12 to 9/6/13  RESEARCH

SHANKS, BRENT  CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$56,987  USDA-FOREIGN AGRICULTURAL SERVICE (FAS)

119937  DAIRY HEALTH AND BIOSECURITY TRAINING FOR VETERINARIANS FROM PAKISTAN

8/13/12 to 8/12/13  INSTRUCTION/TRAINING

UHLENHOPP, ELDON  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI

GORDEN, PATRICK  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$51,000  SPECTRAL ENERGIES LLC

119559  PLANAR LIQUID-VAPOR IMAGING OF FUEL SPRAYS FOR CONVENTIONAL AND ALTERNATIVE FUELS

5/23/12 to 5/23/13  RESEARCH

MEYER, TERRENCE  MECHANICAL ENGINEERING-ENGR

$50,000  IOWA PORK PRODUCERS ASSOCIATION

119597  STRAIN VARIATION IN MYCOPLASMA HYOPNEUMONIAE

12/1/12 to 12/1/13  RESEARCH

MINION, FRANK  VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$50,000  USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

120193  DEVELOPMENT AND IMPLEMENTATION OF NATURAL RESOURCE DATABASES

9/20/12 to 8/31/13  RESEARCH

KANE, KEVIN  INSTITUTE FOR DESIGN RESEARCH & OUTREACH-DSN
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

119908  LABORATORY INVESTIGATION OF GROUTED COUPLER CONNECTION DETAILS FOR ABC BRIDGE PROJECTS, ADDENDUM
11/1/12 to 10/31/14 RESEARCH
INSTITUTE FOR TRANSPORTATION-VPR/ED

116887  GROWING BEGINNING WOMEN FARMERS IN IOWA AND NEBRASKA THROUGH WORKSHOPS, ON-FARM APPRENTICESHIPS, AND MENTORING
9/1/12 to 8/31/15 EXTENSION/PUBLIC

119835  REACHING OUT TO MID-LIFE AND OLDER IOWANS AND TO FAMILY SUPPORT STAFF TO STRENGTHEN ACCESS TO NUTRITIOUS FOODS THROUGH THE IOWA FOOD ASSISTANCE PROGRAM
10/1/12 to 9/30/13 EXTENSION/PUBLIC

119873  EMMETSBURG SUSTAINABLE STOVER HARVEST PROJECT, PHASE 2: EVALUATION OF CORN COB AND STOVER REMOVAL LEVELS ON CROP PRODUCTION, SOIL QUALITY AND NUTRIENT LEVELS
9/1/12 to 8/31/13 RESEARCH

119703  EVALUATION POSITIVE BEHAVIORAL INTERVENTIONS AND SUPPORTS (PBIS)
9/1/12 to 8/31/13 RESEARCH

115754  IDENTIFICATION OF SOYBEAN GENES THAT CONTRIBUTE TO RESISTANCE AGAINST SOYBEAN RUST
9/12/11 to 9/11/13 RESEARCH

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$49,987  IOWA DEPARTMENT OF TRANSPORTATION

119908  LABORATORY INVESTIGATION OF GROUTED COUPLER CONNECTION DETAILS FOR ABC BRIDGE PROJECTS, ADDENDUM

$48,939  WOMEN, FOOD & AGRICULTURE NETWORK

$48,743  IOWA DEPARTMENT OF HUMAN SERVICES

$46,748  POET RESEARCH

$45,616  IOWA DEPARTMENT OF EDUCATION

$38,111  USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

$38,111  USDA-AGRICULTURAL RESEARCH SERVICES (ARS)
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

9/1 - 30, 2012

119901 NONDESTRUCTIVE INSPECTION RESEARCH OF COMPOSITE MATERIALS USED ON THE COMMERCIAL FLEET: INFRARED IMAGING FOR DEFECT DETECTION IN AIRCRAFT STRUCTURES USING CHAOTIC AND BROADBAND SOUND EXCITATION

9/22/08 to 3/31/13 RESEARCH

BRASCHE, LISA CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED

$38,000 DOT-FEDERAL AVIATION ADMINISTRATION (FAA)

118193 DEVELOPMENT OF A BALLOON-BORNE BUOY-MOUNTED MEASUREMENT PLATFORM

9/1/12 to 12/31/12 RESEARCH

TAKLE, GENE AGRONOMY-AES/CALS

$36,354 UNIVERSITY OF IOWA

119969 DEVELOPING A NON-HUMAN PRIMATE TRANSPORT WEB MODULE, PRINT MANUAL, AND POWERPOINT FOR LABORATORY ANIMAL VETERINARIANS TO MEET TRAINING NEEDS FOR THE USDA-APHIS NATIONAL VETERINARY ACCREDITATION

9/14/12 to 9/13/13 EXTENSION/PUBLIC

BICKETT-WEDDLE, DANELLE CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET

ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$36,300 USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)

119975 IDENTIFICATION OF BREEDER MOLECULAR SIGNATURES-IOWA STATE

9/5/12 to 9/1/13 RESEARCH

COOK, DIANNE STATISTICS-LAS

$35,166 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

120190 MULTI-COUNTY PROGRAM ENHANCEMENT FOR AGRICULTURAL PRODUCER AND CONSUMER EDUCATION IN EXTENSION REGION 1

10/15/12 to 6/30/14 EXTENSION/PUBLIC

LAWRENCE, JOHN EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

HERONEMUS, CHERYL EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$34,934 SIOUX COUNTY EXTENSION OFFICE

118107 DELIVERY OF THE EMERGING AND EXOTIC DISEASES OF ANIMALS COURSE FOR INITIAL ACCREDITATION

9/1/12 to 8/31/13 EXTENSION/PUBLIC

ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

BROWN, GAYLE CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET

FLAMING, KEVAN CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET

$34,650 USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$34,047 BROOKHAVEN SCIENCE ASSOCIATES-BROOKHAVEN NATIONAL LABORATORY

119253 US ATLAS OPERATIONS PROGRAM MANAGER

8/29/12 to 8/31/13 DEPT/ADMIN SUPPORT
COCHRAN, JAMES PHYSICS & ASTRONOMY-LAS

$32,215 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

$31,000 VEF-VIETNAM EDUCATION FOUNDATION

104843 VIETNAM EDUCATION FOUNDATION FELLOWSHIP PROGRAM

8/1/09 to 7/31/14 FELLOWSHIP
GRAVES, WILLIAM GRADUATE COLLEGE-PROV

$30,059 USDA-FOREIGN AGRICULTURAL SERVICE (FAS)

119878 BORLAUG FELLOWS PROGRAM-ETHIOPIA

6/29/12 to 6/30/14 INSTRUCTION/TRAINING
YOUNGS, CURTIS ANIMAL SCIENCE-AES/CALS
BJELLAND, DENISE GLOBAL AGRICULTURE PROGRAMS-AES/CALS

$30,000 IA DPS-GOVERNORS TRAFFIC SAFETY BUREAU

120186 SEAT BELT USE SURVEY 2013

10/1/12 to 9/30/13 RESEARCH
HUCK, SHIRLEY SURVEY AND BEHAVIORAL RESEARCH SERVICES-VPR/ED
BJELLAND, DENISE SURVEY AND BEHAVIORAL RESEARCH SERVICES-VPR/ED

$29,334 IOWA DEPARTMENT OF TRANSPORTATION

119751 ADMINISTRATIVE COMPONENT OF THE INSTITUTE FOR TRANSPORTATION FY2013

7/1/12 to 6/30/13 RESEARCH
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED
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<td>SCHNEIDER, PETER</td>
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$25,000 IOWA PORK PRODUCERS ASSOCIATION

119788 CHARACTERIZATION OF PORCINE ASTROVIRUS INFECTION IN THE U.S. PIG POPULATION
10/1/12 to 10/1/13 RESEARCH
OPRIESSNIG, TANJA
VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$25,000 IOWA PORK PRODUCERS ASSOCIATION

119789 CHARACTERIZATION OF PORCINE PARTETRAVIRUS (PPTV) INFECTION IN GROWING PIGS
10/1/12 to 10/1/13 RESEARCH
HALBUR, PATRICK
OPRIESSNIG, TANJA
VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$25,000 IOWA DEPARTMENT OF TRANSPORTATION

120026 MEASURING SALT RETENTION
9/15/12 to 3/31/13 RESEARCH
HAWKINS, NEAL
ALDEМИR-BЕKTАS, BАSАK
HALLMARK, SHAUNA
INSTITUTE FOR TRANSPORTATION-VPR/ED
INSTITUTE FOR TRANSPORTATION-VPR/ED
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$25,000 UT-BATTLELLLE LLC-OAK RIDGE NATIONAL LABORATORY

120055 CHARGING INFRASTRUCTURE PLANNING AND IMPACT ASSESSMENT FOR PLUG-IN ELECTRIC VEHICLES
10/1/12 to 9/30/13 RESEARCH
DONG, JING
HALLMARK, SHAUNA
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$25,000 ASHLAND INC

120097 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP
9/20/12 to 9/19/13 RESEARCH
SHANKS, BRENТ
CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$25,000 USDA-AGRICULTURAL RESEARCH SERVICES (ARS)

120192 DEVELOPMENT AND IMPLEMENTATION OF NATURAL RESOURCE DATABASES
9/20/12 to 8/31/13 RESEARCH
KANE, KEVIN
INSTITUTE FOR DESIGN RESEARCH & OUTREACH-DSN
I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$25,000 JOWAT CORPORATION

120317 CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP

9/9/12 to 9/8/13 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$24,910 IOWA PORK PRODUCERS ASSOCIATION

119795 FLUORESCENT IN SITU HYBRIDIZATION FOR THE DETECTION OF NOVEL PATHOGENIC BRACHYSPIRA SPP. IN PORCINE COLONIC TISSUES
9/1/12 to 9/1/13 RESEARCH
BURROUGH, ERIC VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
SCHWARTZ, KENT VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$23,803 IOWA PORK PRODUCERS ASSOCIATION

119759 AGE RELATED CHANGES IN THE INTESTINAL MICROBIOME PROTECT NEONATAL PIGLETS FROM CLOSTRIDIUM DIFFICILE INFECTION
12/1/12 to 12/1/13 RESEARCH
CORNICK, NANCY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
MADSON, DARIN VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
PHILLIPS, GREGORY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
SONGER, J VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$23,333 AMERICAN INSTITUTE OF MATHEMATICS

120019 CONTRACT BETWEEN AMERICAN INSTITUTE OF MATHEMATICS AND IOWA STATE UNIVERSITY

10/1/07 to 9/30/13 MISCELLANEOUS
HOGBEN, LESLIE MATHEMATICS-LAS

$23,012 IOWA DEPARTMENT OF TRANSPORTATION

119691 TWO 1-DAY WORKSHOPS ON THE APPLICATION OF LOAD AND RESISTANCE FACTOR DESIGN OF DRIVEN PILES IN IOWA
8/28/12 to 12/31/12 RESEARCH
SRITHARAN, SIVALINGAM CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

$22,690 NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION

106563 UNDERSTANDING THE YOUNGEST X-RAY BINARY POPULATIONS IN LOW METALLICITIES
6/1/10 to 5/31/13 RESEARCH
ANTONIOU, VALSAMO PHYSICS & ASTRONOMY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

106563 UNDERSTANDING THE YOUNGEST X-RAY BINARY POPULATIONS IN LOW METALLICITIES
- INVESTIGATOR: MARENGO, MASSIMO
- AGENCY: NASA-NATIONAL AERONAUTICS & SPACE ADMINISTRATION
- DATES: 6/1/10 to 5/31/13
- RESEARCH
- FUNDING: $22,690

105718 THE EVOLUTION OF DUPLICATE OIL PATHWAYS IN POLYPLOID COTTON
- INVESTIGATOR: WENDEL, JONATHAN
- AGENCY: U.S.-ISRAEL BINATIONAL SCIENCE FOUNDATION
- DATES: 10/1/12 to 9/30/13
- RESEARCH
- FUNDING: $22,250

119887 DIMETHYL PYROLE SYNTHESIS FROM HMF
- INVESTIGATOR: SHANKS, BRENT
- AGENCY: CHEVRON PHILLIPS CHEMICAL COMPANY LLC
- DATES: 10/10/10 to 3/31/13
- RESEARCH
- FUNDING: $20,000

120122 NEW APPROACHES FOR AREA FRAME DEVELOPMENT, AREA SAMPLE DESIGN, AND GEOSPATIAL DATA COLLECTION
- INVESTIGATOR: NUSser, Sarah
- CO-PIs: Kim, Jae-Kwang; Yu, Cindy; Zhu, Zhengyuan
- AGENCY: USDA-NATIONAL AGRICULTURAL STATISTICS SERVICE (NASS)
- DATES: 3/1/11 to 9/30/13
- RESEARCH
- FUNDING: $20,000

118398 DESIGNING AND EVALUATING AN INTERNET INTERVENTION TO REDUCE STIGMA AND INCREASE HELP-SEEKING AMONG MILITARY PERSONNEL RETURNING FROM COMBAT
- INVESTIGATOR: VOGEL, DAVID
- CO-PIs: Wade, Nathaniel; Satterfield, Debra; Kang, Sung Hyun
- AGENCY: AMERICAN PSYCHOLOGICAL FOUNDATION
- DATES: 7/6/12 to 7/5/13
- RESEARCH
- FUNDING: $19,017
## GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

<table>
<thead>
<tr>
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<th>Amount</th>
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<td>HANS, ZACHARY</td>
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## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<tr>
<th>Grant Number</th>
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<td>118782</td>
<td>RURAL COMMUNITY DEVELOPMENT AND PRESERVATION THROUGH WOMEN, LAND AND LEGACY</td>
<td>CHASE, CRAIG</td>
<td>BREGENHAHL, CORENE</td>
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<td>120218</td>
<td>ELECTROMAGNETIC NONDESTRUCTIVE EVALUATION OF DEGRADATION AND DAMAGE IN POLYMER-MATRIX COMPOSITES</td>
<td>BOWLER, NICOLA</td>
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<td>120262</td>
<td>IOWA AMERICORPS STATE OF PROMISE PROGRAM</td>
<td>TALLMAN, KELI</td>
<td>MCCARTHY, JUDY</td>
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<td>117933</td>
<td>ESTABLISH AN ONLINE COLLABORATION AND E-LEARNING NETWORK IN GEORGIA</td>
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<td>SHANKS, BRENT</td>
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**Notes:**
- **IOWA VALLEY RC&D**: $9,649
- **UNIVERSITY OF NORTHERN IOWA**: $8,874
- **CENTREVILLE COMMUNITY SCHOOL DISTRICT**: $8,575
- **NORTH ATLANTIC TREATY ORGANIZATION**: $8,475
- **USDA-AGRICULTURAL RESEARCH SERVICES (ARS)**: $7,100
- **OPX BIOTECHNOLOGIES INC**: $6,250
- **CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP**: $7,100
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$5,475  USDA-FOREIGN AGRICULTURAL SERVICE (FAS)  4124523
119976  BORLAUG FELLOWSHIP PROGRAM-BEHUL BEHLULI-KOSOVO  
8/8/11  to  6/30/13  INSTRUCTION/TRAINING  
   YOUNGS, CURTIS  ANIMAL SCIENCE-AES/CALS  
   BJELLAND, DENISE  GLOBAL AGRICULTURE PROGRAMS-AES/CALS  

$5,000  USDA-ANIMAL & PLANT HEALTH INSPECTION SERVICE (APHIS)  4120551
119970  UPDATING NVAP MODULE 14: EVALUATION OF AQUATIC ANIMALS FOR REPORTABLE DISEASES AND PATHOGENS FOR THE USDA APHIS NVAP  
9/21/12  to  9/20/13  EXTENSION/PUBLIC  
   DVORAK, GLENDA  CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET  
   BICKETT-WEDDLE, DANELLE  CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET  

$5,000  NATIONAL 4-H COUNCIL  4003024
120034  NATIONAL YOUTH SCIENCE DAY 2012  
9/17/12  to  10/31/12  EXTENSION/PUBLIC  
   STAKER, JAY  EXTENSION 4-H YOUTH DEVELOPMENT-EXT  
   BIGNALL, HOLLY  EXTENSION 4-H YOUTH DEVELOPMENT-EXT  

$5,000  GLYCOS BIOTECHNOLOGIES INC  4007204
120092  CENTER FOR BIORENEWABLE CHEMICALS (CBIRC) MEMBERSHIP  
9/3/12  to  9/2/13  RESEARCH  
   SHANKS, BRENT  CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  

$4,900  IOWA ACADEMY OF SCIENCE  4754014
117846  DEVELOPMENT AND EVOLUTION OF A NOVEL BODY PLAN: THE TURTLE'S SHELL  
7/1/12  to  6/30/13  RESEARCH  
   JANZEN, FREDRIC  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS  
   CORDERO, GERARDO  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS  

$4,800  VSI AEROSPACE INC  4042099
107360  TOOLS FOR DYNAMIC ANALYSIS, SIMULATION, AND DESIGN OF CONTROL SURFACES WITH FREE PLAY  
8/1/10  to  5/31/11  RESEARCH  
   VAIDYA, UMESH  ELECTRICAL & COMPUTER ENGINEERING-ENGR
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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

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<td>HEALTHY FAMILIES/TEENLINE - BLOG WEB SITE</td>
<td>VANGINKEL, MARGARET</td>
<td>$2,106</td>
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<td>PONCHO/VOTIVO SOYBEAN INSECT EFFICACY SP12NARHG2</td>
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<td>$2,000</td>
<td>5/1/12 to 12/1/12</td>
<td>CHEMINOA INC</td>
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<td>ASSESS THE EFFICACY &amp; SELECTIVITY OF TOPGUARD SC WHEN FOLIAR APPLIED TO SOYBEAN FOR CONTROL OF SOYBEAN DISEASES IN 2012</td>
<td>YANG, XIAO; NAVI, SHRISHAIL; RODERMEL, STEVEN</td>
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<td>5/1/12 to 4/30/13</td>
<td>ED-U.S. DEPARTMENT OF EDUCATION</td>
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<td>106108</td>
<td>WORLD LANGUAGES AND CULTURES: GLOBAL PATHWAYS FOR EDUCATING STUDENTS IN BIODIVERSITY</td>
<td>RECTANUS, MARK; GASTA, CHAD; RODERMEL, STEVEN</td>
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<td>FIELD TRIALS FOR SOYBEAN DISEASE MANAGEMENT</td>
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<td>5/23/12 to 5/22/13</td>
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## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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