I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$865,830  PFIZER, INC
Characterization of Potentially Unknown Viral or Bacterial Pathogens in Cases of High Morbidity and Mortality in Pigs

7/7/08 to 7/6/10  RESEARCH
OPRIESSNIG, TANJA I
HALBUR, PATRICK G

CO-PI

VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$839,681  NATIONAL SCIENCE FOUNDATION
TRPGR: Cyberinfrastructure for (Comparative) Plant Genome Research Through PlantGDB

7/1/08 to 6/30/09  RESEARCH
BRENDEL, VOLKER

GENETICS, DEVELOPMENT & CELL BIOLOGY

$600,000  NATIONAL SCIENCE FOUNDATION
E2020 Scholars: Advancing the Vision at Iowa State University

7/15/08 to 6/30/13  SCHOLARSHIP
ROVER, DIANE
BRUNING, MONICA
SHELLEY, MACK

CO-PI

ATHREYA, KRISHNA
MICKELSON, STEVEN

CO-PI

ENGINEERING ADMINISTRATION
ENGINEERING ACADEMIC & STUDENT AFFAIRS
STATISTICS
ENGINEERING ACADEMIC & STUDENT AFFAIRS
AGRICULTURAL & BIOSYSTEMS ENGINEERING

$599,622  NATIONAL SCIENCE FOUNDATION
IGERT: Computational Molecular Biology Training Group

7/1/08 to 6/30/09  INSTRUCTION/TRAINING
VOYTAS, DANIEL F
ALURU, SRINIVAS
CARPENTER, SUSAN
DOBBS, DREA

CO-PI

GENETICS, DEVELOPMENT & CELL BIOLOGY
ELECTRICAL & COMPUTER ENGINEERING
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE
GENETICS, DEVELOPMENT & CELL BIOLOGY

CO-PI

COMPUTER SCIENCE

$581,522  DEPARTMENT OF AGRICULTURE, CSREES
Protein Utilization, IA: Advanced Soybean Biorefineries

9/1/08 to 8/31/09  RESEARCH
JOHNSON, LAWRENCE A
GLATZ, CHARLES E

CO-PI

FOOD SCIENCE & HUMAN NUTRITION-CALS
CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$581,522  DEPARTMENT OF AGRICULTURE, CSREES
Protein Utilization, IA: Advanced Soybean Biorefineries

9/1/08 to 8/31/09  RESEARCH

CO-PI MURPHY, PATRICIA A  FOOD SCIENCE & HUMAN NUTRITION-CALS
CO-PI KUO, MONLIN  NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS
CO-PI JUNG, STEPHANIE  FOOD SCIENCE & HUMAN NUTRITION-CALS
CO-PI SPURLOCK, MICHAEL E  FOOD SCIENCE & HUMAN NUTRITION-CALS
CO-PI WANG, TONG  FOOD SCIENCE & HUMAN NUTRITION-CALS

$410,816  DEPARTMENT OF AGRICULTURE, CSREES
Agricultural Trade Analysis

7/1/08 to 6/30/10  RESEARCH

HAYES, DERMOT J  ECONOMICS-CALS
CO-PI FABIOSA, JACINTO F  CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES

$400,000  NATIONAL SCIENCE FOUNDATION
Enabling Petascale Applications in the Chemical Sciences

10/1/07 to 9/30/09  RESEARCH

GORDON, MARK  CHEMISTRY
CO-PI LAMM, MONICA  CHEMICAL & BIOLOGICAL ENGINEERING
CO-PI SOSONKINA, MASHA  COMPUTER SCIENCE
CO-PI WINDUS, THERESA  CHEMISTRY

$399,620  DEPARTMENT OF AGRICULTURE, NRI
A New Open Reading Frame in the Potyviridae Genome

8/15/08 to 8/14/11  RESEARCH

MILLER, WYATT  PLANT PATHOLOGY

$375,000  MADISON COUNTY SUPERVISORS
Preservation of Covered Bridges

7/1/08 to 6/30/11  RESEARCH

PHARES, BRENT M  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
CO-PI WIPF, TERRY J  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
July 01 - 31, 2008

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$362,526 DEPARTMENT OF AGRICULTURE, CSREES
Food and Agricultural Policy Research Institute
7/15/08 to 7/14/10 RESEARCH
HAYES, DERMOT J ECONOMICS-CALS
FABIOSA, JACINTO F CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES

$342,500 NATIONAL SCIENCE FOUNDATION
MRI-Establishing a Terahertz Ray Research Facility
8/1/08 to 7/31/11 EQUIPMENT
THOMPSON, R. MATERIALS SCIENCE & ENGINEERING-ENGR
HOLLAND, STEPHEN AEROSPACE ENGINEERING-ENGR
BARNARD, DAN AMES LABORATORY DOE-VPR/ED
HSU, DAVID CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
CHIOU, CHIEN-PING CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
MEYER, TERRENCE MECHANICAL ENGINEERING-ENGR
PETRICH, JACOB CHEMISTRY-LAS
SOUKOULIS, COSTAS PHYSICS & ASTRONOMY-LAS
AMIN, VIREN CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED
HO, KAI-MING PHYSICS & ASTRONOMY-LAS
MCCLELLAND, JOHN AMES LABORATORY DOE-VPR/ED
ONG, SAY CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$312,197 DEPARTMENT OF AGRICULTURE, CSREES
North Central Regional Center for Rural Development
7/15/08 to 7/14/09 RESEARCH
FLORA, CORNELIA B SOCIOLOGY-CALS

$293,185 NATIONAL SCIENCE FOUNDATION
An Innovative Optimal Integration of Wind and Solar Resources for Reliable and Sustainable Power Generation
8/15/08 to 7/31/11 RESEARCH
AJJARAPU, VENKATARAMANA ELECTRICAL & COMPUTER ENGINEERING-ENGR
# II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

<table>
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<td>Conjugated Polymer-Quantum Rod Nanocomposites in Well-Defined Nanoscopic Geometry</td>
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<td>MATERIALS SCIENCE &amp; ENGINEERING-ENGR</td>
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<td>IOWA DEPARTMENT OF TRANSPORTATION</td>
<td>Curved Girder Bridges with Integral Abutments</td>
<td>PHARES, BRENT M LEE, YOON-SI</td>
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<td>$246,109</td>
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<td>Control Theory for Quantum Walks on Graphs and Its Applications to Quantum Algorithms</td>
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<td>NATIONAL SCIENCE FOUNDATION</td>
<td>Assembly and Stability of Metal Nanostructures on Surfaces</td>
<td>EVANS, JAMES THIEL, PATRICIA</td>
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<td>Enhancement for the Safety of Pork Products</td>
<td>DICKSON, JAMES S</td>
<td>ANIMAL SCIENCE-CALS</td>
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<td>IOWA DEPARTMENT OF TRANSPORTATION</td>
<td>Develop Statewide Urban Design and Specifications Manuals for Public Improvements FY2009</td>
<td>STEVENS, LARRY J NAMBISAN, SHASHI S</td>
<td>CENTER FOR TRANSPORTATION RESEARCH &amp; EDUCATION-VPR/ED</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$209,999  NATIONAL SCIENCE FOUNDATION
Analysis and Control of Complex Behavior: Linear Transfer Operator Framework
8/15/08  to  7/31/11  RESEARCH
VAIDYA, UMESH  ELECTRICAL & COMPUTER ENGINEERING

$199,999  NATIONAL SCIENCE FOUNDATION
High-Performance Micro-Forming, Joining, and Punching Processes Enabled by a Novel Design and Control of Magnetostrictive Actuators
7/1/08  to  6/30/11  RESEARCH
FAIDLEY, LEANN  MECHANICAL ENGINEERING
ZOU, QINGZE  MECHANICAL ENGINEERING
KIM, GAP-YONG  MECHANICAL ENGINEERING

$189,661  DEPARTMENT OF ENERGY
Rosenberg; IPA Assignment
9/1/08  to  8/31/10  FELLOWSHIP
ROSENBERG, ELI I  PHYSICS & ASTRONOMY-LAS

$181,953  PIONEER HI-BRED INTERNATIONAL, INC
Characterizing Corn Rootworm Larval Mortality Factors and Movement in OptimumÂ® AcreMax™
7/24/08  to  7/23/11  RESEARCH
GASSMANN, AARON J  ENTOMOLOGY-AES

$154,000  BINATIONAL AGRICULTURAL RESEARCH AND DEVELOPMENT FUND
Post-Transcriptional Regulation of Host Genes in Potyviral Infections at the Shoot Apex
8/1/08  to  7/31/11  RESEARCH
WHITHAM, STEVEN  PLANT PATHOLOGY

$148,909  WELLMARK FOUNDATION
Promoting Health Literacy Through the School Nutrition Environment
7/1/08  to  6/30/10  EXTENSION/PUBLIC
LITCHFIELD, RUTH E  FOOD SCIENCE & HUMAN NUTRITION-EXT
## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

### $145,738 DEPARTMENT OF AGRICULTURE
- Iowa Vitality Center
  - EDELMAN, MARK A
  - ECONOMICS-EXT
  - 8/1/08 to 7/31/09 EXTENSION/PUBLIC

### $138,772 IOWA COLLEGE STUDENT AID COMMISSION
- Iowa Work-Study Program
  - JOHNSON, ROBERTA L
  - STUDENT FINANCIAL AID-VPSA
  - 7/1/08 to 6/30/09

### $120,997 NATIONAL SCIENCE FOUNDATION
- CPA - ACR: Parallel Algorithms and Software for Large Scale Microarry Data Analysis and Gene Network Inference
  - ALELU, SRINIVAS
  - ELECTRICAL & COMPUTER ENGINEERING
  - ALELU, MANEESHA
  - ELECTRICAL & COMPUTER ENGINEERING
  - NETTLETON, DANIEL
  - STATISTICS
  - 8/1/08 to 7/31/09 RESEARCH

### $120,997 NATIONAL SCIENCE FOUNDATION
- NeTS-NBD: Survivable Multipoint Traffic Grooming in Optical Networks
  - KAMAL, AHMED
  - ELECTRICAL & COMPUTER ENGINEERING
  - RAMAMOORTHY, ADITYA
  - ELECTRICAL & COMPUTER ENGINEERING
  - 7/3/08 to 7/31/09 RESEARCH

### $103,700 NATIONAL SCIENCE FOUNDATION
- Nets-NBD: Network Coding-Based Protection
  - KAMAL, AHMED
  - ELECTRICAL & COMPUTER ENGINEERING
  - RAMAMOORTHY, ADITYA
  - ELECTRICAL & COMPUTER ENGINEERING
  - 8/1/08 to 7/31/09 RESEARCH

### $103,209 NATIONAL SCIENCE FOUNDATION
- Collaborative Research: Research in Complexity Theory
  - ADURI, PAVANKUMAR R
  - COMPUTER SCIENCE-LAS
  - 8/1/08 to 7/31/10 RESEARCH

### $100,644 NATIONAL SCIENCE FOUNDATION
- NeTS-NBD: Survivable Multipoint Traffic Grooming in Optical Networks
  - KAMAL, AHMED
  - ELECTRICAL & COMPUTER ENGINEERING
  - SOMANI, ARUN
  - ELECTRICAL & COMPUTER ENGINEERING
  - 7/3/08 to 7/31/09 RESEARCH
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

July 01 - 31, 2008

$100,000 UNIVERSITY OF IOWA
Development of Novel Bioactive Materials to Treat Acute Mechanical Damage Sustained by Cartilage to Prevent Post-Traumatic Osteo-Arthritis
3/27/08 to 6/30/09 RESEARCH
MALLAPRAGADA, SURYA CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
CO-PI LIN, ZHIQUN MATERIALS SCIENCE & ENGINEERING-ENGR

$94,000 NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION
Multi-RCM Ensemble Downscaling of NCEP CFS Seasonal Forecasts
7/1/08 to 6/30/11 RESEARCH
ARRITT, RAYMOND AGRONOMY
CO-PI GUTOWSKI, WILLIAM GEOLOGICAL & ATMOSPHERIC SCIENCES
CO-PI TAKLE, GENE AGRONOMY

$87,207 NATIONAL SCIENCE FOUNDATION
Galfacts Full-Stokes Studies of SNRS and HII Regions
7/1/08 to 6/30/09 RESEARCH
KERTON, CHARLES PHYSICS & ASTRONOMY

$82,000 IOWA DEPARTMENT OF PUBLIC HEALTH
1-800 Bets Off Helpline
7/1/08 to 6/30/09 EXTENSION/PUBLIC
GLENN, SHERRY J EXTENSION TO FAMILIES-EXT
CO-PI VANGINKEL, MARGARET E EXTENSION TO FAMILIES-EXT

$79,878 NATIONAL SCIENCE FOUNDATION
CAREER: Composition Approaches for the Analysis of Complex Systems
8/1/06 to 7/31/09 RESEARCH
MINER, ANDREW COMPUTER SCIENCE

$79,442 WORLD HEALTH ORGANIZATION
Software to Calculate the Level of Food Fortification with Micronutrients
5/1/08 to 5/31/09 MISCELLANEOUS
CARRIQUIRY, ALICIA STATISTICS-LAS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$75,000 STANFORD UNIVERSITY
   DARPA Dimensionality Reduction and Data Mining
   9/1/06 to 8/31/09 RESEARCH
   RAJAN, KRISHNA MATERIALS SCIENCE & ENGINEERING

$69,000 MADDIES FUND
   Maddie's Shelter Medicine Teaching and Research Program
   4/1/08 to 3/31/09 INSTRUCTION/TRAINING
   BALDWIN, CLAUDIA VETERINARY CLINICAL SCIENCES-VET
   PETERSEN, CHRISTINE VETERINARY PATHOLOGY-VET

$64,377 UNIVERSITY OF NEBRASKA-LINCOLN
   Multi-Laser-Beam Open-Atmosphere Surface Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling
   1/1/08 to 8/29/08 RESEARCH
   WANG, XINWEI MECHANICAL ENGINEERING-ENGR

$62,174 UNIVERSITY OF ILLINOIS
   The Sudden Death Syndrome Research Alliance
   3/1/08 to 2/28/09 RESEARCH
   BHATTACHARYYA, MADAN AGRONOMY
   CIANZIO, SILVIA AGRONOMY
   LEANDRO, LEONOR PLANT PATHOLOGY

$61,336 INSTITUTE FOR TECHNOLOGY DEVELOPMENT
   Fluorescence Multispectral/Hyperspectral Imaging for Food Safety
   8/1/08 to 7/31/09 RESEARCH
   TANG, LIE AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$60,000 NATIONAL SCIENCE FOUNDATION
   Collaborative Proposal: Center for Information Protection
   9/1/05 to 8/31/10 RESEARCH
   JACOBSON, DOUG ELECTRICAL & COMPUTER ENGINEERING
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>IOWA DEPARTMENT OF NATURAL RESOURCES</td>
<td>SRF - Water Quality Survey</td>
<td>ONG, SAY</td>
<td>1/7/08 to 6/30/09</td>
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<td>$55,686</td>
<td>DUCK JEAN ENTERPRISE COMPANY, LTD</td>
<td>Research Consulting Agreement Between Duck Jean and Iowa State University</td>
<td>KOEHLER, KENNETH J</td>
<td>7/1/08 to 6/30/11</td>
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<td>$55,000</td>
<td>DEPARTMENT OF AGRICULTURE, APHIS</td>
<td>Support for the Emerging and Exotic Diseases of Animals Internet Course and Textbook for Veterinary Students in Fall of 2008</td>
<td>ROTH, JAMES A</td>
<td>7/11/08 to 12/31/08</td>
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<td>$50,275</td>
<td>ENVIRONMENTAL PROTECTION AGENCY</td>
<td>Implementing Ecologically Based Management of Curcurbit Bacterial Wilt</td>
<td>GLEASON, MARK L, BATZER, JEAN C, LEWIS, DONALD R, DUFFY, MICHAEL D</td>
<td>6/1/08 to 6/30/10</td>
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<td>JET PROPULSION LABORATORY</td>
<td>Intermediate-Mass Star Forming Regions</td>
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<td>7/21/08 to 6/30/10</td>
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<td>STATE OF IOWA, WOODWARD RESOURCE CENTER</td>
<td>Adaptive Equipment</td>
<td>FRANK, MATTHEW C</td>
<td>7/1/08 to 6/30/09</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$42,990  IOWA DEPARTMENT OF TRANSPORTATION  474-17-04
Evaluating the Effectiveness of Temporary Work Zone Pavement Marking Products
7/1/08  to  12/31/09  RESEARCH
HAWKINS, NEAL R
SMADI, OMAR G
CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$40,000  IOWA DEPARTMENT OF NATURAL RESOURCES  473-40-50
Iowa Cooperative Fish and Wildlife Research Unit Base Funding, FY09
7/1/08  to  6/30/09  RESEARCH
OTIS, DAVID L
KOFORD, ROLF R
PIERCE, CLAY L
NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS

$35,100  AIR FORCE OFFICE OF SCIENTIFIC RESEARCH  421-25-05
Virtual Teleoperation for Unmanned Aerial Vehicles
8/1/08  to  5/14/09  RESEARCH
OLIVER, JAMES H
MECHANICAL ENGINEERING-ENGR

$34,779  ANNIE E. CASEY FOUNDATION  400-43-77
Measuring the Impact of Coaching for Community Change: A Proposal for Phase 1 of an Evaluation Strategy
7/1/08  to  6/30/09  RESEARCH
EMERY, MARY E
SOCIOLOGY-CALS

$33,712  NATIONAL INSTITUTES OF HEALTH  430-23-38
Summer Research Training of Veterinary Medical Students
6/1/08  to  5/31/09  INSTRUCTION/TRAINING
REYNOLDS, DONALD
VETERINARY MEDICINE ADMINISTRATION

$29,504  UNIVERSITY OF NEBRASKA  410-30-92
Managing Risk in Agritourism Enterprise Development
7/1/08  to  6/30/09  EXTENSION/PUBLIC
HANSEN, RAYMOND
LAUX, MARSHA
VALUE ADDED AGRICULTURE-EXT
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$28,000 NORTH CAROLINA STATE UNIVERSITY
Dairy Records Management System
5/1/07 to 4/30/08 EXTENSION/PUBLIC
HOGBERG, MAYNARD ANIMAL SCIENCE
PALAS, GREGORY ANIMAL SCIENCE
CO-PI

$27,000 VIETNAM EDUCATION FOUNDATION
Vietnam Education Foundation Fellowship
8/1/08 to 7/31/09 FELLOWSHIP
HOLGER, DAVID GRADUATE COLLEGE

$25,000 IOWA STATE UNIVERSITY RESEARCH FOUNDATION
Development of Lead-Free Solder with Enhanced Performance and Reliability
7/1/08 to 12/31/08 RESEARCH
ANDERSON, IVER E MATERIALS SCIENCE & ENGINEERING-ENGR

$23,105 IOWA EGG COUNCIL
Modification of Egg Yolk Protein for Improved Iron Bioavailability
7/1/07 to 6/30/08 RESEARCH
WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES

$20,220 PEACE CORPS REGIONAL OFFICE
Peace Corps Iowa State University Strategy Contract 2008-09
8/15/08 to 5/15/09 DEPT/ADMIN SUPPORT
NELSON, TREVOR STUDY ABROAD CENTER-PROV

$19,998 UNIVERSITY OF CALIFORNIA- DAVIS
Impact of Social Capital on Food Security in Southeast Uganda
6/18/08 to 6/17/09 FELLOWSHIP
MAZUR, ROBERT E SOCIOLOGY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$13,063 HUMANITIES IOWA
Sustaining the Earth: Public Scholarship in the Arts and Humanities
7/1/08 to 12/31/08 EXTENSION/PUBLIC
KUPFER, JOSEPH H PHILOSOPHY & RELIGIOUS STUDIES
GOODWIN, JEAN ENGLISH-LAS
WOLF, JOHN W PHILOSOPHY & RELIGIOUS STUDIES-LAS

$11,000 POLK COUNTY DEPARTMENT OF HEALTH
Mass Vaccination System Development and Modeling for Polk County Department of Health
7/1/08 to 10/1/08 RESEARCH
PETERS, FRANK E INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$10,642 EPPLEY FOUNDATION FOR RESEARCH
The Ecology and Evolution of Reproductive Investment in an Invasive Lizard, Anolis Sagrei
7/8/08 to 7/1/09 RESEARCH
JANZEN, FREDRIC J ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-CALS

$10,183 ENVIRONMENTAL PROTECTION AGENCY
Forest Change in the Midwest: The Impact of Stakeholders Perceptions and Management Actions on the Fate of Our Oak Forest
8/21/06 to 8/21/09 FELLOWSHIP
SCHULTE, LISA NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS

$10,000 CONOCOPHILLIPS COMPANY
Biofuels Research Program (2008)
1/1/08 to 12/31/08 RESEARCH
BROWN, ROBERT MECHANICAL ENGINEERING-ENGR
HARGROVE, MARK BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS
SUNG, SHIHWU CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
MCCLELLAND, JOHN INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY-VPR/ED
MEYER, TERRENCE MECHANICAL ENGINEERING-ENGR
PHILLIPS, GREGORY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
horton, ROBERT AGRONOMY-AES
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$10,000 CONOCOPHILLIPS COMPANY
Biofuels Research Program (2008)
1/1/08 to 12/31/08 RESEARCH
CO-PI BOBIK, THOMAS BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES
CO-PI LIEBMAN, MATTHEW AGRONOMY-AES
CO-PI BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES
CO-PI DUFFY, MICHAEL ECONOMICS-AES
CO-PI HEINDEL, THEODORE MECHANICAL ENGINEERING-ENGR
CO-PI NORTON, GLENN CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES - IPRT-VPR/ED
CO-PI NIKOLAU, BASIL BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES

$9,100 NATIONAL SCIENCE FOUNDATION
Gene Expression Response to Environmental Change in Turtles with Alternative Sex Determination
7/5/08 to 2/28/09 RESEARCH
VALENZUELA-CASTRO, MARIA ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$8,000 THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING, INC
Graduate Course in Eddy Current NDE for Distance Learning
5/15/08 to 12/31/08 INSTRUCTION/TRAINING
BOWLER, NICOLA MATERIALS SCIENCE & ENGINEERING

$6,791 NATIONAL INSTITUTE ON MEDIA AND THE FAMILY
Switch Program Data Analysis and Reporting
8/1/08 to 12/31/08 RESEARCH
GENTILE, DOUGLAS A PSYCHOLOGY-LAS

$5,000 IOWA ACADEMY OF SCIENCE
Genetic Diversity and Connectivity of White-Tailed Jackrabbit Populations in Iowa, with Notes on Seasonal Home Ranges
7/1/08 to 6/30/09 RESEARCH
FAIRBANKS, WENDELYN NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS
CO-PI BLANCHONG, JULIE NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>IOWA ACADEMY OF SCIENCE</td>
<td>CLARK, WILLIAM</td>
<td>Genetic Relationships of Bobcats in Iowa and Surrounding Midwestern States 7/1/08 to 6/3/09 RESEARCH ECOLOGY, EVOLUTION &amp; ORGANISMAL BIOLOGY-CALS</td>
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<td>400-43-62</td>
<td>$4,949</td>
<td>IOWA ACADEMY OF SCIENCE</td>
<td>JANZEN, FREDRIC</td>
<td>Microevolution of Sex Determination Mechanisms: A Case Study of Within-Species Variation in Caenorhabditis Elegans 7/1/08 to 6/30/09 RESEARCH ECOLOGY, EVOLUTION &amp; ORGANISMAL BIOLOGY-CALS</td>
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<td>478-40-03</td>
<td>$4,800</td>
<td>IOWA DEPARTMENT OF PUBLIC HEALTH</td>
<td>PIROG, RICHARD S</td>
<td>Iowa Food Policy Council Report 6/1/08 to 6/30/08 MISCELLANEOUS LEOPOLD CENTER-AES</td>
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<td>400-61-61</td>
<td>$3,851</td>
<td>PRAIRIE ENERGY COOPERATIVE</td>
<td>HILL, MATTHEW</td>
<td>Phase 1 Archaeological Surveys for Overhead Line in Webster, Hamilton, and Worth Counties 2/25/08 to 6/30/08 EXTENSION/PUBLIC ANTHROPOLOGY-LAS</td>
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<td>400-02-16</td>
<td>$3,750</td>
<td>UNIVERSITY OF NORTHERN IOWA</td>
<td>BYRD, WILLIAM</td>
<td>Iowa Space Grant Consortium Match 8/1/08 to 12/31/99 RESEARCH AEROSPACE ENGINEERING</td>
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<td>400-07-03</td>
<td>$3,328</td>
<td>CITY OF SOUTH SIOUX CITY</td>
<td>BASSLER, BRUCE</td>
<td>South Sioux City Sleeping Cabins 2/1/08 to 6/30/08 INSTRUCTION/TRAINING ARCHITECTURE-DSN</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$2,430  IOWA COLLEGE STUDENT AID COMMISSION
Iowa Work Study Program
7/1/07 to 6/30/08  STUDENT FINANCIAL AID
JOHNSON, ROBERTA L  STUDENT FINANCIAL AID-VPSA

$2,374  VETERANS ADMINISTRATION MEDICAL CENTER - IOWA CITY
Neurotrophic Growth Factor Treatment for Optic Nerve Damage
7/1/08 to 9/30/08  RESEARCH
GROZDANIC, SINISA  VETERINARY CLINICAL SCIENCES

$2,097  CIRIS ENERGY, INC
Coal Solubilization Research
1/1/08 to 12/31/08  EQUIPMENT
VERKADE, JOHN  CHEMISTRY-LAS