II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$14,275,530  DEPARTMENT OF ENERGY
93016  Operating and Management Support for the Ames Laboratory
11/1/08  to  9/30/09  RESEARCH
KING, ALEXANDER  AMES LABORATORY

$2,103,000  AIR FORCE RESEARCH LABORATORY
99100  Quantitative Inspection Techniques for Assessing Aging Military Aircraft
4/30/04  to  9/30/10  RESEARCH
THOMPSON, R.,
CO-PI: BRASCHE, LISA
MATERIALS SCIENCE & ENGINEERING-ENGR
CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED

$1,921,503  DEPARTMENT OF AGRICULTURE, CSREES
97455  FY09 Hatch Multistate Research
10/1/08  to  9/30/09  RESEARCH
WINTERSTEEN, WENDY  AGRICULTURE ADMINISTRATION-CALS

$1,760,000  DEPARTMENT OF ENERGY
93016  Operating and Management Support for the Ames Laboratory
11/1/08  to  9/30/09  RESEARCH
KING, ALEXANDER  AMES LABORATORY

$1,458,858  IOWA DEPARTMENT OF HUMAN SERVICES
104068  Home and Community Based Services
6/30/09  to  6/30/12  EXTENSION/PUBLIC
LEMPERS, JACOBUS  HUMAN DEVELOPMENT & FAMILY STUDIES-HS

$1,235,079  IOWA DEPARTMENT OF HUMAN SERVICES
104172  Service Training FOSU-10-001
7/1/09  to  6/30/10  INSTRUCTION/TRAINING
LEMPERS, JACOBUS  HUMAN DEVELOPMENT & FAMILY STUDIES-HS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,000,000  NATIONAL SCIENCE FOUNDATION

97715  Mechanism and Genetic Impacts of Transposon-Induced Duplications in Maize

9/1/09  to  8/31/12  RESEARCH

PETERSON, THOMAS  GENETICS, DEVELOPMENT & CELL BIOLOGY-CALS
ZHANG, JIANBO  GENETICS, DEVELOPMENT & CELL BIOLOGY-CALS
NETTLETON, DAN  STATISTICS-AES

$1,000,000  IOWA STATE UNIVERSITY RESEARCH FOUNDATION

104412  Research Enhancement

6/25/09  to  12/31/99  RESEARCH

QUISENBERRY, SHARRON  VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED

$729,711  NATIONAL INSTITUTES OF HEALTH

91406  A Measurement Error Approach to Estimating Usual Daily Physical Activity Distributions

6/1/09  to  5/31/10  RESEARCH

WELK, GREGORY  KINESIOLOGY
CARRIQUIRY, ALICIA  STATISTICS
NUSSER, SARAH  STATISTICS

$699,557  SOUTH DAKOTA STATE UNIVERSITY

96531  Evaluation of Infield Corn Stover Densification and Interaction with Storage Quality, Logistics, and Production Cost

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

DARR, MATTHEW  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
BIRRELL, STUART  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
ANEX, ROBERT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
BROWN, ROBERT  MECHANICAL ENGINEERING-ENGR

$693,356  NATIONAL SCIENCE FOUNDATION

97460  Investigating Gibberellin Phytohormone Metabolism

8/1/09  to  7/31/13  RESEARCH

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

$600,000 NATIONAL SCIENCE FOUNDATION

CAREER: Development of Novel Methods to Measure Cell Membrane Protein Clustering in Vivo: Unraveling the Relationship Between Clustering, Ligand Binding and Cell Signaling
8/1/09 to 7/31/14 RESEARCH
SMITH, EMILY CHEMISTRY-LAS

$595,418 NATIONAL SCIENCE FOUNDATION

IGERT: Computational Molecular Biology Training Group
7/1/09 to 6/30/10 INSTRUCTION/TRAINING
DOBBS, DRENA GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS
ALURU, SRINIVAS ELECTRICAL & COMPUTER ENGINEERING-ENGR
HONAVAR, VASANT COMPUTER SCIENCE-LAS

$573,492 DEPARTMENT OF ENERGY

Operating and Management Support for the Ames Laboratory
11/1/08 to 9/30/09 RESEARCH
KING, ALEXANDER AMES LABORATORY

$563,501 NATIONAL INSTITUTES OF HEALTH

Dissecting the Structure and Function of the PDU Microcompartment in Salmonella
7/17/09 to 6/30/10 RESEARCH
BOBIK, THOMAS BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

$497,784 NATIONAL SCIENCE FOUNDATION

AF:Small: Parallel Methods for Large Atomic-Scale Quantitative Analysis of Materials
7/15/09 to 6/30/12 RESEARCH
ALURU, SRINIVAS ELECTRICAL & COMPUTER ENGINEERING-ENGR
GANAPATHYSUBRAMANIAN, B MECHANICAL ENGINEERING-ENGR
RAJAN, KRISHNA MATERIALS SCIENCE & ENGINEERING-ENGR

$485,586 STATE LIBRARY OF IOWA

State of Iowa Libraries Online Project
7/1/09 to 6/30/10 EXTENSION/PUBLIC
MADISON, OLIVIA PARKS LIBRARY-PROV
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$475,000 NATIONAL SCIENCE FOUNDATION

95662 CAREER: Block Copolymer/Layered Silicate Nanocomposites—Dynamics and Thermodynamics

8/1/09 to 7/31/14 RESEARCH
COCHRAN, ERIC CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$455,862 NATIONAL SCIENCE FOUNDATION

94523 Analysis of Predictability of Convective Initiation and Morphological Evolution Using Near-Cloud Permitting Grid Spacing Models

7/15/09 to 6/30/12 RESEARCH
GALLUS, WILLIAM GEOLOGICAL & ATMOSPHERIC SCIENCES-LAS
SEGAL, MORDECAI AGRONOMY-CALS

$420,462 DEPARTMENT OF AGRICULTURE, CSREES

99376 Human Nutrition, IA

9/1/09 to 8/31/10 RESEARCH
BIRT, DIANE FOOD SCIENCE & HUMAN NUTRITION-AES/CALS

$387,459 IOWA DEPARTMENT OF TRANSPORTATION

99430 Work Plan for the Administrative Component of the Institute for Transportation FY2010

7/1/09 to 6/30/10 RESEARCH
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED
GRAHAM, JANICE INSTITUTE FOR TRANSPORTATION-VPR/ED
BRINK, MARCIA INSTITUTE FOR TRANSPORTATION-VPR/ED

$361,649 NATIONAL INSTITUTES OF HEALTH

92538 A Modular Approach for Combinatorial Biosynthesis of Functionalized Terpenoids

7/1/09 to 6/30/10 RESEARCH
PETERS, REUBEN BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS

$349,990 NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

97177 Recommended Laboratory Test for Predicting the Initial Retroreflectivity of Pavement Markings from Glass Bead Quality

6/25/09 to 6/25/12 RESEARCH
SMADI, OMAR CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
HAWKINS, NEAL CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$349,990 NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM 428-17-16

97117 Recommended Laboratory Test for Predicting the Initial Retroreflectivity of Pavement Markings from Glass Bead Quality

6/25/09 to 6/25/12 RESEARCH
CO-PI NAMBI SAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$341,000 DEPARTMENT OF EDUCATION 432-28-03

79481 National K-12 Foreign Language Resource Center

8/15/09 to 8/14/10 INSTRUCTION/TRAINING
RO SENBUSCH, MARCIA CURRICULUM & INSTRUCTION

$340,238 DEPARTMENT OF AGRICULTURE, CSREES 416-44-10

99441 Food and Agricultural Policy Research Institute

7/15/09 to 7/14/11 RESEARCH
HAYES, DERMOT ECONOMICS-AES/CALS
CO-PI FABIOSA, JACINTO ECONOMICS-AES/CALS

$325,002 NATIONAL SCIENCE FOUNDATION 420-20-11

98187 Understanding the Thermal Response at Short Time Scales in Near-Apex Regions of a Nanoprobe During Ultra-Fast Laser Irradiation

8/15/09 to 7/31/12 RESEARCH
SUNDARARAJAN, SRIRAM MECHANICAL ENGINEERING-ENGR
CO-PI WANG, XINWEI MECHANICAL ENGINEERING-ENGR

$323,000 NATIONAL SCIENCE FOUNDATION 420-20-40

85893 Materials World Network: An International Collaborative Educational and Research Program in the Study of Mixed Glass Former Phenomena in Materials

8/15/07 to 7/31/10 RESEARCH
MARTIN, STEVE MATERIALS SCIENCE & ENGINEERING

$321,000 DEPARTMENT OF ENERGY 401-21-05

92218 Intermediate/High Energy Nuclear Physics

6/15/09 to 6/14/10 RESEARCH
VARY, JAMES PHYSICS & ASTRONOMY-LAS
CO-PI QIU, JIANWEI PHYSICS & ASTRONOMY-LAS
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$282,252 NATIONAL INSTITUTES OF HEALTH, NATIONAL CANCER INSTITUTE

98874 Strategies of Lentivirus Persistence

8/1/09 to 1/31/10 RESEARCH

CO-PI DORMAN, KARIN STATISTICS-LAS

$279,279 NATIONAL SCIENCE FOUNDATION

97092 CCF (FIF): Small: Recursive Reconstruction of Sparse Signal Sequences

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

CO-PI VASWANI, NAMRATA ELECTRICAL & COMPUTER ENGINEERING-ENGR

$279,001 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

96186 Molecular Basis for the Role of the Vacuole in Shoot Gravitropism

8/1/09 to 7/13/12 RESEARCH

CO-PI BASSHAM, DIANE GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

$269,903 DEPARTMENT OF AGRICULTURE, CSREES

97491 Iowa Extension Integrated Pest Management Coordination Program

7/1/09 to 6/30/10 EXTENSION/PUBLIC

CO-PI BROWN, PAUL EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

CO-PI MUELLER, DAREN PLANT PATHOLOGY-EXT

CO-PI POPE, RICHARD ENTOMOLOGY-EXT

CO-PI JESSE, LAUR PLANT PATHOLOGY-EXT

$269,500 DEPARTMENT OF AGRICULTURE, APHIS

98851 Delivery of the Emerging and Exotic Diseases of Animals Course for Initial Accreditation

4/1/09 to 3/31/10 INSTRUCTION/TRAINING

CO-PI ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

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

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

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

CO-PI DVORAK, GLENDA CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$266,048 NATIONAL SCIENCE FOUNDATION

98248 Thermophysical Properties of Titania Nanowires: Novel Characterization Toward High-Degree Property and Structure Manipulation in Manufacturing
6/1/09 to 8/31/12 RESEARCH
WANG, XINWEI
MECHANICAL ENGINEERING-ENGR

$250,000 DEPARTMENT OF EDUCATION
104133 Iowa State University Trio Upward Bound
6/1/09 to 8/31/10 INSTRUCTION/TRAINING
AGYEMAN, JANE
ENROLLMENT SERVICES-VPSA

$243,000 NATIONAL SCIENCE FOUNDATION
90658 Graduate Research Fellowship Program
8/15/07 to 7/31/12 RESEARCH
HOLGER, DAVID
GRADUATE COLLEGE

$227,126 NATIONAL INSTITUTES OF HEALTH
88794 Control of Cap-Independent Translation by a Viral 3' UTR
8/1/09 to 7/31/10 RESEARCH
MILLER, WYATT
PLANT PATHOLOGY

$217,190 IOWA DEPARTMENT OF NATURAL RESOURCES
99148 2009 Iowa Lakes Monitoring
5/1/09 to 2/26/10 RESEARCH
DOWNING, JOHN
ECOLOGY, EVOLUTION & ORGANISIMAL BIOLOGY-AES/CALS
POOLE, KELLY
ECOLOGY, EVOLUTION & ORGANISIMAL BIOLOGY-AES/CALS

$215,000 WASHINGTON UNIVERSITY
97675 Identification and Characterization of Antiviral Compounds that Target Ebola VP35
4/9/09 to 2/28/10 RESEARCH
AMARASINGHE, GAYA
BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS
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<td>Structural Reorganization of Nuclear Proteins During Mitosis</td>
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**I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT**

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$198,892  DEPARTMENT OF EDUCATION  432-28-04

Collaborative Leadership Training Program: Early Childhood Special Education

1/1/10 to 12/31/10  INSTRUCTION/TRAINING

BROTHElia, MARY  HUMAN DEVELOPMENT & FAMILY STUDIES
LUZE, GAYLE  HUMAN DEVELOPMENT & FAMILY STUDIES
PETERSOlia, CARLA  HUMAN DEVELOPMENT & FAMILY STUDIES
SMITH, CARL  CURRICULUM & INSTRUCTION

$186,060  IOWA DEPARTMENT OF NATURAL RESOURCES  473-30-40

Manure Applicator Certification Training

7/1/09 to 6/30/10  EXTENSION/PUBLIC

MILLER, GERALD  AGRONOMY-EXT
RIECK-HINZ, ANGELA  AGRONOMY-EXT

$179,806  DEPARTMENT OF AGRICULTURE, CSREES, NRI  416-40-13

Bioinformatics to Implement Genomic Selection

1/1/09 to 12/31/11  RESEARCH

GARRICK, DORIAN  ANIMAL SCIENCE-AES
DEKKERS, JACK  ANIMAL SCIENCE-CALS
FERNANDO, ROHAN  ANIMAL SCIENCE-CALS
NETTLETON, DANIEL  STATISTICS-LAS

$170,065  NATIONAL SCIENCE FOUNDATION  420-21-72

The Integration of Cellular Stress Response, Immune Function and Aging in Long- and Short-Lived Ecotypes of Garter Snake

8/1/09 to 7/31/10  RESEARCH
BRONIKOWSKI, ANNE  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$169,982  NATIONAL SCIENCE FOUNDATION  441-21-01

Nonparametric Likelihood for Dependent Data

7/1/09 to 6/30/12  RESEARCH
NORDMAN, DANIEL  STATISTICS-LAS
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$162,500  IOWA SOYBEAN ASSOCIATION

104275  Entomology Extension and Research Initiative

5/1/09  to 4/30/10  EXTENSION/PUBLIC
LEWIS, LES
ENTOMOLOGY-AES/CALS

$160,000  IOWA DEPARTMENT OF TRANSPORTATION

99496  Administrative Component for the National Concrete Pavement Technology Center FY2010

7/1/09  to 6/30/10  RESEARCH
NAMBISAN, SHASHI
CACKLER, ELLS
INSTITUTE FOR TRANSPORTATION-VPR/ED
INSTITUTE FOR TRANSPORTATION-VPR/ED

$160,000  IOWA DEPARTMENT OF TRANSPORTATION

99738  Student Programmers for the Iowa Department of Transportation

7/1/09  to 6/30/10  RESEARCH
HANS, ZACHARY
MORRIS, TIMOTHY
NAMBISAN, SHASHI
INSTITUTE FOR TRANSPORTATION-VPR/ED
INSTITUTE FOR TRANSPORTATION-VPR/ED
INSTITUTE FOR TRANSPORTATION-VPR/ED

$155,000  NORTHWEST AREA FOUNDATION

95687  Horizons Community Implementation Project Phase III

7/17/08  to 7/31/10  EXTENSION/PUBLIC
WARNING, JEANNE
FLETCHER, CYNTHIA
FREEMAN, RUTH
EXTENSION TO FAMILIES-EXT
HUMAN DEVELOPMENT & FAMILY STUDIES-EXT
EXTENSION TO FAMILIES-EXT

$155,000  IOWA DEPARTMENT OF TRANSPORTATION

99288  Development of Performance Measures of Ternary Mixtures, Phase 3

12/1/05  to 7/31/11  RESEARCH
TAYLOR, PETER
NAMBISAN, SHASHI
WANG, KEJIN
INSTITUTE FOR TRANSPORTATION-VPR/ED
INSTITUTE FOR TRANSPORTATION-VPR/ED
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
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$154,893 NATIONAL SCIENCE FOUNDATION

criterion Referencing and Electronic Delivery of ACS Exams

3/1/09 to 1/31/10 RESEARCH
HOLME, THOMAS
CHEMISTRY-LAS

$150,000 NATIONAL SCIENCE FOUNDATION

Creating Effective Future Faculty in Engineering

7/1/09 to 6/30/11 RESEARCH
MINA, MANI
ELECTRICAL & COMPUTER ENGINEERING-ENGR
ROVER, DIANE
ELECTRICAL & COMPUTER ENGINEERING-ENGR
SHELLEY, MACK
STATISTICS-LAS

$150,000 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Dynamical Selection of Three-Dimensional Interface Patterns in Directional Solidification

6/1/07 to 5/31/12 RESEARCH
TRIVEDI, ROHIT
MATERIALS SCIENCE & ENGINEERING-ENGR

$140,000 DEPARTMENT OF AGRICULTURE, CSREES

Iowa Sustainable Communities Project

5/15/07 to 5/14/10 EXTENSION/PUBLIC
WOODS, BARBARA
EXTENSION TO FAMILIES-EXT
MORRIS, JOHN
EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$140,000 ROCKWELL COLLINS, INC

A Virtual Reality Interface for Product/Analysis Data Visualization

8/15/08 to 8/15/10 RESEARCH
OLIVER, JAMES
MECHANICAL ENGINEERING-ENGR

$137,458 NATIONAL SCIENCE FOUNDATION

Collaborative Proposal: Biosynthesis of Alkamides-Experimental Modeling of a Modular Secondary Metabolic Pathway

8/1/09 to 7/31/10 RESEARCH
NIKOLAU, BASIL
BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS
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$132,581 UNIVERSITY OF IOWA

94386 The Science Writing Heuristic

6/1/09 to 5/31/13 RESEARCH
SHELLEY, MACK STATISTICS-LAS

$131,716 NATIONAL SCIENCE FOUNDATION

96690 DynSyst Special Topics: Connections Between Tagged Particles and Hydrodynamics in Some Interacting Particle Systems

8/1/09 to 7/31/12 RESEARCH
SETHURAMAN, SUNDER MATHEMATICS-LAS

$131,330 AUBURN UNIVERSITY

104206 Technology Specialist for the Army Youth Development Project

10/1/09 to 9/30/10 EXTENSION/PUBLIC
MORRIS, JOHN EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$128,658 IOWA DEPARTMENT OF NATURAL RESOURCES

98886 Economic Impact and Value of Preserving and Restoring Water Quality in Iowa's Lakes

7/1/09 to 12/31/10 RESEARCH
KLING, CATHERINE ECONOMICS-AES/CALS
HERRIGES, JOSEPH ECONOMICS-AES/CALS
OTTO, DANIEL ECONOMICS-AES/CALS

$123,000 LIGHTWAVE POWER, INC

104384 Solar Cells on PEN Substrates

7/15/09 to 7/14/10 RESEARCH
DALAL, VIKRAM ELECTRICAL & COMPUTER ENGINEERING-ENGR
BISWAS, RANA MICROELECTRONICS RESEARCH CENTER - IPRT-VPR/ED

$122,260 NATIONAL SCIENCE FOUNDATION

97311 RI: Small: Robot Grasping of Deformable Objects

7/15/09 to 6/30/10 RESEARCH
JIA, YAN-BIN COMPUTER SCIENCE-LAS
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### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>CAREER: Constructing Coherence: Elementary Teachers' Strategies for Using Standards-Based Mathematics Curriculum Materials</td>
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<td>Impacts of Feeding DDGS to Swine: Aerial Emissions and Potential Management Strategies</td>
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<td>IOWA DEPARTMENT OF TRANSPORTATION</td>
<td>A Feasibility Study on Embedded Micro-Electromechanical Sensors</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$99,913 NATIONAL SCIENCE FOUNDATION

**98566** NEESR Payload: Characterization of Dynamic Soil-Pile Interaction by Random Vibration Methods

8/15/09 to 7/31/11 RESEARCH
ASHLOCK, JERAMY
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$99,574 NATIONAL SCIENCE FOUNDATION

**97837** TRMS: High Throughput Functional Analysis of Soybean Defense Pathways by Virus-Induced Gene Silencing

7/18/09 to 8/31/09 RESEARCH
WHITHAM, STEVEN
PLANT PATHOLOGY-AES
BAUM, THOMAS
PLANT PATHOLOGY-AES

$98,670 MICHIGAN STATE UNIVERSITY

**98890** North Central Regional Aquaculture Center Administration Account

8/1/08 to 7/31/10 EXTENSION/PUBLIC
MORRIS, JOSEPH
NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

$98,430 DEFENSE THREAT REDUCTION AGENCY

**96978** Towards a Network Theory for Preserving Critical Capability Under Network Outages

7/13/09 to 7/12/11 RESEARCH
YING, LEI
ELECTRICAL & COMPUTER ENGINEERING-ENGR

$96,097 HARBOR-UNIVERSITY OF CALIFORNIA AT LOS ANGELES MEDICAL CENTER

**79141** Intrathecal Enzyme Therapy for Mucopolysaccharidosis I

6/1/09 to 5/31/10 RESEARCH
ELLINWOOD, NORMAN
ANIMAL SCIENCE
RIEDESEL, ELIZABETH
VETERINARY CLINICAL SCIENCES-VET

$88,000 IOWA DEPARTMENT OF TRANSPORTATION

**99613** Intelligent Compaction and Research Implementation Workplan, Phase 1

5/15/09 to 12/31/09 RESEARCH
WHITE, DAVID
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
NAMBISAN, SHASHI
INSTITUTE FOR TRANSPORTATION-VPR/ED
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

#### 98818
**IOWA STATE UNIVERSITY RESEARCH FOUNDATION**

$87,419  
Office of Intellectual Property and Technology Transfer Support  
6/10/09 to 12/31/09  
QUISENBERRY, SHARRON  
VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED

#### 95804
**NATIONAL SCIENCE FOUNDATION**

$85,000  
CAREER: On Mutualism of Modularity and Concurrency Goals  
7/1/09 to 6/30/10  
RAJAN, HRIDESH  
COMPUTER SCIENCE-LAS

#### 77803
**NATIONAL SCIENCE FOUNDATION**

$82,301  
CAREER: Composition Approaches for the Analysis of Complex Systems  
8/1/06 to 7/31/10  
MINER, ANDREW  
COMPUTER SCIENCE

#### 98931
**IOWA DEPARTMENT OF PUBLIC HEALTH**

$82,000  
1-800 Bets Off Helpline  
7/1/09 to 6/30/10  
GLENN, SHERRY  
EXTENSION AREA - CENTRAL-EXT  
VANGINKEL, MARGARET  
EXTENSION TO FAMILIES-EXT

#### 99507
**GENERAL MOTORS**

$74,993  
CFD Analysis of Torque Converter Hydrodynamic and Converter Clutch Interaction at High Speed Ratio-Year 2  
5/15/09 to 5/14/10  
SHIH, TOM  
AEROSPACE ENGINEERING-ENGR

#### 80836
**TEXAS A&M UNIVERSITY**

$62,872  
The Science of Foods for Health: A Multi-Institutional, Multi-Disciplinary Effort for Undergraduate Education  
9/1/06 to 8/31/10  
BIRT, DIANE  
HENDRICH, SUZANNE  
REDDY, MANJU  
PRUSA, KENNETH  
FOOD SCIENCE & HUMAN NUTRITION
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$62,872  TEXAS A&M UNIVERSITY
The Science of Foods for Health: A Multi-Institutional, Multi-Disciplinary Effort for Undergraduate Education

9/1/06 to 8/31/10 INSTRUCTION/TRAINING

WANG, TONG  FOOD SCIENCE & HUMAN NUTRITION

$62,166  POET TM RESEARCH, INC
2009 Emmetsburg Soil Study: Evaluation of Corn Cob and Stover Removal Levels on Crop Production, Soil Quality and Nutrient Levels

7/1/09 to 6/30/10 RESEARCH

BIRRELL, STUART  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

ANEX, ROBERT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$60,000  NATIONAL SCIENCE FOUNDATION
Collaborative Proposal: Center for Information Protection

7/7/09 to 8/31/10 RESEARCH

JACOBSON, DOUG  ELECTRICAL & COMPUTER ENGINEERING

$60,000  NATIONAL SCIENCE FOUNDATION
Collaborative Research: CSR-PSCE, TM: Effective Resource Sharing and Coordination Inside Multicore Processors for High Throughput Computing

9/1/08 to 8/31/10 RESEARCH

ZHANG, ZHAO  ELECTRICAL & COMPUTER ENGINEERING-ENGR

$59,780  AUBURN UNIVERSITY
Development of the SNP Platform and Its Application for Genetic Mapping in Catfish

1/1/10 to 12/31/11 RESEARCH

HU, ZHILIANG  ANIMAL SCIENCE-AES

$58,480  STATE OF COLORADO, DIVISION OF WILDLIFE
Factors Influencing Rangewide Survival of Mountain Plover Chicks

7/7/08 to 7/7/10 RESEARCH

DINSMORE, STEPHEN  NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

July 01 - 31, 2009

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$57,684 UNIVERSITY OF MARYLAND

Iron-Based Magnetostrictive Alloys: New Structural Materials for Revolutionary Engineered Systems

78949

10/1/07 to 12/31/09 RESEARCH

LOGRASSO, THOMAS

MCQUEENEN, ROBERT

MATERIALS SCIENCE & ENGINEERING

PHYSICS & ASTRONOMY

$56,000 AIR FORCE RESEARCH LABORATORY

Adaptive Guidance for Responsive Launch and Operations

97678

6/29/09 to 2/10/11 RESEARCH

LU, PING

AEROSPACE ENGINEERING-ENGR

$56,000 PRATT AND WHITNEY

Phased Array Billet Inspection

98615

1/1/09 to 6/30/09 RESEARCH

BRASCH, LISA

GRAY, TIMOTHY

ROBERTS, RONALD

CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED

CENTER FOR NONDESTRUCTIVE EVALUATION - IPRT-VPR/ED

$54,920 DEERE AND COMPANY

Integrated Robust Optimal Design for Quality Improvement and Cost Reduction

98511

1/1/08 to 12/31/09 RESEARCH

KELKAR, ATUL

MECHANICAL ENGINEERING-ENGR

$53,098 UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

Stress, Financial Management, and Childhood Overweight

94079

2/1/09 to 1/14/12 RESEARCH

NUSSE, SARAH

GARASKY, STEVEN

STATISTICS-LAS

HUMAN DEVELOPMENT & FAMILY STUDIES-HS

$52,951 BOEING COMPANY

Virtual Reality Implementation Study

97822

6/17/09 to 11/9/09 RESEARCH

OLIVER, JAMES

MECHANICAL ENGINEERING-ENGR

404-65-01

421-20-40

400-65-57

400-65-18

410-17-05

400-25-17
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

**July 01 - 31, 2009**

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<td>NATIONAL INSTITUTES OF HEALTH</td>
<td>Structural and Biochemical Basis for Regulation of Ebola VP35 Function by dsRNA</td>
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<td>104115</td>
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<td>93304</td>
<td>$50,000</td>
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<td>Collaborative Research: CT-M: Hardware Containers for Software Components-Detection and Recovery at the Hardware/Software Interface</td>
<td>ZAMBRENO, JOSEPH</td>
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<td>IOWA DEPARTMENT OF TRANSPORTATION</td>
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**Total** | $314,826

**Periods:**
- 6/17/09 to 11/9/09
- 9/1/09 to 8/31/10
- 9/1/09 to 6/30/11
- 1/1/10 to 12/31/10
- 7/1/09 to 6/30/10
- 6/8/09 to 3/12/10
| GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT |
|-----------------------------------------------|---|
| $50,000 IOWA DEPARTMENT OF TRANSPORTATION |  
July 01 - 31, 2009 |  
**99699** Electronic Construction Collaboration System |  
7/1/09 to 6/30/10 RESEARCH |  
JAHREN, CHARLES CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR |  
NAMBIŠAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED |  
$49,980 NATIONAL PORK BOARD |  
5/1/09 to 5/1/10 RESEARCH |  
HURD, HOWARD VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |  
BAKER, RODNEY VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET |  
$48,547 NATIONAL INSTITUTES OF HEALTH |  
3/1/09 to 2/28/10 RESEARCH |  
KOHUT, MARIAN KINESIOLOGY |  
WANNEMUEHLER, MICHAEL VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE |  
BUSS, JANICE BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY |  
YOO N, KYOUNG-JIN VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE |  
CUNNICK, JOAN ANIMAL SCIENCE |  
NETTLETON, DANIEL STATISTICS |  
$47,850 NATIONAL SCIENCE FOUNDATION |  
7/1/09 to 6/30/10 RESEARCH |  
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS |  
$47,764 NATIONAL SCIENCE FOUNDATION |  
7/8/09 to 3/31/11 RESEARCH |  
ASBJORNSEN, HEIDI NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS |
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

### $43,661

**DEPARTMENT OF AGRICULTURE, CSREES**

Animal Health and Disease Research Program  

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### $43,046

**IOWA ATTORNEY GENERALS OFFICE**

Effect of Temperature and Humidity on Ultraviolet Inactivation of Airborne PRRS Virus  

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### $43,006

**IOWA DEPARTMENT OF TRANSPORTATION**

Work Plan for the Traffic Safety Engineer FY2010  

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### $41,957

**DEPARTMENT OF AGRICULTURE, FS**

Ecological Assessments of Bioenergy Feedstocks from Plantations and Forests in the Midwest  

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### $41,445

**JET PROPULSION LABORATORY**

Mass Loss Classical Cepheids and Their Progenitors: Spatially Resolved Spectra of Extended Emission. PID 50346  

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### $40,600

**METROPOLITAN EDUCATIONAL COOPERATIVE SERVICE UNIT**

Technology Integration and Leadership Training Metro ECSU  

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July 01 - 31, 2009

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$40,000  IOWA DEPARTMENT OF PUBLIC HEALTH  478-40-31
104121  Monitoring Mosquitoes and Vectorborne Disease
7/15/09 to 6/30/10  RESEARCH
BARTHOLOMAY, LYRIC  ENTOMOLOGY-AES/CALS

$39,772  DEVELOPMENT ALTERNATIVES, INC  404-40-65
99367  APEC Workshop Series on Use and Implementation of KODEX LLP Annex 3 for Food Safety Assessment
6/1/09 to 9/30/09  RESEARCH
CORTES, JOSEPH  SEED SCIENCE CENTER-AES/CALS
MISRA, MANJIT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
HARRIES, ADELAIDA  SEED SCIENCE CENTER-AES/CALS

$37,837  KANSAS STATE UNIVERSITY  410-28-06
98032  Integrating Schools, Community, and Family to Effect Sedentary Behavior, Fruit and Vegetable Consumption and Physical Activity
5/1/09 to 6/30/11  RESEARCH
WELK, GREGORY  KINESIOLOGY-HS

$35,714  IOWA DEPARTMENT OF TRANSPORTATION  474-21-08
98633  Safety Analysis, Visualization, and Exploration Resource
10/1/07 to 5/31/10  RESEARCH
MITRA, SIMANTA  COMPUTER SCIENCE-LAS

$34,340  NATIONAL SCIENCE FOUNDATION  420-40-43
99466  Further Characterization of Maize Mutations for MaizeGDB
6/22/09 to 8/31/10  RESEARCH
LAWRENCE, CAROLYN  GENETICS, DEVELOPMENT & CELL BIOLOGY-AES/CALS
SPALDING, MARTIN  GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

$33,988  NATIONAL INSTITUTES OF HEALTH  430-23-38
84859  Summer Research Training of Veterinary Medical Students
6/1/09 to 5/31/10  INSTRUCTION/TRAINING
PHILLIPS, GREGORY  VETERINARY MEDICINE ADMINISTRATION
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$33,800 BROOKHAVEN NATIONAL LABORATORY

92398 Project Reporting and Project Management
4/28/08 to 6/17/10 RESEARCH
OGILVIE, CRAIG PHYSICS & ASTRONOMY-LAS

$33,367 IOWA DEPARTMENT OF EDUCATION

93641 Team Nutrition Training Project 2008
9/30/08 to 9/30/10 EXTENSION/PUBLIC
STROHBEHN, CATHERINE APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS
CO-PI LITCHFIELD, RUTH FOOD SCIENCE & HUMAN NUTRITION-HS

$32,500 CORPORATION FOR PUBLIC BROADCASTING

99298 Rural Listener Access Incentive Fund Bonus
10/1/08 to 9/30/10 EXTENSION/PUBLIC
WIRTH, DONALD WOI RADIO-VPBF

$32,407 NATIONAL SCIENCE FOUNDATION

99302 Eager Collaborative Research: Nanocomposite Copper Tooling for Faster Cycle and Improved Precision in Plastic Molding
7/15/09 to 6/30/10 RESEARCH
MOLIAN, PALANIAPPA MECHANICAL ENGINEERING-ENGR

$30,000 ADVANCED TECHNOLOGY INSTITUTE

54112 Determination of Transformation Diagrams for the Superaustenitic Stainless Steel Casting Alloys
1/1/04 to 6/30/10 RESEARCH
CHUMBLEY, LEONARD MATERIALS SCIENCE & ENGINEERING
CO-PI GLEESON, BRIAN MATERIALS SCIENCE & ENGINEERING

$30,000 DEPARTMENT OF AGRICULTURE, FS

84880 Assessing Indicator Sensitivity for Monitoring the Effects of Fire and Species Reintroductions on Soils and Plant Communities During Intensive Restoration of Oak Savannas and Woodlands in Central Iowa
1/1/07 to 12/31/09 RESEARCH
ASBJORNSEN, HEIDI NATURAL RESOURCE ECOLOGY & MANAGEMENT
July 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$29,663 NATIONAL INSTITUTES OF HEALTH

69219 Structure and Function of Schistosome Neuropeptide F

3/1/09 to 2/28/10 RESEARCH
DAY, TIMOTHY BIOMEDICAL SCIENCES

$29,592 IOWA DEPARTMENT OF HUMAN SERVICES

104011 Targeted Case Management, BCM-008-007

7/1/08 to 6/30/09 EXTENSION/PUBLIC
LEMPERS, JACOBUS HUMAN DEVELOPMENT & FAMILY STUDIES-HS

$29,268 DEPARTMENT OF AGRICULTURE, ARS

99420 Developing a Regional Risk Assessment Model from Invasive Woody Plants in the North Central United States

8/23/07 to 7/31/10 RESEARCH
THOMPSON, JANETTE NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS
DIXON, PHILIP STATISTICS-LAS
ILES, JEFFERY HORTICULTURE-AES/CALS

$27,000 UNIVERSITY OF IOWA

97660 Sustainability of Crop Yields in Iowa under Expansion of Wind Farms

7/1/09 to 6/30/10 RESEARCH
SEGAL, MORDECAY AGRONOMY-CALS
TAKLE, GENE AGRONOMY-CALS

$25,513 IOWA DEPARTMENT OF TRANSPORTATION

99680 Work Plan for the Pavement Systems Research Engineer FY2010

7/1/09 to 5/15/10 RESEARCH
NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED
CEYLAN, HALIL CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
CACKLER, THOMAS INSTITUTE FOR TRANSPORTATION-VPR/ED

$25,000 IOWA PORK PRODUCERS ASSOCIATION

98551 Understanding the Effect of Concurrent PCV2a or PCV2b Infection on the Evolution of the PRRSV During Serial Passage in Pigs

8/1/09 to 8/1/10 RESEARCH
OPRIESSNIG, TANJA VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

July 01 - 31, 2009

$25,000 IOWA PORK PRODUCERS ASSOCIATION

98551 Understanding the Effect of Concurrent PCV2a or PCV2b Infection on the Evolution of the PRRSV During Serial Passage in Pigs

8/1/09 to 8/1/10 RESEARCH

CO-PI GAUGER, PHILLIP VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$25,000 IOWA PORK PRODUCERS ASSOCIATION

98552 Objective Assessment Tools and Pain Management for Lame Sows

7/1/09 to 7/1/10 RESEARCH

CO-PI KARRIKER, LOCKE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI MILLMAN, SUZANNE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI STALDER, KENNETH EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

CO-PI BUTTERS-JOHNSON, ANNA ANIMAL SCIENCE-AES/CALS

$25,000 IOWA PORK PRODUCERS ASSOCIATION

98577 Investigating the Role of PB1-F2 in the Pathogenicity of Circulating Strains of SIV

7/1/09 to 7/1/10 RESEARCH

MILLER, CATHY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$25,000 SCHOOL ADMINISTRATORS OF IOWA

104158 Technology Integration and Leadership Training SAI

7/15/09 to 6/30/10 INSTRUCTION/TRAINING

MCLEOD, SCOTT EDUCATIONAL LEADERSHIP & POLICY STUDIES-HS

$25,000 IOWA STATE UNIVERSITY RESEARCH FOUNDATION

104191 Advanced Capability for Titanium Melting

7/1/09 to 5/31/10 EQUIPMENT

ANDERSON, IVER MATERIALS SCIENCE & ENGINEERING-ENGR

$24,300 KANSAS STATE UNIVERSITY

97739 Assessment of PRRS Biosecurity in the Field: Application of the American Association of Swine Veterinarian's PRRS Risk Assessment for the Breeding Herd

5/1/09 to 7/31/09 RESEARCH

HOLTKAMP, DERALD VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI RAMIREZ, ALEJANDRO VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

CO-PI OCONNOR, ANNETTE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$24,300 KANSAS STATE UNIVERSITY
Assessment of PRRS Biosecurity in the Field: Application of the American Association of Swine Veterinarian's PRRS Risk Assessment for the Breeding Herd
5/1/09 to 7/31/09 RESEARCH

KANSAS STATE UNIVERSITY
Assessment of PRRS Biosecurity in the Field: Application of the American Association of Swine Veterinarian's PRRS Risk Assessment for the Breeding Herd
5/1/09 to 7/31/09 RESEARCH

$24,000 IOWA PORK PRODUCERS ASSOCIATION
Genetic Assessment of VDL SIV Isolate Pool for Evidence of the Swine Flu Strain Reported to be Infecting People and Development of a High-Throughput Differential Test for the Novel Strain
7/1/09 to 3/1/10 RESEARCH

$23,999 KANSAS STATE UNIVERSITY
PRRS CAP Graduate and Undergraduate Scholar Program Application-Iowa State University
8/1/08 to 7/31/09 FELLOWSHIP

$23,855 GREAT PLAINS MANUFACTURING, INC
ISOBUS Sensing of Tracked Tractor Steering Angle
7/1/09 to 12/31/09 RESEARCH

$22,808 IOWA PORK PRODUCERS ASSOCIATION
Genetic Improvement of Farrowing Rate and Non-Productive Days in Swine by Selection for Litters Per Sow Per Year
7/1/09 to 10/1/10 RESEARCH

$22,285 DEPARTMENT OF AGRICULTURE, CSREES
Swine Production Manager Certification and Associates Degree Delivered via Distance Education
7/1/09 to 6/30/11 EXTENSION/PUBLIC
### GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

#### July 01 - 31, 2009

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

- **$21,000 UNIVERSITY OF NEBRASKA**
  - Improving Management of Soybean Cyst Nematode Through Extension Demonstration and Outreach
  - 3/1/09 to 2/28/10
  - RESEARCH
  - TYLKA, GREGORY
  - PLANT PATHOLOGY-AES/CALS

- **$20,000 VETERANS ADMINISTRATION CENTER - IOWA CITY**
  - Growth Factor Treatment of Visual Loss in Compressive Optic Nerve Injury
  - 6/30/09 to 9/30/09
  - RESEARCH
  - GROZDANIC, SINISA
  - VETERINARY CLINICAL SCIENCES
  - SAKAGUCHI, DONALD
  - GENETICS, DEVELOPMENT & CELL BIOLOGY

- **$20,000 DEPARTMENT OF AGRICULTURE, FS**
  - Impacts of Mixed Annual-Perennial Watershed Configurations on Water Quality in the Midwestern Corn Belt Region of Central Iowa
  - 7/8/09 to 12/31/11
  - RESEARCH
  - HELMERS, MATTHEW
  - AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
  - ASBJORSEN, HEIDI
  - NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

- **$19,998 UNIVERSITY OF CALIFORNIA-DAVIS**
  - Livelihood Resilience for Food and Income Security Among Formerly Displaced People in Lira District, Northern Uganda
  - 9/28/09 to 9/27/10
  - FELLOWSHIP
  - MAZUR, ROBERT
  - SOCIOLOGY-LAS

- **$19,848 METABOLIC TECHNOLOGIES, INC**
  - Metabolic Engineering of Moritella Marinus to Produce DHA: Transcriptome Sequencing
  - 6/15/09 to 5/31/10
  - RESEARCH
  - JARBOE, LAURA
  - CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
  - KRENNRICH, JULIENNE
  - INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VP

- **$19,068 THE COMMUNITY FOUNDATION OF GREATER DUBUQUE**
  - Iowa Food and Fitness Initiative
  - 3/1/09 to 10/31/09
  - RESEARCH
  - FLORA, CORNELIA
  - SOCIOLOGY-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$16,000 NATIONAL SCIENCE FOUNDATION
420-60-28

98348 Collaborative Research: NEDG: Network Scheduling and Routing Under Partial Information Structure
6/29/09 to 8/31/10 RESEARCH
YING, LEI ELECTRICAL & COMPUTER ENGINEERING-ENGR

$16,000 NATIONAL SCIENCE FOUNDATION
420-71-03

6/23/09 to 8/31/10 RESEARCH
RAJAN, HRIDESH COMPUTER SCIENCE-LAS

$16,000 NATIONAL SCIENCE FOUNDATION
420-17-61

99136 REU Supplement: Collaborative Research: Learning Classifiers from Autonomous, Semantically Heterogeneous, Distributed Data
7/2/09 to 7/31/10 RESEARCH
HONAVAR, VASANT COMPUTER SCIENCE-LAS

$16,000 NATIONAL SCIENCE FOUNDATION
420-21-06

104108 REU Supplement for the Project CAREER: On Mutualism of Modularity and Concurrency Goals
7/22/09 to 6/30/10 RESEARCH
RAJAN, HRIDESH COMPUTER SCIENCE-LAS

$15,000 NATIONAL SCIENCE FOUNDATION
420-40-03

98755 Xanthomonas Genomics Conference 2009
7/15/09 to 6/30/10 MISCELLANEOUS
BOGDANOYE, ADAM PLANT PATHOLOGY-AES/CALS

$15,000 HUMANITIES IOWA
404-21-83

99251 Eco-Voices: A Reading Series on the Environmental Imagination
8/1/09 to 8/31/10 INSTRUCTION/TRAINING
MARQUART, DEBRA ENGLISH-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$15,000  MID-IOWA HEALTH FOUNDATION
99737  Polk County Healthy Schools Centers of Excellence

6/1/09  to  6/1/10  RESEARCH
WELK, GREGORY  KINESIOLOGY-HS
IHMELS, MICHELLE  KINESIOLOGY-HS

$14,579  IOWA DEPARTMENT OF NATURAL RESOURCES
99344  Increasing Awareness of Integrated Pest Management Among Conservation Specialists and Educators

6/29/09  to  9/30/10  EXTENSION/PUBLIC
MUELLER, DAREN  PLANT PATHOLOGY-EXT
ARBUCKLE, J.  SOCIOLOGY-AES/CALS
POPE, RICHARD  PLANT PATHOLOGY-EXT

$14,000  IOWA DEPARTMENT OF HUMAN SERVICES
99689  After Hours Phone Services for Department of Human Services Targeted Case

7/1/09  to  6/30/10  EXTENSION/PUBLIC
GLENN, SHERRY  EXTENSION TO FAMILIES-EXT
VANGINKEL, MARGARET  EXTENSION TO FAMILIES-EXT

$13,701  IOWA DEPARTMENT OF NATURAL RESOURCES
99190  Benchmarks of Biological Integrity for Lake Restoration Success: Fish, Invertebrate, and Plankton Communities in Iowa Lakes

6/25/09  to  12/31/12  RESEARCH
QUIST, MICHAEL  NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS
FISCHER, JESSE  NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

$12,400  DOW AGROSCIENCES
98810  Corn Pests Research Project

6/19/09  to  6/18/10  RESEARCH
GASSMANN, AARON  ENTOMOLOGY-AES/CALS
WEBER, PATRICK  ENTOMOLOGY-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

July 01 - 31, 2009

$12,239  IOWA PORK PRODUCERS ASSOCIATION
The Influence of Small Versus Large Pens on the Welfare of the Grow-Finisher Pig
7/1/09  to  7/1/10  RESEARCH
BUTTERS-JOHNSON, ANNA  ANIMAL SCIENCE-AES/CALS
STALDER, KENNETH  ANIMAL SCIENCE-AES/CALS
98641

$12,090  STATE LIBRARY OF IOWA
Interlibrary Loan Reimbursement
7/1/09  to  6/30/10  EXTENSION/PUBLIC
MADISON, OLIVIA  PARKS LIBRARY-PROV
99704

$12,000  NATIONAL SCIENCE FOUNDATION
Change Detection in Nonlinear Systems and Applications in Shape Analysis
6/25/09  to  7/31/10  RESEARCH
VASWANI, NAMRATA  ELECTRICAL & COMPUTER ENGINEERING-ENGR
98620

$12,000  NATIONAL SCIENCE FOUNDATION
Microscale Reactor CFD Model Validation Using Direct Numerical Simulations, High-Speed MicroPIV, and Reactive Laser-Induced Fluorescence
7/29/09  to  8/31/10  INSTRUCTION/TRAINING
FOX, RODNEY  CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
OLSEN, MICHAEL  MECHANICAL ENGINEERING-ENGR
98823

$12,000  NATIONAL SCIENCE FOUNDATION
NETS-NBD: Survivable Multipoint Traffic Grooming in Optical Networks
7/9/09  to  7/31/10  RESEARCH
KAMAL, AHMED  ELECTRICAL & COMPUTER ENGINEERING-ENGR
SOMANI, ARUN  ELECTRICAL & COMPUTER ENGINEERING-ENGR
99043

$12,000  NATIONAL SCIENCE FOUNDATION
NETS-NBD: Network Coding-Based Protection
7/14/09  to  7/31/10  RESEARCH
KAMAL, AHMED  ELECTRICAL & COMPUTER ENGINEERING-ENGR
RAMAMOORTHY, ADITYA  ELECTRICAL & COMPUTER ENGINEERING-ENGR
99044
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$12,000 NATIONAL SCIENCE FOUNDATION

99094 NETS-NOSS: Secure and Resilient Network Coding and Cooperative Relaying Schemes for Wireless Sensor Networks
7/9/09 to 8/31/10 RESEARCH
GUAN, YONG ELECTRICAL & COMPUTER ENGINEERING-ENGR

$12,000 NATIONAL SCIENCE FOUNDATION

99115 Collaborative Research: CSR-PSCE, SM: Memory Thermal Management for Multi-Core Systems
7/17/09 to 8/31/11 RESEARCH
ZHANG, ZHAO ELECTRICAL & COMPUTER ENGINEERING-ENGR

$12,000 NATIONAL SCIENCE FOUNDATION

99126 Collaborative Research: CSR-PSCE, TM: Effective Resource Sharing and Coordination Inside Multicore Processors for High Throughput Computing
7/17/09 to 8/31/09 RESEARCH
ZHANG, ZHAO ELECTRICAL & COMPUTER ENGINEERING-ENGR

$12,000 NATIONAL SCIENCE FOUNDATION

99295 Collaborative Research: Constraint-Based Compliant Mechanism Design Using Virtual Reality as a Design Interface
6/26/09 to 7/31/10 RESEARCH
VANCE, JUDY MECHANICAL ENGINEERING-ENGR
OLIVER, JAMES MECHANICAL ENGINEERING-ENGR

$11,491 NATIONAL SCIENCE FOUNDATION

98374 Collaborative Research: Potential Recruits in Engineering: A Longitudinal Study of Diverse Academically-Able Young Women's Views of Engineering as a Career
7/25/09 to 7/31/10 RESEARCH
BRUNING, MONICA ENGINEERING ACADEMIC & STUDENT AFFAIRS-ENGR

$11,000 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

97397 National Aeronautics and Space Administration Exploration Systems Mission Directorate 2009 Higher Education Project Proposal
4/1/05 to 3/31/10 MISCELLANEOUS
BYRD, WILLIAM AEROSPACE ENGINEERING-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

**July 01 - 31, 2009**

$10,500 ANKENY COMMUNITY SCHOOL DISTRICT  
Technology Integration and Leadership Training Ankeny Parkview Middle School  
7/1/09 to 6/30/10 INSTRUCTION/TRAINING  
MCLEOD, SCOTT  
EDUCATIONAL LEADERSHIP & POLICY STUDIES-HS  

$10,342 NATIONAL SCIENCE FOUNDATION  
Symposium on Metabolism, Life History and Aging to be Held at the SICB 2010 Conference January 3-10, Seattle, WA  
9/1/09 to 8/31/10 MISCELLANEOUS  
BRONIKOWSKI, ANNE  
ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS  

$10,080 PHD TECHNOLOGIES, LLC  
Use of Novel Ingredients for Improved Functional and Quality Characteristics of Processed Meat Products  
7/6/09 to 7/31/10 RESEARCH  
SEBRANEK, JOSEPH  
ANIMAL SCIENCE-AES/CALS  
MUMM, LYNNE  
INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VP  

$10,000 ADVANCED TECHNOLOGY INSTITUTE  
Instrumentation and Control for Energy Efficiency and Productivity  
3/21/05 to 6/30/10 RESEARCH  
PETERS, FRANK  
INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING  
FRANK, MATTHEW  
INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING  

$10,000 SPECTRAL SCIENCES, INC  
Predicting Kinetic Rate Constants for Condensed Phases  
7/1/09 to 4/15/10 RESEARCH  
WINDUS, THERESA  
CHEMISTRY-LAS  

$10,000 IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP  
Enology and Viticulture Program Amendment #4  
7/1/08 to 12/31/08 EXTENSION/PUBLIC  
MILLER, GERALD  
EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT  
DHARMADHIKARI, MURLIDHAR  
FOOD SCIENCE & HUMAN NUTRITION-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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$9,900 DEPARTMENT OF AGRICULTURE, APHIS VS EMERGENCY PROGRAMS

98963 Organization of a Meeting to Introduce the New Initial Accreditation Program for Veterinary Students and Veterinarians Who Have Never Been Accredited

4/1/09 to 3/31/10 EXTENSION/PUBLIC

ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$9,611 UNIVERSITY OF ILLINOIS

99520 Development of a North Central Integrated Pest Management Pest Information Platform for Extension and Education Web Site

7/1/09 to 3/14/10 EXTENSION/PUBLIC

MUELLER, DAREN PLANT PATHOLOGY-AES/CALS

$7,500 SOUTH DAKOTA STATE UNIVERSITY

87931 Sustainable Cropping Systems for Harvesting Corn Stover for Biomass

1/1/07 to 6/30/12 RESEARCH

MOORE, KENNETH LAMKEY, KENDALL AGRONOMY

CO-PI AGRONOMY

$7,500 DOW AGROSCIENCES

98950 2009 Soybean Aphid Management Study

4/1/09 to 4/1/10 RESEARCH

ONEAL, MATTHEW ENTOMOLOGY-AES/CALS

$6,997 DSM NUTRITIONAL PRODUCTS, INC

99142 Evaluation of a Swine Feed Additive on Manure via Biochemical Methane Potentials

6/15/09 to 9/15/09 RESEARCH

BURNS, ROBERT MOODY, LARA AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

CO-PI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$6,500 MONSANTO

104012 Dicamba Volatilization Studies

5/1/09 to 10/30/09 RESEARCH

HARTZLER, ROBERT AGRONOMY-AES/CALS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$5,000  IOWA ACADEMY OF SCIENCE
97923  The Evolution of Gene Regulation Involved in Metabolic Stress and Aging

7/1/09  to  6/30/10  RESEARCH
BRONIKOWSKI, ANNE  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS
SCHWARTZ, TONIA  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$5,000  IOWA ACADEMY OF SCIENCE
97944  Enhancing the Healthfulness of Milk from Jersey Cattle

7/1/09  to  6/30/10  RESEARCH
BEITZ, DONALD  ANIMAL SCIENCE-CALS

$5,000  IOWA ACADEMY OF SCIENCE
97948  Genetic Diversity and Connectivity of White-Tailed Jackrabbit Populations in Iowa, with Notes on Seasonal Home Ranges

7/1/09  to  6/30/10  RESEARCH
FAIRBANKS, WENDELYN  NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS
BLANCHONG, JULIE  NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS

$5,000  UNIVERSITY OF MINNESOTA
99480  Non-Thermal Processing of Milk Products

5/15/09  to  8/15/09  RESEARCH
BOYLSTON, TERRI  FOOD SCIENCE & HUMAN NUTRITION-HS

$5,000  MINNESOTA DEPARTMENT OF TRANSPORTATION
99593  Preliminary Assessment of Horizontal Curve Identification

6/10/09  to  7/31/09  RESEARCH
HANS, ZACHARY  INSTITUTE FOR TRANSPORTATION-VPR/ED
NAMBISAN, SHASHI  INSTITUTE FOR TRANSPORTATION-VPR/ED

$5,000  INTEGRATED PEST MANAGEMENT INSTITUTE OF NORTH AMERICA, INC
99832  Integrated Pest Management in All United States Schools by 2015: South Dakota School Integrated Pest Management Demonstration

3/1/09  to  9/30/10  EXTENSION/PUBLIC
SHOUR, MARK  ENTOMOLOGY-EXT
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<th>Date End</th>
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<td>11/30/09</td>
<td>EXTENSION 4-H YOUTH DEVELOPMENT-EXT</td>
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<td>5/31/09</td>
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<td>RESEARCH</td>
<td>Practices to Extend the Availability of Fresh Iowa-Grown Raspberries and Blackberries</td>
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## Funding Details

- **97901**: RESEARCH, ANTHROPOLOGY-LAS
- **96597**: EXTENSION/PUBLIC, EXTENSION 4-H YOUTH DEVELOPMENT-EXT
- **99647**: AGRONOMY-AES/CALS
- **99515**: EXTENSION TO FAMILIES-EXT
- **99823**: ENTOMOLOGY-EXT
- **98220**: ISU RESEARCH AND DEMONSTRATION FARMS-AES/CALS

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**Note:** The dates provided are for the period of July 01 - 31, 2009.
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,936  IOWA DEPARTMENT OF ECONOMIC DEVELOPMENT  478-25-07

98753  IPRT Industry After-Hours

4/10/09 to 6/7/09  EXTENSION/PUBLIC
KRAUS, GEORGE  CHEMISTRY-LAS
CO-PI JOINER, STACY  INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY ADMINISTRATION-VPR/ED

$3,900  IOWA ACADEMY OF SCIENCE  475-40-44

97910  Can Maternal Nest-Site Choice Compensate for the Effects of Global Climate Change on Reptiles with Temperature-Dependent Sex Determination? A Common Garden Experiment Using a Model Species
7/1/09 to 6/30/10  RESEARCH
JANZEN, FREDRIC  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-CALS

$3,750  UNIVERSITY OF NORTHERN IOWA  400-02-16

67079  Iowa Space Grant Consortium Match

6/30/09 to 12/31/99  RESEARCH
BYRD, WILLIAM  AEROSPACE ENGINEERING

$3,750  UNIVERSITY OF IOWA  400-02-16

70862  Iowa Space Grant Consortium Match

6/23/09 to 12/31/99  RESEARCH
BYRD, WILLIAM  IOWA SPACE GRANT CONSORTIUM

$3,170  ADAIR COUNTY EXTENSION  400-33-64

96596  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08 to 8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$3,133  SYNGENTA LAWN AND GOLF  400-43-99

99349  Turfgrass Field Trials

4/30/09 to 12/31/09  RESEARCH
CHRISTIANS, NICK  HORTICULTURE-AES/CALS
July 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,125  LUTHERAN SERVICES IN IOWA

97662  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08  to  8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$3,000  DOW AGROSCIENCES

104214  2009 Soybean Aphid Insecticide Trial

4/30/09  to  4/30/10  RESEARCH
ONEAL, MATTHEW  ENTOMOLOGY-AES/CALS

$2,620  IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

98279  Outreach and On-Farm Training for Post-Harvest Handling

5/31/09  to  5/31/10  EXTENSION/PUBLIC
HANSEN, RAYMOND  VALUE ADDED AGRICULTURE-EXT
SMITH, MARGARET  VALUE ADDED AGRICULTURE-EXT
ROBERTSON, MALCOLM  LEOPOLD CENTER-AES/CALS

$2,500  HUMANITIES IOWA

99171  From Slide Rules to Computing in Iowa: Cultural and Community Impact of Information Computing, Past, Present, and Future

7/14/09  to  11/30/10  EXTENSION/PUBLIC
PASSONNEAU, SARAH  PARKS LIBRARY-PROV
BIX, AMY  HISTORY-LAS

$2,500  IOWA DEPARTMENT OF PUBLIC HEALTH

104366  Community Coaching for Iowa Department of Public Health

4/1/09  to  6/30/09  EXTENSION/PUBLIC
EMERY, MARY  SOCIOLGY-EXT

$2,357  IOWA COMMUNITY EDUCATION ASSOCIATION

104020  Support for the Iowa Community Education Association

7/1/09  to  12/31/09  EXTENSION/PUBLIC
TALLMAN, KELI  EXTENSION 4-H YOUTH DEVELOPMENT-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$2,350 NORTH CAROLINA STATE UNIVERSITY
93280 Iowa State University Component IPM Pipe 2008
1/1/08 to 10/31/09 RESEARCH
YANG, XIAO PLANT PATHOLOGY-CALS

$1,700 IOWA DEPARTMENT OF PUBLIC HEALTH
99829 I-Smile Website Maintenance
7/1/09 to 6/30/10 EXTENSION/PUBLIC
GLENN, SHERRY EXTENSION TO FAMILIES-EXT
CO-PI VANGINKEL, MARGARET EXTENSION TO FAMILIES-EXT

$1,563 COMMUNITY CORRECTIONS IMPROVEMENT ASSOCIATION
96586 Local Support for Iowa AmeriCorps State of Promise Program
9/1/08 to 8/31/09 EXTENSION/PUBLIC
BROSHAR, DONNIE EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$1,563 MAHASKA COMMUNITY RESEARCH FOUNDATION
96590 Local Support for Iowa AmeriCorps State of Promise Program
9/1/08 to 8/31/09 EXTENSION/PUBLIC
BROSHAR, DONNIE EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$1,563 WAYNE COMMUNITY SCHOOL DISTRICT
97052 Local Support for Iowa AmeriCorps State of Promise Program
9/1/08 to 8/31/09 EXTENSION/PUBLIC
BROSHAR, DONNIE EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$1,562 YOUTH AND SHELTER SERVICES
96745 Local Support for Iowa AmeriCorps State of Promise Program
9/1/08 to 8/31/09 EXTENSION/PUBLIC
BROSHAR, DONNIE EXTENSION 4-H YOUTH DEVELOPMENT-EXT
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,504  IOWA DEPARTMENT OF NATURAL RESOURCES  

98674  Phase 1 Archaeological Survey  

5/1/09 to 7/1/10  EXTENSION/PUBLIC  

HILL, MATTHEW  

ANTHROPOLOGY-LAS  

$1,500  DEPARTMENT OF TRANSPORTATION, FHWA  

98997  Dwight David Eisenhower Transportation Fellowship Program  

9/1/09 to 9/1/10  FELLOWSHIP  

GKRITZA, KONSTANTINA  

CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR  

NAMBISAN, SHASHI  

INSTITUTE FOR TRANSPORTATION-VPR/ED  

$1,500  DOW AGROSCIENCES  

99119  Corn Pests Research Project  

5/1/09 to 5/1/11  RESEARCH  

GASSMANN, AARON  

ENTOMOLOGY-AES/CALS  

WEBER, PATRICK  

ENTOMOLOGY-AES/CALS  

$1,500  IOWA COMMISSION ON VOLUNTEER SERVICE  

104396  Iowa AmeriCorps State of Promise Inclusion Projects  

4/1/09 to 8/31/09  EXTENSION/PUBLIC  

BROSHAR, DONNIE  

EXTENSION 4-H YOUTH DEVELOPMENT-EXT  

MCCARTHY, JUDY  

EXTENSION 4-H YOUTH DEVELOPMENT-EXT  

$1,459  DEPARTMENT OF AGRICULTURE, FSA  

99556  Phase 1 Archaeological Survey for a Hog Confinement in Jackson County  

5/26/09 to 6/30/09  RESEARCH  

HILL, MATTHEW  

ANTHROPOLOGY-LAS  

$1,200  OTTUMWA TEEN CENTER  

96587  Local Support for Iowa AmeriCorps State of Promise Program  

9/1/08 to 8/31/09  EXTENSION/PUBLIC  

BROSHAR, DONNIE  

EXTENSION 4-H YOUTH DEVELOPMENT-EXT
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,000  IOWA DEPARTMENT OF PUBLIC HEALTH

92798  Epidemiology and Laboratory Capacity for Infectious Diseases/West Nile Surveillance

1/1/08  to  12/31/08  RESEARCH
BARTHOLOMAY, LYRIC  ENTOMOLOGY-CALS

$781  MONROE COUNTY AGRICULTURAL EXTENSION

96585  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08  to  8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$781  WAPHELLO COUNTY AGRICULTURAL EXTENSION

97734  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08  to  8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$750  ROCKFORD AFTERSCHOOL PROGRAM

96584  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08  to  8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$285  HARTLEY PUBLIC LIBRARY

96594  Local Support for Iowa AmeriCorps State of Promise Program

9/1/08  to  8/31/09  EXTENSION/PUBLIC
BROSHAR, DONNIE  EXTENSION 4-H YOUTH DEVELOPMENT-EXT