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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,927,894 VARIOUS UTILITIES THROUGH THE IOWA DEPARTMENT OF COMMERCE

99209 Operational Funds for the Iowa Energy Center

9/27/91 to 12/31/99 RESEARCH
NORDMEYER, KEVIN IOWA ENERGY CENTER-VPR/ED

$3,500,000 NATIONAL SCIENCE FOUNDATION

88002 ERC 2: Center for Biorenewable Chemicals

9/1/09 to 8/31/10 RESEARCH
SHANKS, BRET CHEMICAL & BIOLOGICAL ENGINEERING

CO-PI LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-CALS

CO-PI MCCARLEY, TONIA NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR

CO-PI OLIVER, DAVID GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

CO-PI RAMAN, DAVE AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR

CO-PI REILLY, PETE CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

CO-PI ROLLINS, DERRICK CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

CO-PI SHANKS, JACQUELINE CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

CO-PI WOO, LEE CHEMISTRY-LAS

CO-PI WURTELE, EVE GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

CO-PI EUKEN, JILL NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR

CO-PI NIKOLAOU, BASIL BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

CO-PI ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR

CO-PI BOBIK, THOMAS BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

CO-PI JARBOE, LAURA CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

CO-PI KRAUS, GEORGE CHEMISTRY-LAS

CO-PI LAROCK, RICH CHEMISTRY-LAS

CO-PI DICKERSON, JULIE ELECTRICAL & COMPUTER ENGINEERING-ENGR

$2,550,000 DEPARTMENT OF AGRICULTURE, NRCS

99787 Statistical and Survey Methods Support for the National Resources Inventory

3/1/09 to 9/1/09 RESEARCH

CO-PI NUSSER, SARAH STATISTICS-LAS

CO-PI YU, CINDY STATISTICS-LAS

CO-PI KIM, JAE-KWANG STATISTICS-LAS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$2,388,552 NATIONAL INSTITUTES OF HEALTH, NIDA

85517 Partnership Model for Diffusion of Proven Prevention

9/1/09 to 8/31/10 RESEARCH
SPOTH, RICHARD
REDMOND, CLEVE

CO-PI PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE

9/1/09 8/31/11 RESEARCH to NATIONAL INSTITUTES OF HEALTH, NIDA

$2,000,000 NATIONAL SCIENCE FOUNDATION

88002 ERC 2: Center for Biorenewable Chemicals

9/1/09 to 8/31/11 RESEARCH
SHANKS, BRENT

ECOLOGY, EVOLUTION & ORGANISMS BIOLOGY-CALS

LESHEM-ACKERMAN, ADAH

CO-PI NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR

MCCARLEY, TONIA

GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

OLIVER, DAVID

AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR

RAMAN, DAVE

CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

REILLY, PETE

CO-PI NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR

ROLLINS, DERRICK

SHANKS, JACQUELINE

CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

WOO, LEE

CHEMISTRY-LAS

WURTELE, EVE

GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

EUKEN, JILL

NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR

NIKOLAU, BASIL

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

ANEX, ROBERT

AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR

BOBIK, THOMAS

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

JARBOE, LAURA

CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

KRAUS, GEORGE

CHEMISTRY-LAS

LAROCK, RICH

CHEMISTRY-LAS

DICKERSON, JULIE

ELECTRICAL & COMPUTER ENGINEERING-ENGR

$1,732,500 BOARD OF REGENTS, STATE OF IOWA

104587 Grow Iowa Values Fund

7/1/09 to 6/30/11 RESEARCH
DAHL, LISA

VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$1,368,867 NATIONAL SCIENCE FOUNDATION

Federal Cyber Service: Scholarship for Service

8/15/09 to 7/31/11 INSTRUCTION/TRAINING
JACOBSON, DOUG
WIERSEMA, JANICE
LICKLIDER, BARBARA
WONG, JOHNNY
BERGMAN, CLIFFORD

ELECTRICAL & COMPUTER ENGINEERING-ENGR
NATURAL RESOURCE ECOLOGY & MANAGEMENT-EXT
EDUCATIONAL LEADERSHIP & POLICY STUDIES-HS
COMPUTER SCIENCE-LAS
MATHEMATICS-LAS

$1,000,000 FEDERAL HIGHWAY ADMINISTRATION

Improving the Foundation Layers for Concrete Pavements

8/17/09 to 8/16/11 RESEARCH
WHITE, DAVID
NAMBISAN, SHASHI

CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$851,402 NATIONAL SCIENCE FOUNDATION

TRPGR: Cyberinfrastructure for (Comparative) Plant Genome Research Through PlantGDB

7/1/09 to 6/30/10 RESEARCH
BRENDEL, VOLKER

GENETICS, DEVELOPMENT & CELL BIOLOGY

$821,504 NATIONAL SCIENCE FOUNDATION

MRI: Acquisition of a High Resolution Accela-LTQFT Ultra Mass Spectrometer System

9/15/09 to 8/31/12 EQUIPMENT
NIKOLAU, BASIL
LEE, YOUNG-JIN
PERERA, M

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS
CHEMISTRY-LAS
CENTER FOR METABOLIC BIOLOGY - PSI-VPR/ED

$737,626 OFFICE OF NAVAL RESEARCH

Imaging System for Highly Infectious Pathogen-Host Interaction Studies

8/1/09 to 7/3/10 EQUIPMENT
MINION, FRANK
WANNEMUEHLER, MICHAEL
BELLAIRE, BRYAN
NARA, PETER

VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
BIOMEDICAL SCIENCES-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$737,626 OFFICE OF NAVAL RESEARCH

96167 Imaging System for Highly Infectious Pathogen-Host Interaction Studies

8/1/09 to 7/3/10 EQUIPMENT

CO-PI NARASIMHAN, BALAJI
CO-PI MALLAPRAGADA, S.

CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$725,795 NATIONAL SCIENCE FOUNDATION

92632 Transferring Research from a Model System to Uncover the Network that Regulates Long-Distance Signaling in Potato

10/1/08 to 9/30/10 RESEARCH

CO-PI HANNAPEL, DAVID
CO-PI RAO, ARAGULA

HORTICULTURE-AES

BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

$715,263 DEPARTMENT OF ENERGY

82319 Mesoporous Silica-Supported Metal Oxide-Promoted RH Nanocatalysts for Selective Production of Ethanol from Syngas

10/1/06 to 9/30/10 RESEARCH

CO-PI KRAUS, GEORGE
CO-PI LIN, SHANG-YI
CO-PI SADOV, AARON
CO-PI BROWN, ROBERT
CO-PI PRUSKI, MAREK
CO-PI SATRIO, JUSTINUS
CO-PI VIGIL, DENNIS

CHEMISTRY

CHEMISTRY

CHEMISTRY

MECHANICAL ENGINEERING

AMES LABORATORY

CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES

CHEMICAL & BIOLOGICAL ENGINEERING

$700,000 NATIONAL SCIENCE FOUNDATION

97733 MRI: Acquisition of Nanolithography Equipment

9/1/09 to 8/31/10 EQUIPMENT

CO-PI DALAL, VIKRAM
CO-PI SHINAR, JOSEPH
CO-PI BASTAWROS, ASHRAF
CO-PI MALLAPRAGADA, S.
CO-PI LIN, ZHIQUN

ELECTRICAL & COMPUTER ENGINEERING-ENGR

PHYSICS & ASTRONOMY-LAS

AEROSPACE ENGINEERING-ENGR

CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

MATERIALS SCIENCE & ENGINEERING-ENGR
August 01 - 31, 2009

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

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<td>92602</td>
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**CO-PIs:**

- TAYLOR, PETER
- NAMBISAN, SHASHI
- MILLER, GERALD
- MORTON, LOIS
- JOHNSON, LAWRENCE
- MURPHY, PATRICIA
- GLATZ, CHARLES
- JUNG, STEPHANIE
- WANG, TONG
- WHITHAM, STEVEN
- HILL, JOHN
- BAUM, THOMAS

**Notes:**

- RESEARCH
- EXTENSION/PUBLIC

**Dates:**

- 8/26/09 to 8/25/11
- 9/1/08 to 8/31/10
- 9/1/09 to 8/31/10
- 9/1/08 to 8/31/10
- 7/1/09 to 6/30/12
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$351,513 NATIONAL SCIENCE FOUNDATION

**96099** REU Site: Summer Undergraduate Research Experiences in Biogeosciences at Iowa State University

- **8/15/09 to 7/31/12** RESEARCH
- **TIM, UDOYARA** AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
- **KALEITA-FORBES, AMY** AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$350,000 TRANSPORTATION RESEARCH BOARD

**97217** Use of Automated Machine Guidance within the Transportation Industry

- **7/24/09 to 1/23/11** RESEARCH
- **WHITE, DAVID** CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
- **NAMBISET, SHASHI** INSTITUTE FOR TRANSPORTATION-VPR/ED
- **JAHREN, CHARLES** CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$322,254 DEPARTMENT OF AGRICULTURE, FAS

**97768** Enhancing Veterinary Services Through Training and Outreach to Reduce Trade Barriers for Animals and Animal Products in the Americas

- **8/18/09 to 6/30/11** EXTENSION/PUBLIC
- **ROTH, JAMES** VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$320,066 NATIONAL INSTITUTES OF HEALTH

**90346** Characterization of a Complex Regulatory Element of Spinal Muscular Atrophy Genes

- **7/1/09 to 6/30/10** RESEARCH
- **SINGH, RAVINDRA** BIOMEDICAL SCIENCES

$300,196 DEPARTMENT OF AGRICULTURE, CSREES

**99018** Biotechnology Test Production-Advanced Corn Biorefineries

- **9/1/09 to 8/31/10** RESEARCH
- **GLATZ, CHARLES** CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
- **JOHNSON, LAWRENCE** FOOD SCIENCE & HUMAN NUTRITION-AES/CALS
- **WANG, KAN** AGRONOMY-AES/CALS

$300,000 NATIONAL SCIENCE FOUNDATION

**97989** Understanding the Rheology of Cement Based Materials Through Integrated Experiments and Computations at Multiple Scales

- **8/15/09 to 7/31/12** RESEARCH
- **WANG, KEJIN** CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$300,000 NATIONAL SCIENCE FOUNDATION

97989 Understanding the Rheology of Cement Based Materials Through Integrated Experiments and Computations at Multiple Scales

8/15/09 to 7/31/12 RESEARCH

SUNDARARAJAN, SRIRAM MECHANICAL ENGINEERING-ENGR

CO-PI

SUBRAMANIAM, SHANKA MECHANICAL ENGINEERING-ENGR

$300,000 NATIONAL SCIENCE FOUNDATION

98008 GOALI: A Hybrid Method to Support Natural Interaction of Parts in a Virtual Environment

8/15/09 to 7/31/11 RESEARCH

VANCE, JUDY MECHANICAL ENGINEERING-ENGR

CO-PI

GILBERT, STEPHEN VIRTUAL REALITY APPLICATIONS CENTER - IPRT-VPR/ED

$298,000 DEPARTMENT OF AGRICULTURE, CSREES

104022 National Animal Health Laboratory Network Activities for Iowa State University

9/1/09 to 8/31/10 RESEARCH

MAIN, RODGER VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VE

CO-PI

HALBUR, PATRICK VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VE

$268,865 NATIONAL INSTITUTES OF HEALTH

78924 Enzymatic Cyclization to Labdanes and Related Diterpenoid Natural Products

8/1/09 to 7/31/10 RESEARCH

PETERS, REUBEN BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

$268,844 NATIONAL SCIENCE FOUNDATION

98050 Development of Scanning Photothermal Microscope for Nanoscale Sub-Surface Structural Defect Characterization

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

WANG, XINWEI MECHANICAL ENGINEERING-ENGR

$263,481 NATIONAL INSTITUTES OF HEALTH

85547 Yeast SNARE Assembly and Membrane Fusion

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

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

$262,905 DEPARTMENT OF AGRICULTURE, CSREES

99249 New Century Farm, IA

9/1/09 to 8/31/10 EQUIPMENT

JOHNSON, LAWRENCE

CO-PI

COLLETTI, JOE

CO-PI

WANG, TONG

CO-PI

WANG, HUI

CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS

AGRICULTURE & HOME ECONOMICS EXPERIMENT STATION-AES/CALS

FOOD SCIENCE & HUMAN NUTRITION-AES/CALS

CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS

$261,040 DEPARTMENT OF AGRICULTURE, CSREES

99398 Food and Fuel Initiative: Iowa

9/1/09 to 8/31/10 RESEARCH

MISRA, MANJIT

AGRICULTURE ADMINISTRATION-AES/CALS

$248,901 NATIONAL SCIENCE FOUNDATION

97382 SHF: Small: Collaborative Research: Evidence-Based Reliability Assessment of Software Product Lines

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

LUTZ, ROBYN

COMPUTER SCIENCE-LAS

$210,000 IOWA DEPARTMENT OF TRANSPORTATION

104021 Work Plan for the Statewide Urban Design and Specifications Program

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

STEVENS, LARRY

CO-PI

NAMBISAN, SHASHI

INSTITUTE FOR TRANSPORTATION-VPR/ED

INSTITUTE FOR TRANSPORTATION-VPR/ED

$200,558 NATIONAL SCIENCE FOUNDATION

97621 Collaborative Research: Genome Evolution in Natural Populations and Synthetic Lines of Allopolyploids in Tragopogon

8/1/09 to 7/31/11 RESEARCH

SCHNABLE, PATRICK

AGRonomy-CALS

$198,601 NATIONAL SCIENCE FOUNDATION

97446 AF: Small: Collaborative Research: Nonuniformity and Nondeterminism

8/15/09 to 7/31/12 RESEARCH

ADURI, PAVANKUMAR

COMPUTER SCIENCE-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$193,008 NATIONAL INSTITUTES OF HEALTH, NIGMS

99316 Control of Cap-Independent Translation by a Viral 3' UTR

8/17/09 to 7/31/11 RESEARCH
MILLER, WYATT PLANT PATHOLOGY-AES/CALS

$191,840 DEPARTMENT OF AGRICULTURE, CSREES

99417 Iowa Community Vitality Center

8/15/09 to 8/14/10 EXTENSION/PUBLIC
EDELMAN, MARK ECONOMICS-AES/CALS

$176,670 NATIONAL SCIENCE FOUNDATION

97650 Cellular Responses to Quaternary Ammonium Compounds by Pseudomonas Syringe that Influence its Interactions with Plants

8/15/09 to 7/31/10 RESEARCH
BEATTIE, GWYN PLANT PATHOLOGY-CALS

$174,993 NATIONAL SCIENCE FOUNDATION

96619 Extremal Problems on Hereditary Properties and Partitions of Combinatorial Structures

8/1/09 to 7/31/12 RESEARCH
AXENOVOICH, MARIA MARTIN, RYAN MATHEMATICS-LAS

$172,994 IOWA OFFICE OF ENERGY INDEPENDENCE

96293 Increasing the Use of Distillers Grains in Livestock Diets in Iowa: Decreasing the Impact of Insoluble Fiber, Antibiotics, and Sulfate in Swine, Poultry, and Cattle Diets

7/22/09 to 4/1/11 RESEARCH
LOY, DANIEL TRENKLE, ALLEN ANIMAL SCIENCE-AES/CALS
AHN, DONG ANIMAL SCIENCE-CALS
BEITZ, DONALD ANIMAL SCIENCE-CALS
ENSLEY, STEVE VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-EXT
GABLER, NICHOLAS ANIMAL SCIENCE-CALS
HONEYMAN, MARK ANIMAL SCIENCE-CALS
LEE, EUN ANIMAL SCIENCE-CALS
SCHOONMAKER, JON ANIMAL SCIENCE-CALS
SPURLOCK, MICHAEL ANIMAL SCIENCE-CALS
August 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$171,541  DEPARTMENT OF AGRICULTURE, CSREES

99388  Measurement and Mitigation of Odor and Air Emissions from Concentrated Animal Feeding Operations

9/1/09 to 8/31/10  RESEARCH

KANWAR, RAMESHWAR  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
HOFF, STEVEN  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
BURNS, ROBERT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
HARMON, JAY  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
XIN, HONGWEI  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
KOZIEL, JACEK  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS

$168,872  NATIONAL SCIENCE FOUNDATION

97672  Needs Assessment of Chemistry Instructors for Educational Measurement Professional Development Materials

9/1/09 to 8/31/10  RESEARCH

HOLME, THOMAS  CHEMISTRY-LAS

$166,035  NATIONAL SCIENCE FOUNDATION

98028  BRIGE: Simultaneous Spectrum Sensing and Data Reception Architectures and Circuits for Cognitive Radio

8/15/09 to 7/31/11  RESEARCH

NEIHART, NATHAN  ELECTRICAL & COMPUTER ENGINEERING-ENGR

$164,736  DEPARTMENT OF AGRICULTURE, CSREES

99445  International Competitiveness and Marketability of Midwest Agribusiness Products

8/15/09 to 8/14/11  RESEARCH

BABCOCK, BRUCE  ECONOMICS-AES/CALS

$161,391  NATIONAL SCIENCE FOUNDATION

93710  CSR-DMSS, SM: Design and Evaluation of a Scalable Meta-Event Dissemination System

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

TIRTHAPURA, SRIKANTA  ELECTRICAL & COMPUTER ENGINEERING-ENGR
SOMANI, ARUN  ELECTRICAL & COMPUTER ENGINEERING-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$158,579 NATIONAL SCIENCE FOUNDATION

93107 Biofuels and the Hydrologic Cycle

8/9/09 to 7/31/10 RESEARCH
ANEX, ROBERT 
AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
ARRITT, RAYMOND 
AGRONOMY-CALS
GASSMAN, PHILIP 
CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES
JHA, MANOJ 
CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES
GELDER, BRIAN 
AGRONOMY-CALS

$140,000 IOWA CONCRETE PAVING ASSOCIATION

104007 Management of the National Concrete Pavement Tech Center

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

$135,000 MEROIAL

91598 Iowa State University Dairy Data Collection

4/1/08 to 4/1/11 RESEARCH
SPURLOCK, DIANE 
ANIMAL SCIENCE

$132,766 NATIONAL SCIENCE FOUNDATION

93710 CSR-DMSS, SM: Design and Evaluation of a Scalable Meta-Event Dissemination System

9/1/09 to 8/31/11 RESEARCH
TIRTHAPURA, SRIKANTA 
ELECTRICAL & COMPUTER ENGINEERING-ENGR
SOMANI, ARUN 
ELECTRICAL & COMPUTER ENGINEERING-ENGR

$131,983 UNIVERSITY OF COLORADO

83019 Development, Verification and Validation of Multiphase Models for Polydisperse Flow

5/18/07 to 5/17/10 RESEARCH
SUBRAMANIAM, SHANKAR 
MECHANICAL ENGINEERING
FOX, RODNEY 
CHEMICAL & BIOLOGICAL ENGINEERING
August 01 - 31, 2009

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$131,341  MONSANTO COMPANY
8/15/09 to 8/14/11 RESEARCH
GASSMANN, AARON  ENTOMOLOGY-AES
Fitness of Western Corn Rootworm on YieldGard and SmartStax

$130,007  UNIVERSITY OF CALIFORNIA-DAVIS
10/1/08 to 9/29/09 RESEARCH
MARQUIS, GRACE  FOOD SCIENCE & HUMAN NUTRITION-HS
Enhancing Child Nutrition Through Animal Source Food Management Project: Nutrition Center Supplement #2

$125,000  UNITED SOYBEAN BOARD
3/20/08 to 5/31/10 RESEARCH
HILL, JOHN  PLANT PATHOLOGY-CALS
WHITHAM, STEVEN  PLANT PATHOLOGY-CALS
BAUM, THOMAS  PLANT PATHOLOGY-CALS
LEANDRO, LEONOR  PLANT PATHOLOGY-CALS
Development of High-Throughput DNA Based Gene Silencing Technology for Soybeans

$124,594  NATIONAL SCIENCE FOUNDATION
8/15/09 to 7/31/11 RESEARCH
WU, ZHIJUN  MATHEMATICS-LAS
Large-Scale Optimization for Biomolecular Modeling

$118,380  TEXAS TECH UNIVERSITY
9/15/07 to 8/31/10 RESEARCH
WINDUS, THERESA  CHEMISTRY
Simulation of Electronic Non-Adiabatic Dynamics for Reactions with Organic Macromolecules, Liquids and Surfaces

$118,120  UNIVERSITY OF MINNESOTA-DULUTH
9/1/08 to 8/31/12 RESEARCH
NIKOLAU, BASIL  BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS
GEPR/RUI: Functional Genomics of Nectar Production in Brassicaceae
## August 01 - 31, 2009

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

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<td>REU Site: Biological Materials and Processes</td>
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<td>Local and Direct Discontinuous Galerkin Methods: New Algorithms and Applications</td>
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<td>Molecular Design of Nano-Carrier Materials for Reactions Catalyzed by Multi-Enzyme Complexes</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$84,509 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

88552 Electromagnetic Nondestructive Evaluation of Wire Insulation and Models of Insulation Material Properties

9/12/07 to 9/11/10 RESEARCH

CO-PI KESSLER, MICHAEL MATERIALS SCIENCE & ENGINEERING

$81,071 NATIONAL SCIENCE FOUNDATION

82995 Collaborative Research: Effects of Species on Forest Carbon Balances in Lowland Costa Rica

9/1/07 to 8/31/10 RESEARCH

CO-PI HALL, RICHARD NATURAL RESOURCE ECOLOGY & MANAGEMENT

CO-PI RAICH, JAMES ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

CO-PI RUSSELL, ANN NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES/CALS

$80,000 NATIONAL SCIENCE FOUNDATION

84222 CAREER: Practical Design for Secure and Resilient Resource-constrained Wireless Networks

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

GUAN, YONG ELECTRICAL & COMPUTER ENGINEERING

$75,000 CATERPILLAR

99842 Intelligent Compaction for Non-Vibratory 800 Series Machines

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

WHITE, DAVID CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

CO-PI NAMBISAN, SHASHI INSTITUTE FOR TRANSPORTATION-VPR/ED

$74,947 FETZER INSTITUTE

98138 Attachment Style, Group Cohesiveness, and the Effects of Interventions to Promote Forgiveness

5/1/09 to 4/30/12 RESEARCH

Wade, Nathaniel PSYCHOLOGY-LAS

$73,021 UNIVERSITY OF MICHIGAN

81110 Video Game Violence

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

CO-PI ANDERSON, CRAIG PSYCHOLOGY

CO-PI GENTILE, DOUGLAS PSYCHOLOGY
## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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

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August 01 - 31, 2009

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$51,000 UNIVERSITY OF MINNESOTA
410-30-24
99253 Iowa PDP Plan of Work 2009
6/1/09 to 5/31/12 EXTENSION/PUBLIC
DEWITT, JERALD ENTOMOLOGY-EXT

$5,000 NATIONAL RENEWABLE ENERGY LABORATORY
404-25-41
9174 Iowa State Solar Decathlon 2009 - Interlock House
1/1/09 to 1/12/10 RESEARCH
PASSE, ULRIKE ARCHITECTURE-DSN
CO-PI PATE, MICHAEL MECHANICAL ENGINEERING-ENGR
CO-PI SHANE, JENNIFER CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
CO-PI TOWNSEND, ANTHONY LOGISTICS, OPERATIONS, & MANAGEMENT INFORMATION SYSTEMS-BUS
CO-PI ZARECOR, KIMBERLY ARCHITECTURE-DSN
CO-PI GREWELL, DAVID AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR
CO-PI GESKE, JOEL GREENLEE SCHOOL OF JOURNALISM & COMMUNICATION-LAS
CO-PI JARBOE, DARREN CENTER FOR CROPS UTILIZATION RESEARCH - PSI-VPR/ED
CO-PI STRONG, KELLY CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
CO-PI PLAZAK, DAVID ART & DESIGN-DSN
CO-PI CARDINAL-PETT, CLARE ARCHITECTURE-DSN
CO-PI DALAL, VIKRAM ELECTRICAL & COMPUTER ENGINEERING-ENGR
CO-PI HONEYCUTT, LEE ENGLISH-LAS
CO-PI HORWITZ, JAMIE ARCHITECTURE-DSN
CO-PI MARTIN, STEVE MATERIALS SCIENCE & ENGINEERING-ENGR
CO-PI MUECKE, MICKAEL ARCHITECTURE-DSN
CO-PI NELSON, RON MECHANICAL ENGINEERING-ENGR

$50,000 NATIONAL SCIENCE FOUNDATION
420-20-82
93304 Collaborative Research: CT-M: Hardware Containers for Software Components-Detection and Recovery at the Hardware/Software Interface
1/1/10 to 12/31/11 RESEARCH
ZAMBRENO, JOSEPH ELECTRICAL & COMPUTER ENGINEERING-ENGR

$48,011 RATHBUN LAND AND WATER ALLIANCE, INC
400-46-98
99545 Rathbun Lake Watershed Study 2009-2011 Amendment-#8
7/23/09 to 8/31/11 RESEARCH
DOWNING, JOHN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS
August 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$43,900  IOWA DEPARTMENT OF HUMAN SERVICES
478-20-10
104199  Adaptive Equipment Center

7/1/09 to 6/30/10  RESEARCH
STONE, RICHARD  INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR

$43,615  IOWA DEPARTMENT OF JUSTICE
478-12-04
104189  Story County Sexual Assault Response Team

7/1/09 to 6/30/10  EXTENSION/PUBLIC
STEWART, JERRY  VICE PRESIDENT FOR BUSINESS & FINANCE-VPBF

$43,258  THE PENNSYLVANIA STATE UNIVERSITY
404-20-80
81595  Interactional Aerodynamics and Acoustics for Advanced Configurations

9/15/06 to 9/14/11  RESEARCH
RAJAGOPALAN, R.  AEROSPACE ENGINEERING

$40,000  LOS ALAMOS NATIONAL LABORATORY
404-20-13
97749  Advanced Diesel Spray Combustion Modeling and Validation

8/20/09 to 9/30/09  RESEARCH
KONG, SONG-CHARNG  MECHANICAL ENGINEERING-ENGR

$37,817  IOWA DEPARTMENT OF PUBLIC HEALTH
478-40-29
104051  Epidemiology and Laboratory Capacity for Infectious Diseases

1/1/09 to 12/31/09  RESEARCH
BARTHOLOMAY, LYRIC  ENTOMOLOGY-AES/CALS

$37,753  ARGONNE NATIONAL LABORATORY
404-21-02
104731  Joint Appointment Agreement Sanchez

8/18/09 to 8/17/10  RESEARCH
SANCHEZ, MAYLY  PHYSICS & ASTRONOMY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$37,501 NATIONAL SCIENCE FOUNDATION

99519 Numeric Computing: A High-Order Kinetic-Based Quadrature Moment Method for Gas-Particle Flows

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

WANG, ZHI AEROSPACE ENGINEERING-ENGR

FOX, RODNEY CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$37,043 DEPARTMENT OF AGRICULTURE, ERS

104167 Incentives and Structure in Determining Milk Quality and Safety Attributes

7/30/09 to 9/30/10 RESEARCH

JENSEN, HELEN ECONOMICS-AES/CALS

HENNESSY, DAVID ECONOMICS-AES/CALS

DONG, FENGXIA ECONOMICS-AES/CALS

$35,399 UNIVERSITY OF MARYLAND

90678 FRG: Collaborative Research: Kinetic Description of Multi-Scale Phenomena: Modeling, Theory and Computation

9/1/09 to 8/31/10 RESEARCH

LIU, HAILIANG MATHEMATICS

$35,000 SEMICONDUCTOR RESEARCH CORPORATION

99390 Lifetime Electrothermal Stress Management for Multi-Core Systems

8/1/09 to 7/31/10 RESEARCH

GEIGER, RANDALL ELECTRICAL & COMPUTER ENGINEERING-ENGR

CHEN, DEGANG ELECTRICAL & COMPUTER ENGINEERING-ENGR

$35,000 KIRKWOOD COMMUNITY COLLEGE

104508 Evaluation of AgrowKnowledge Resource Center for Agriscience and Technology Education

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

ANDERSON, MARY RESEARCH INSTITUTE FOR STUDIES IN EDUCATION-HS

KEMIS, MARI RESEARCH INSTITUTE FOR STUDIES IN EDUCATION-HS
August 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$34,586 ADA TECHNOLOGIES 404-20-16
93565 Subcontract from ADA Technologies-Novel 3-Dimensional Platform for High-Throughput Glycomics Analysis
8/1/09 to 4/30/10 RESEARCH
HILLIER, ANDREW CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$34,357 MAYO CLINIC 404-28-12
97517 Targeting the Worksite for Obese Nurses and Their Children: A Feasibility Study
4/1/09 to 3/31/10 RESEARCH
LANNINGHAM-FOSTER, LORRAINE FOOD SCIENCE & HUMAN NUTRITION-HS

$32,073 JASPER COUNTY AGRICULTURAL EXTENSION DISTRICT 400-30-36
104556 Agriculture and Natural Resources Program Enhancement for Jasper and Marshall County Extension District
9/1/09 to 6/30/11 EXTENSION/PUBLIC
MILLER, GERALD EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
BROWN, PAUL EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$32,073 MARSHALL COUNTY AGRICULTURAL EXTENSION DISTRICT 400-30-37
104557 Agricultural and Natural Resources Program Enhancement for Jasper and Marshall County Extension Districts
9/1/09 to 6/30/11 EXTENSION/PUBLIC
MILLER, GERALD EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
BROWN, PAUL EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT

$32,000 SOUTH DAKOTA STATE UNIVERSITY 404-25-45
98122 Regional Biomass Feedstock Partnership-Herbaceous Bioenergy Crop Field Trials Project
4/1/09 to 9/30/10 RESEARCH
MOORE, KENNETH AGRONOMY-CALS

$31,685 CLINTON COUNTY AGRICULTURAL EXTENSION DISTRICT 400-30-05
104565 Expanding 4-H Youth Development in Clinton County
9/1/09 to 6/30/11 EXTENSION/PUBLIC
MORRIS, JOHN EXTENSION 4-H YOUTH DEVELOPMENT-EXT
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Managing Frogeye Leaf Spot and Charcoal Rot in the North Central Region</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

August 01 - 31, 2009

$16,000 ALLIANT ENERGY

98353 Evaluation of Infield Corn Stover Densification and Interaction with Storage Quality, Logistics, and Production Cost

1/1/09 to 12/31/11 RESEARCH
DARR, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
BROWN, ROBERT MECHANICAL ENGINEERING-ENGR

$16,000 PIONEER HI-BRED INTERNATIONAL

98864 Corn Pests Research Project

4/28/09 to 4/27/10 RESEARCH
GASSMANN, AARON ENTOMOLOGY-AES/CALS
WEBER, PATRICK ENTOMOLOGY-AES/CALS

$15,000 CITY OF AMES

104200 City of Ames-EPRC

7/1/09 to 6/30/10 RESEARCH
BAIRD, TOM ELECTRICAL & COMPUTER ENGINEERING-ENGR

$13,898 UNIVERSITY OF IOWA

104422 Development of a Small Animal Model of Vaccination Against Malaria Infection

8/1/08 to 7/31/10 RESEARCH
BARTHOLOMAY, LYRIC ENTOMOLOGY-AES/CALS

$12,960 CANINE HEALTH FOUNDATION

99248 Detection of Brucella Canis DNA in Canine Urine, Semen and Vaginal Cells via qPCR Analysis

8/1/09 to 7/31/10 RESEARCH
KAUFFMAN, LINDA VETERINARY CLINICAL SCIENCES-VET
PETERSEN, CHRISTINE VETERINARY PATHOLOGY-VET
BELLAIRE, BRYAN VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
EVANS, LAWRENCE VETERINARY CLINICAL SCIENCES-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

1. $12,000 NATIONAL SCIENCE FOUNDATION
   98896 CT-ER: Detecting Click Fraud in Pay-Per-Click Streams of Online Advertising Networks
   7/30/09 to 8/31/10 RESEARCH
   GUAN, YONG ELECTRICAL & COMPUTER ENGINEERING-ENGR

2. $11,800 NATIONAL SCIENCE FOUNDATION
   99237 REU-Supplement to High-Performance Micro-Forming Enabled by a Novel Design and Control of Magnetostrictive Actuators
   8/17/09 to 6/30/11 RESEARCH
   FAIDLEY, LEANN MECHANICAL ENGINEERING-ENGR
   KIM, GAP-YONG MECHANICAL ENGINEERING-ENGR
   ZOU, QINGZE MECHANICAL ENGINEERING-ENGR

3. $10,000 NATIONAL SCIENCE FOUNDATION
   85121 FRG: Collaborative Research: Algorithmic Randomness
   7/1/09 to 6/30/10 RESEARCH
   LUTZ, JACK COMPUTER SCIENCE

4. $10,000 IOWA DEPARTMENT OF EDUCATION
   104160 Iowa Core Curriculum for Teacher Education
   6/1/09 to 8/31/09 INSTRUCTION/TRAINING
   WHALEY, DAVID HUMAN SCIENCES ADMINISTRATION-HS

5. $10,000 DEPARTMENT OF AGRICULTURE, FS
   104193 Characterization of a New Walnut Yellows-Like Disease
   8/1/09 to 7/31/10 RESEARCH
   HARRINGTON, THOMAS PLANT PATHOLOGY-AES/CALS

6. $9,545 UNITED STATES-ISRAEL BINATIONAL SCIENCE FOUNDATION
   84800 Investigation of the Enhanced Operation Parameters of xPZT-(1-x)PNN Relaxor Ferroelectrics Through Long Time Thermal Cycling
   10/1/09 to 9/30/10 RESEARCH
   TAN, XIAOLI MATERIALS SCIENCE & ENGINEERING
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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**Note:** The entries include the period of the research, the names of the principal investigators, and the names of any co-principal investigators or co-PIs.
August 01 - 31, 2009

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$5,578  IOWA COLLEGE STUDENT AID COMMISSION
96568  Iowa Work-Study Program
        7/1/08  to  6/30/09  STUDENT FINANCIAL AID
        JOHNSON, ROBERTA  STUDENT FINANCIAL AID-VPSA

$5,479  MICHIGAN STATE UNIVERSITY
90615  Viral Hemorrhagic Septicemia, NADF- Wisconsin
        9/1/08  to  8/31/10  EXTENSION/PUBLIC
        DVORAK, GLENDIA  CENTER FOR FOOD SECURITY & PUBLIC HEALTH

$5,394  DEPARTMENT OF AGRICULTURE, ARS
96903  Research Support Agreement
        10/1/08  to  9/30/09  RESEARCH
        ANDREASEN, CLAIRE  VETERINARY PATHOLOGY-VET

$5,000  SYNGENTA
104541  Soybean Aphid Management
        7/31/09  to  12/31/10  RESEARCH
        ONEAL, MATTHEW  ENTOMOLOGY-AES/CALS

$4,000  DEPARTMENT OF AGRICULTURE, ARS
97282  Research Support Agreement
        10/1/08  to  9/30/09  RESEARCH
        BAUM, THOMAS  PLANT PATHOLOGY-AES

$4,000  NATIONAL SCIENCE FOUNDATION
98530  CAREER: Accurate and Efficient Electromagnetic Modeling Techniques for RF Integrated Circuits
        8/12/09  to  4/30/11  RESEARCH
        SONG, JIMING  ELECTRICAL & COMPUTER ENGINEERING-ENGR


I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$4,000 DEPARTMENT OF EDUCATION
Teacher Education Assistance for College and Higher Education (TEACH) Grant, FY09
7/1/08 to 6/30/09 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$3,800 MELLO3Z, LLC
Purifying Food-Grade Alcohol for Vodka Production
8/10/09 to 10/31/09 RESEARCH
KOZIEL, JACEK AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
CAI, LINGSHUANG AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS
MUMM, LYNNE INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY ADMINISTRATION-VPR/ED

$3,122 MICHIGAN STATE UNIVERSITY
Online Producer Fish Health Certification Training Program
9/1/09 to 8/31/10 EXTENSION/PUBLIC
DVORAK, GLENDA CENTER FOR FOOD SECURITY & PUBLIC HEALTH

$1,910 DEPARTMENT OF AGRICULTURE, ARS
Research Support Agreement
3/1/09 to 9/30/09 RESEARCH
LEWIS, LES ENTOMOLOGY-AES/CALS

$1,080 DEPARTMENT OF AGRICULTURE, ARS
Research Support Agreement
10/1/08 to 9/30/09 RESEARCH
NOLAN, LISA VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$1,080 DEPARTMENT OF AGRICULTURE, ARS
Research Support Agreement
10/1/08 to 9/30/09 RESEARCH
BEITZ, DONALD ANIMAL SCIENCE-AES
August 01 - 31, 2009

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$650 DEPARTMENT OF EDUCATION

96628 Academic Competitiveness Grant, FY09

7/1/08 to 6/30/09 STUDENT FINANCIAL AID
JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$525 IOWA DEPARTMENT OF EDUCATION

87812 2007 Team Nutrition Training Grant

9/30/07 to 9/30/09 EXTENSION/PUBLIC
STROHBEHN, CATHERINE APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT
LITCHFIELD, RUTH FOOD SCIENCE & HUMAN NUTRITION