I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$325,192  DEPARTMENT OF AGRICULTURE, CSREES  416-21-08
92919  Rice as a Model System for Elucidating Diterpenoid Metabolism in Cereal Crop Plants
      12/1/08 to 11/30/12  RESEARCH
      PETERS, REUBEN  BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS

$314,601  IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP  471-30-34
96492  Nutrient Water Management Project
      1/1/09 to 12/31/09  RESEARCH
      HELMERS, MATTHEW  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
      CRUMPTON, WILLIAM  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$295,870  UNITED SOYBEAN BOARD  459-40-12
94138  Application of New Genetic Resources to the Improved Control of Soybean Sudden Death Syndrome
      10/1/08 to 9/30/09  RESEARCH
      CIANZIO, SILVIA  AGRONOMY-CALS
      BHATTACHARYYA, MADAN  AGRONOMY-CALS

$250,000  IOWA DEPARTMENT OF TRANSPORTATION  474-79-07
96336  Improving Concrete Overlay Construction
      11/3/08 to 9/30/10  RESEARCH
      WIEGAND, PAUL  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
      CACKLER, ELLS  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
      NAMBISAN, SHASHI  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$247,198  DEPARTMENT OF AGRICULTURE, APHIS  412-45-28
96222  Risk and Benefit Analysis for Genetically Modified Agricultural Products
      9/27/08 to 9/26/09  RESEARCH
      MISRA, MANJIT  BIOSAFETY INSTITUTE FOR GENETICALLY MODIFIED AGRICULTURAL PRODUCTS-A

$239,786  UNIVERSITY OF CALIFORNIA - BERKELEY  404-40-83
79131  Genetic Mechanisms Regulating Inflorescence Architecture in Maize and Related Cereals
      8/1/06 to 7/31/09  RESEARCH
      VOLLBRECHT, ERIK  GENETICS, DEVELOPMENT & CELL BIOLOGY
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$239,786 UNIVERSITY OF CALIFORNIA - BERKELEY

Genetic Mechanisms Regulating Inflorescence Architecture in Maize and Related Cereals

8/1/06 to 7/31/09 RESEARCH
CO-PI BRENDEL, VOLKER
GENETICS, DEVELOPMENT & CELL BIOLOGY

$231,555 NATIONAL INSTITUTES OF HEALTH

High-Accuracy Protein Models Derived from Lower Resolution Data

9/1/08 to 8/31/09 RESEARCH
CO-PI KLOCZKOWSKI, ANDRZEJ
PLANT SCIENCES INSTITUTE-VPR/ED
CO-PI JERNIGAN, ROBERT
BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY
CO-PI HONAVAR, VASANT
COMPUTER SCIENCE
CO-PI WU, ZHIJUN
MATHEMATICS

$193,030 DEPARTMENT OF JUSTICE

Analytical Instrumentation for the MFRC Forensic Science Testing and Evaluation Laboratory

12/26/07 to 12/25/10 EQUIPMENT
BALDWIN, DAVID
AMES LABORATORY DOE-VPR/ED

$162,000 NATIONAL SCIENCE FOUNDATION

Activation of Oxygen: Mechanistic Aspects of Electron Transfer and Atom Transfer

2/1/06 to 1/31/10 RESEARCH
BAKAC, ANDREJ
CHEMISTRY-LAS

$150,000 MIDAMERICAN ENERGY COMPANY

MidAmerican Energy Company-Electric Power Research Center

12/19/05 to 10/31/09 RESEARCH
BAIRD, TOM
ELECTRICAL & COMPUTER ENGINEERING-ENGR

$145,770 IOWA DEPARTMENT OF NATURAL RESOURCES

Status and Occurrence of Native Fish in Iowa Streams: Current Distributions and Historical Changes

8/11/08 to 5/31/11 RESEARCH
CO-PI QUIST, MICHAEL
NATURAL RESOURCE ECOLOGY & MANAGEMENT
CO-PI PIERCE, CLAY
NATURAL RESOURCE ECOLOGY & MANAGEMENT
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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### Additional Information

- **$142,560**
- **$140,722**
- **$135,000**
- **$135,000**
- **$132,305**
- **$124,375**

**Sponsors**

- GOVERNORS TRAFFIC SAFETY BUREAU
- NATIONAL PORK BOARD
- NATIONAL SCIENCE FOUNDATION
- DEPARTMENT OF AGRICULTURE, ARS
- CORPORATION FOR PUBLIC BROADCASTING
- FIRST LEGO LEAGUE

**Researchers**

- SOULEYRETTE, REGINALD
- HANS, ZACHARY
- NAMBISAN, SHASHI
- HARRIS, DELBERT
- HARRIS, ISABEL
- MILLER, GORDON
- HOGBERG, MAYNARD
- WIRTH, DONALD
- JOHNSON, JOEL
- SCHROEDER, CAMILLE

**Departments**

- CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
- CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
- ANIMAL SCIENCE-CALS
- CHEMISTRY
- ANIMAL SCIENCE-AES
- WOI RADIO-VPBF
- ENGINEERING ACADEMIC & STUDENT AFFAIRS-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$120,000 DEPARTMENT OF COMMERCE

94460 University Center Economic Development Program

8/1/08 to 7/31/09 EXTENSION/PUBLIC

COX, RONALD CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT

ROBERTS, JOHN CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT

$118,380 TEXAS TECH UNIVERSITY

87420 Simulation of Electronic Non-Adiabatic Dynamics for Reactions with Organic Macromolecules, Liquids and Surfaces

9/15/07 to 8/31/09 RESEARCH

WINDUS, THERESA CHEMISTRY

$114,060 IOWA DEPARTMENT OF NATURAL RESOURCES

92073 Design and Implementation of a Secretive Marsh Bird Monitoring Program in Iowa

9/25/08 to 5/31/11 RESEARCH

DINSMORE, STEPHEN NATURAL RESOURCE ECOLOGY & MANAGEMENT

$112,500 THERMAL WAVE IMAGING, INC

93201 Thermal Wave Imaging-STTR Phase II

6/1/08 to 5/31/10 RESEARCH

HOLLAND, STEPHEN AEROSPACE ENGINEERING-ENGR

$107,949 UNIVERSITY OF IOWA

91624 Selection of Small Inhibitory Molecules Against Filoviruses

8/5/08 to 7/31/09 RESEARCH

NILSEN-HAMILTON, MARIT BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

$105,328 THE OHIO STATE UNIVERSITY

83146 Development of MHz Frame Rate Optical Diagnostics for Hypersonic Ground Test Facilities

1/5/07 to 1/4/10 RESEARCH

MEYER, TERRENCE MECHANICAL ENGINEERING
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### GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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November 01 - 30, 2008

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$65,000 MICHIGAN STATE UNIVERSITY

94493 North Central Plant Diagnostic Network

7/1/07 to 6/30/09 EXTENSION/PUBLIC
BAUM, THOMAS PLANT PATHOLOGY-CALS

$64,000 UNIVERSITY OF NEW MEXICO

87240 PIRE: Molecular Engineering for Conversion of Biomass-Derived Reactants to Fuels, Chemicals and Materials

9/1/07 to 8/31/09 RESEARCH
SHANKS, BRET CHEMICAL & BIOLOGICAL ENGINEERING

$62,064 AMERICAN OIL CHEMISTS SOCIETY

96934 Uniformity in Near Infrared Measurements of Soybean Quality Traits, Year 6

10/1/08 to 9/30/09 RESEARCH
HURBURGH, CHARLES AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$55,000 CATERPILLAR

94391 Collaborative Research to Develop Onboard Machine Technology for Real-Time Determination of Soil Water Content: Phase III-Development of Field Application System

6/1/08 to 12/31/08 RESEARCH
WHITE, DAVID CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
MORRIS, MAX STATISTICS-LAS
CO-PI CACKLER, ELLS CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
GIESEMANN, HEATH CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR

$55,000 VETERANS ADMINISTRATION MEDICAL CENTER-IOWA CITY

96669 Veterans Administration Rehabilitation Center for Prevention of Blindness

10/1/08 to 9/30/09 RESEARCH
GROZDANIC, SINISA VETERINARY CLINICAL SCIENCES-VET

$54,128 IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

96477 Demonstration of the Impacts of Mixed Annual-Perennial Agroecosystems on Water Quality

7/1/08 to 9/30/09 EXTENSION/PUBLIC
HELMERS, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Midwest Grape and Wine Industry Institute</td>
<td>Miller, Gerald EXTENSION TO AGRICULTURE &amp; NATURAL RESOURCES-EXT</td>
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<td>6/1/08</td>
<td>$48,000</td>
<td>CFED Phase III-Laboratory Kneading Compactor Evaluation and In-Situ Measurements Database Development</td>
<td>White, David CO-PI Morris, Max CO-PI Cackler, Ells CO-PI Nambisan, Shashi CENTER FOR TRANSPORTATION RESEARCH &amp; EDUCATION-VPR/ED</td>
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<td>4/1/08</td>
<td>$47,182</td>
<td>Enhancing Nutritional Value and Marketability of Beans Through Research and Strengthening Key Value Chain Stakeholders in Uganda and Rwanda</td>
<td>Mazur, Robert SOCIOLOGY-LAS</td>
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<td>$45,166</td>
<td>Project Recovery</td>
<td>Glenn, Sherry EXTENSION TO FAMILIES-EXT</td>
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**Note:** All amounts are in USD.
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$45,166  IOWA DEPARTMENT OF HUMAN SERVICES  470-30-05
Project Recovery

96649
7/26/08 to 12/31/08  EXTENSION/PUBLIC
VANGINKEL, MARGARET
EXTENSION TO FAMILIES-EXT

470-30-05

$45,052  PURDUE UNIVERSITY  404-20-23
Spray and Combustion of Gelled Hypergolic Propellants

91353
6/1/08 to 5/31/11  RESEARCH
MEYER, TERRENCE
MECHANICAL ENGINEERING

$45,000  GLYCOMYR  400-23-60
Test Glycosides of 1,25-Dihydroxyvitamin D for Anti-Cancer Activity in Vitro and in Vivo

96780
7/1/08 to 5/31/10  RESEARCH
BLOEDEL, JAMES
BIOMEDICAL SCIENCES-VET

$45,000  NORTHWEST AREA FOUNDATION  400-30-35
Horizons Alumni Grant

96848
10/23/08 to 3/31/09  EXTENSION/PUBLIC
WARNING, JEANNE
EXTENSION TO FAMILIES-EXT

FLETCHER, CYNTHIA
HUMAN DEVELOPMENT & FAMILY STUDIES-EXT

FLETCHER, CYNTHIA
EXTENSION AREA - CENTRAL-EXT

$43,750  ITC MIDWEST, LLC  400-60-12
ITC-Electric Power Research Center

96965
4/1/08 to 12/31/09  RESEARCH
BAIRD, TOM
ELECTRICAL & COMPUTER ENGINEERING-ENGR

$42,624  UNIVERSITY OF MARYLAND  404-65-01
Iron-Based Magnetostrictive Alloys: New Structural Materials for Revolutionary Engineered Systems

78949
10/1/07 to 4/30/09  RESEARCH
LOGRASSO, THOMAS
MATERIALS SCIENCE & ENGINEERING

MCQUEEN, ROBERT
PHYSICS & ASTRONOMY
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$39,000 UNIVERSITY OF NEVADA-LAS VEGAS

94447 High Tech vs High Touch in Resort Operations: Implications for Customer Service and Satisfaction
7/1/08 to 6/30/09 RESEARCH
OH, HAEMOON
JEONG, MIYOUNG
CO-PI APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS
APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS

$38,702 WOODBURY COUNTY AGRICULTURAL EXTENSION DISTRICT

93708 Woodbury County BASICS for FY2009
10/1/08 to 9/30/09 EXTENSION/PUBLIC
MCGILL, SHERRY
SWEERS, RENEE
CO-PI EXTENSION TO FAMILIES-EXT
EXTENSION AREA - NORTHWEST-EXT

$38,148 UNIVERSITY OF NORTH CAROLINA, GREENSBORO

86833 Collaborative Development of Global Fiber, Fabric and Related Products Industry Based Problem-Solving Modules for Undergraduate Curricula
8/1/07 to 7/31/10 RESEARCH
KARPOVA, ELENA
CO-PI APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT

$30,000 DEPARTMENT OF AGRICULTURE, APHIS

96460 Survey of Avian Influenza Virus Subtypes in Migrating Wildbirds
9/30/08 to 9/29/09 RESEARCH
YOOON, KYOUNG-JIN
CO-PI VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$30,000 BOEING COMPANY

96832 NSF I/UCRC Center for Information Protection-Boeing
1/1/09 to 1/1/10 RESEARCH
JACOBSON, DOUG
CO-PI ELECTRICAL & COMPUTER ENGINEERING-ENGR

$30,000 STEEL FOUNDERS SOCIETY OF AMERICA

96846 Performance Steel Castings Phase II
9/4/08 to 4/30/09 RESEARCH
PETERS, FRANK
FRANK, MATTHEW
JACKMAN, JOHN
CO-PI INDUSTRIAL & MANUFACTURING SYSTEMS ENGINEERING-ENGR
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>BRONIKOWSKI, ANNE</td>
<td>Demographic and Hormonal Profiles of Reproductive Decline in Perimenopause</td>
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<td>Food Sharing and Provisioning in Savanna Chimpanzees at Fongoli, Senegal: Male Mating Effort?</td>
<td>1/1/09 to 12/31/09</td>
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<td>9/1/08 to 8/31/09</td>
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<td>Modeling Biofuel Production and Policies on Agriculture in the World and Implications for United States</td>
<td>9/20/07 to 12/31/09</td>
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November 01 - 30, 2008

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$15,000 DEPARTMENT OF AGRICULTURE, ERS

96185 Modeling Biofuel Production and Policies on Agriculture in the World and Implications for United States

   9/20/07 to 12/31/09 RESEARCH

   CO-PI TOKGOZ, SIMLA ECONOMICS-AES

$15,000 IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

96758 Worker Protection Outreach Program

   10/1/08 to 6/30/09 EXTENSION/PUBLIC

   CO-PI BROWN, PAUL EXTENSION ADMINISTRATION-EXT

   CO-PI BUFFINGTON, ELIZABETH ENTOMOLOGY-EXT

$15,000 IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

96760 Educational and Training Components of Iowa's Pesticide Management Plan

   10/1/08 to 6/30/09 EXTENSION/PUBLIC

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

   CO-PI POPE, RICHARD ENTOMOLOGY-EXT

   CO-PI SCHAEFER, KRISTINE ENTOMOLOGY-EXT

$13,467 IOWA DEPARTMENT OF MANAGEMENT

95576 Family Child Care Environment Rating Scale Training for Consultants

   9/24/08 to 6/30/09 EXTENSION/PUBLIC

   CO-PI OESTERREICH, LESIA HUMAN DEVELOPMENT & FAMILY STUDIES-EXT

   CO-PI MAYS, SHARON EXTENSION TO FAMILIES-EXT

   CO-PI DONALD, DONNA EXTENSION TO FAMILIES-EXT

$12,765 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

   10/1/08 to 9/30/09 RESEARCH

   CO-PI TAN, XIAOLI MATERIALS SCIENCE & ENGINEERING
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<td>FEC Solutions</td>
<td>WANG, TONG; JOHNSON, LAWRENCE; POMETTO, ANTHONY</td>
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<td>Tracing Pathogen Contamination Through the Post-Harvest Environment</td>
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$6,500 IOWA COUNCIL OF FOUNDATIONS

96593 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

$6,000 DEPARTMENT OF AGRICULTURE, ARS

97030 Research Support Agreement

10/1/08 to 9/30/09 INSTRUCTION/TRAINING HOGBERG, MAYNARD ANIMAL SCIENCE-AES

$5,000 SOUTHERN IOWA FORAGE AND LIVESTOCK COMMITTEE

88106 Grazing with Wildlife Compatibility Education Project

5/1/06 to 4/30/07 EXTENSION/PUBLIC PEASE, JAMES NATURAL RESOURCE ECOLOGY & MANAGEMENT

$5,000 AMES NOON ROTARY CLUB

93945 Thinking Globally and Acting Locally: Implementing Parenting Programs for Sudanese Refugees in Story County

10/1/08 to 9/30/09 EXTENSION/PUBLIC KEINO, LEAH APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS

$3,549 BLACK HAWK COUNTY ENGINEER

96857 Phase 1 Archaeological Survey for the Gilbertville Road Grade and Pave

10/22/08 to 12/31/08 EXTENSION/PUBLIC HILL, MATTHEW ANTHROPOLOGY-LAS

$3,125 WEBSTER COUNTY ENGINEER

96859 Phase 1 Archaeological Survey for Four Bridges in Webster County

10/23/08 to 12/31/08 EXTENSION/PUBLIC HILL, MATTHEW ANTHROPOLOGY-LAS
## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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1. $1,380  DEPARTMENT OF AGRICULTURE, FSA
   Phase 1 Archaeology Survey in Plymouth County
   11/3/08 to 12/31/08 EXTENSION/PUBLIC
   HILL, MATTHEW ANTHROPOLOGY-LAS

2. $1,199  DEPARTMENT OF AGRICULTURE, ARS
   Research Support Agreement
   10/1/08 to 9/30/09 RESEARCH
   HOGBERG, MAYNARD ANIMAL SCIENCE-AES

3. $1,000  MICHIGAN STATE UNIVERSITY
   North Central Regional Aquaculture Center Extension Project
   9/1/08 to 8/31/09 EXTENSION/PUBLIC
   MORRIS, JOSEPH NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS