I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,250,000 NATIONAL SCIENCE FOUNDATION

ERC 2: Center for Biorenewable Chemicals

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

SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING
LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-CALS
MCCARLEY, TONIA NSF ENGINEERING RESEARCH CENTER FOR BIORENEWABLE CHEMICALS-ENGR
OLIVER, DAVID GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS
RAMAN, DAVE AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR
REILLY, PETE CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
ROLLINS, DERRICK CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
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

$2,750,000 NATIONAL ACADEMY OF SCIENCES

Geotechnical Solutions for Soil Improvement, Rapid Embankment Construction, and Stabilization of the Pavement Working Platform

9/25/07 to 9/24/11 RESEARCH

SCHAEFER, VERNON CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
WHITE, DAVID CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$2,546,541 CONOCOPHILLIPS COMPANY

Biofuels Research Program

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

BROWN, ROBERT MECHANICAL ENGINEERING-ENGR
### Gifts, Grants, Contracts and Memoranda of Agreement

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>SEEC: STEM Student Enrollment and Engagement Through Connections</td>
<td>ROVER, DIANE, SHELLEY, MACK, MICKELSON, STEVEN, BRUNING, MONICA, LAANAN, FRANKIE, JOHNSON, ROBYN</td>
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<td>Preterm Birth, Lung Innate Immunity and RSV</td>
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<td>Aphid Luteovirus Interaction: Aphid Receptors, Luteovirus Receptor-Binding Domains and Blocking Luteovirus Transmission</td>
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**January 01 - 31, 2009**
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

416-40-14 $334,858 DEPARTMENT OF AGRICULTURE, CSREES, NRI
Integrated Regulation of Lipolysis by Perilipin, Adipose Triglyceride Lipase, Integrated Regulation of Lipolysis by Perilipin, Adipose Triglyceride Lipase, and CGI-58 in Dairy Cows
1/15/09 to 1/14/12 RESEARCH
SPURLOCK, DIANE ANIMAL SCIENCE-CALS

416-40-13 $296,260 DEPARTMENT OF AGRICULTURE, CSREES, NRI
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

404-28-68 $274,964 UNIVERSITY OF CALIFORNIA-DAVIS
Enhancing Child Nutrition Through Animal Source Food Management Project
10/1/08 to 8/31/09 RESEARCH
MARQUIS, GRACE FOOD SCIENCE & HUMAN NUTRITION-HS
REDDY, MANJU FOOD SCIENCE & HUMAN NUTRITION-HS
JENSEN, HELEN ECONOMICS-CALS
LONERGAN, ELISABETH ANIMAL SCIENCE-CALS

436-17-07 $250,000 FEDERAL HIGHWAY ADMINISTRATION
Concrete Overlay Field Application Program-Part B
12/30/08 to 12/29/10 RESEARCH
WIEGAND, PAUL CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
CACKLER, ELLS CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

430-21-05 $237,459 NATIONAL INSTITUTES OF HEALTH
Regulations of Snare Dependent Membrane Fusion
12/1/08 to 11/30/09 RESEARCH
SHIN, YEON-KYUN BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY
### GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

**January 01 - 31, 2009**

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<td>ARCHER DANIELS MIDLAND</td>
<td>Biofuels Research Program</td>
<td>BROWN, ROBERT</td>
<td>SHANKS, BRENT; BOBIK, THOMAS</td>
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<td>AGUIRRE DIVISION, JBS INTERNATIONAL</td>
<td>Rural Development in Regions Heavily Impacted by Immigration</td>
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<td>Devil’s Hole Pupfish Population Demographics</td>
<td>DINSMORE, STEPHEN</td>
<td>QUIST, MICHAEL</td>
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$117,701 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

92727 On the Simulation of Free Flight Vortices in Ground Test Facilities

   12/1/08 to 11/30/09 RESEARCH
   HU, HUI AEROSPACE ENGINEERING-ENGR
   DURBIN, PAUL AEROSPACE ENGINEERING-ENGR

$115,000 NATIONAL SCIENCE FOUNDATION

90299 Conformationally Controllable Amphiphiles and Their Applications in Sensor Design

   2/1/08 to 1/31/10 RESEARCH
   ZHAO, YAN CHEMISTRY

$109,881 DEPARTMENT OF NAVY


   1/27/09 to 9/30/09 RESEARCH
   POTOSKI, MATTHEW POLITICAL SCIENCE-LAS

$100,000 IOWA DEPARTMENT OF TRANSPORTATION

96983 Roadway Lighting and Safety: Phase II-Monitoring Quality, Durability, and Efficiency

   1/1/09 to 12/31/10 RESEARCH
   SMADI, OMAR CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
   NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
   HAWKINS, NEAL CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$100,000 CONOCOPHILLIPS COMPANY

97528 Harvest, Storage and Transportation Consortium

   6/1/09 to 5/31/10 RESEARCH
   BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
   BROWN, ROBERT MECHANICAL ENGINEERING-ENGR
   ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
   GKRITZA, KONSTANTINA CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
   DARR, MATTHEW AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$100,000  ARCHER DANIELS MIDLAND

97529  Harvest, Storage and Transportation Consortium

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

BIRRELL, STUART  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
BROWN, ROBERT  MECHANICAL ENGINEERING-ENGR
ANEX, ROBERT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
GKRITZA, KONSTANTINA  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
DARR, MATTHEW  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$100,000  HAWKEYE RENEWABLES

97530  Harvest, Storage and Transportation Consortium

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

BIRRELL, STUART  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
BROWN, ROBERT  MECHANICAL ENGINEERING-ENGR
ANEX, ROBERT  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
GKRITZA, KONSTANTINA  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
DARR, MATTHEW  AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$99,912  AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

90215  Cyanate Ester Resins Modified with Nano-Particles for Inclusion in Continuous Fiber Reinforced Composites

12/1/08 to 11/30/09  RESEARCH

KESSLER, MICHAEL  MATERIALS SCIENCE & ENGINEERING

$98,473  NUGENPLASM COMPANY

93479  Enzyme Digestibility of Starch in Animal Feed

5/1/08 to 4/30/10  RESEARCH

JANE, JAY-LIN  FOOD SCIENCE & HUMAN NUTRITION-CALS

$95,000  IOWA DEPARTMENT OF PUBLIC SAFETY

97236  Governor's Highway Traffic Safety Conference 2009

12/1/08 to 9/30/09  EXTENSION/PUBLIC

KIEFFER, JULIE  EXTENSION COMMUNICATIONS & MARKETING-EXT
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$90,740 NATIONAL SCIENCE FOUNDATION
CAREER: Evolutionary Community Ecology in Plethodon Salamanders
ADAMS, DEAN ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY
3/1/09 to 2/28/10 RESEARCH
$89,114 NATIONAL SCIENCE FOUNDATION
LTREB: Long-Term Research on Environmental Gender Determination in a Model System: The Next Five Years
JANZEN, FREDRIC ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY
3/15/07 to 2/28/10 RESEARCH
$77,790 MAYO CLINIC
Improving Colonoscopy Quality Through Automated Monitoring
TAVANAPONG, WALLAPA COMPUTER SCIENCE-LAS
9/30/08 to 9/29/09 RESEARCH
$73,984 NATIONAL PORK BOARD
Comparison of the Level of Protection and Long-Term Duration of Immunity Induced by Different Commercial PCV2 Vaccines and an Experimental PCV1-2 Live Vaccine in Conventional Pigs
OPRIESSNIG, TANJA VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET
12/15/08 to 12/15/09 RESEARCH
$73,782 UNIVERSITY OF MINNESOTA
NEFE High School Financial Planning Program Evaluation
ANDERSON, DIANNE CENTER FOR SURVEY STATISTICS & METHODOLOGY-VPR/ED
6/1/09 to 9/30/10 RESEARCH
$73,179 NATIONAL SCIENCE FOUNDATION
CAREER: Sculpting Electric Machines for Unidirectional Motion
ALIPRANTIS, DIONYSIOS ELECTRICAL & COMPUTER ENGINEERING-ENGR
8/15/09 to 7/31/10 RESEARCH
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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1. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$72,000 DEPARTMENT OF AGRICULTURE, CSREES

Grassroots Model to Increase Diversity Among Engineers and Technicians in the Bioenergy Workforce

2/1/09 to 1/31/14 SCHOLARSHIP

BERN, CARL

KANWAR, RAMESHWAR

TIM, UDOYARA

AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES

DEPARTMENT OF AGRICULTURE, CSREES

$71,641 UNIVERSITY OF SOUTHERN ILLINOIS

Application of Biotechnology to Control of the Soybean Cyst Nematode

10/1/06 to 9/30/09 RESEARCH

CIANZIO, SILVIA

AGRONOMY-AES

$70,527 IOWA EGG COUNCIL

Poultry Manure Treatment and Application Timing Impacts on Phosphorus Loss with Surface Runoff

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

MALLARINO, ANTONIO

AGRONOMY-AES

$65,373 ARCHER DANIELS MIDLAND COMPANY

Effect of Moisture Content and Chemical Treatment on Storage Stability and Animal Feed Value of Corn Stover Harvested Using Single-Pass Technology

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

RUSSELL, JAMES

LOY, DANIEL

ANIMAL SCIENCE-CALS

$60,507 THE PENNSYLVANIA STATE UNIVERSITY

A Study of African American Marriage and Health

1/1/05 to 12/31/09 RESEARCH

WICKRAMA, K.

CUTRONA, CAROLYN

HUMAN DEVELOPMENT & FAMILY STUDIES

PSYCHOLOGY

$56,339 KENT STATE UNIVERSITY

Self-Assembled Soft Optical NIMS

10/1/08 to 4/30/09 RESEARCH

SOUKOULIS, COSTAS

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

$50,000 CHEVRON PHILLIPS CHEMICAL COMPANY
97464 Center for Biorenewable Chemicals Membership
9/1/08 to 8/31/09 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$50,000 RESEAU DE TRANSPORT DELECTRICITE
97576 Reseau De Transport D'electricite - Electrical Power Research Center
1/1/09 to 12/31/09 RESEARCH
BAIRD, TOM ELECTRICAL & COMPUTER ENGINEERING-ENGR

$50,000 KERN FAMILY FOUNDATION
97752 Project Lead the Way (PLTW) Teachers' Conference in Iowa City
11/1/08 to 7/31/09 INSTRUCTION/TRAINING
ZACHARY, LOREN AEROSPACE ENGINEERING-ENGR

$50,000 GRAIN PROCESSING CORPORATION
97861 Center for Biorenewable Chemicals
9/1/08 to 8/31/09 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$50,000 POET, LLC
97864 Center for Biorenewable Chemicals Membership
9/1/08 to 8/31/09 RESEARCH
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$45,756 ECOSMART TECHNOLOGIES, INC
85646 Mode of Action of Monoterpenoids in Insects
4/1/08 to 3/31/09 RESEARCH
LEWIS, LESLIE ENTOMOLOGY
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$40,372  ARIZONA STATE UNIVERSITY

91367  A Wireless, Multimode, Artificial Neural Network-Based Physical Activity Monitor

    9/19/08 to 6/30/09  RESEARCH
    WELK, GREGORY  KINESIOLOGY

$40,000  OFFICE OF NAVAL RESEARCH

85729  Optical Metamaterials

    12/4/06 to 12/31/09  RESEARCH
    SOUKOULIS, COSTAS  PHYSICS & ASTRONOMY

$40,000  ROCKWELL COLLINS, INC

97415  Experimental Command and Control Project

    1/1/09 to 9/1/09  RESEARCH
    MENNECKE, BRIAN  LOGISTICS, OPERATIONS, & MANAGEMENT INFORMATION SYSTEMS-BUS

$37,975  UNIVERSITY OF NORTHERN IOWA

97696  Improving Chemistry Teaching in Iowa

    8/1/08 to 5/31/09  RESEARCH
    GREENBOWE, THOMAS  CHEMISTRY-LAS
    HOLME, THOMAS  CHEMISTRY-LAS

$37,000  TOYOTA MOTOR ENGINEERING AND MANUFACTURING NORTH AMERICA, INC

97147  The Future Economics of United States Ethanol

    11/19/08 to 3/31/09  RESEARCH
    BABCOCK, BRUCE  ECONOMICS-AES
    BROWN, ROBERT  MECHANICAL ENGINEERING-ENGR

$36,450  THE COOPER INSTITUTE

97156  Evaluation of Fitness and Academic Data from the Texas Youth Fitness Project

    9/1/08 to 8/31/09  RESEARCH
    WELK, GREGORY  KINESIOLOGY-HS
    IHMELS, MICHELLE  KINESIOLOGY-HS
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<td>Harmonization of USB Soybean NIR Efforts: Whole Grain Instruments</td>
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<td>Remote Non-Destructive Testing and Measurement of Large-Scale Power Systems</td>
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<td>White Paper on Alternative Strategies for Safety Improvement Investments</td>
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$18,275 MIDWEST RESEARCH INSTITUTE

87951

5/21/04 to 6/30/09 RESEARCH
SOULEYRETTE, REGINALD
HANS, ZACHARY
NAMBISAN, SHASHI
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
CENTER FOR TRANSPORTATION RESEARCH & EDUCATION
CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$18,262 POLK COUNTY AGRICULTURAL EXTENSION DISTRICT

97300

7/1/08 to 6/30/09 EXTENSION/PUBLIC
PETERSON, MARC
EXTENSION 4-H YOUTH DEVELOPMENT-EXT

$14,999 NATIONAL SECURITY AGENCY

90841

1/20/09 to 1/20/10 RESEARCH
AXENOVICH, MARIA
MATHEMATICS

$14,304 UNITED SOYBEAN BOARD

93941

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

$13,500 AMERICAN COLLEGE OF VETERINARY INTERNAL MEDICINE FOUNDATION

96372

1/1/09 to 12/31/09 RESEARCH
WONG, DAVID
SPONSELLER, BRETT
ALCOTT, CODY
VETERINARY CLINICAL SCIENCES-VET
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
VETERINARY CLINICAL SCIENCES-VET

$12,960 AMERICAN KENNEL CLUB CANINE HEALTH FOUNDATION

96818

2/1/09 to 1/31/10 RESEARCH
PETESEN, CHRISTINE
VETERINARY PATHOLOGY-VET
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$10,000 MICHIGAN TECHNOLOGICAL UNIVERSITY

**Development of Specifications for the Superpave Simple Performance Tests**

10/1/08 to 1/31/09 RESEARCH

WILLIAMS, R. CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$10,000 DEPARTMENT OF AGRICULTURE, CSREES

**Symposium on Systems Biology: Integrative, Comparative, and Multi-Scale Modeling**

1/1/09 to 12/31/09 INSTRUCTION/TRAINING

DOBBS, DRENA GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS

NILSEN-HAMILTON, MARIT BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

TUGGLE, CHRIS ANIMAL SCIENCE-CALS

$10,000 MICHAEL GARTNER

**Emergency Aid Fund**

1/5/09 to 1/5/20 STUDENT FINANCIAL AID

JOHNSON, ROBERTA STUDENT FINANCIAL AID-VPSA

$9,132 UNIVERSITY OF MINNESOTA

**Farm to ISU: Helping Iowa State University Dining Staff Understand and Grow the Local Food Purchasing Program**

9/1/08 to 6/30/09 RESEARCH

NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$8,245 MAYO CLINIC

**Targeting the Worksite for Obese Nurses and Their Children: A Feasibility Study**

4/1/08 to 3/31/09 RESEARCH

LANNINGHAM-FOSTER, LORRAINE FOOD SCIENCE & HUMAN NUTRITION-HS

$7,776 IOWA AGRICULTURAL DEVELOPMENT AUTHORITY

**Iowa Agricultural Youth Institute 2009**

1/1/09 to 8/3/09 EXTENSION/PUBLIC

BROSHAR, DONNIE EXTENSION 4-H YOUTH DEVELOPMENT-EXT
January 01 - 31, 2009

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$6,672  SENIOR COLLEGE OF GREATER DES MOINES

97465  Support for Senior College of Greater Des Moines

1/1/09 to 12/31/09  EXTENSION/PUBLIC
GLENN, SHERRY  EXTENSION ADMINISTRATION-EXT

$4,687  UNITED ACTION FOR YOUTH

96597  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

$4,500  NATIONAL CATTLEMENS BEEF ASSOCIATION

96998  Proposal for a White Paper: Round Muscle Profiling and Tenderness Markers in Beef

12/1/08 to 4/30/09  EXTENSION/PUBLIC
LONERGAN, ELISABETH  ANIMAL SCIENCE-CALS
LONERGAN, STEVEN  ANIMAL SCIENCE-CALS

$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  IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

97536  Wine Sampling for Sensory Evaluation

1/1/09 to 6/30/09  EXTENSION/PUBLIC
DHARMADHIKARI, MURLIDHAR  FOOD SCIENCE & HUMAN NUTRITION-CALS
MILLER, GERALD  AGRONOMY-EXT

$3,000  IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC

97783  Preparation of Samples of Resistant Starch

1/12/09 to 12/31/09  RESEARCH
JANE, JAY-LIN  FOOD SCIENCE & HUMAN NUTRITION-CALS
## II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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$285  HARTLEY PUBLIC LIBRARY

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