II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$3,402,664  VARIOUS UTILITIES THROUGH THE IOWA DEPARTMENT OF COMMERCE  478-17-00
Operational Funds for the Iowa Energy Center
9/27/91 to 12/31/99 RESEARCH  IOWA ENERGY CENTER
BARWIG, FLOYD E

$2,450,000  DEPARTMENT OF AGRICULTURE, NRCS  412-17-04
Statistical and Survey Methods Support for the National Resources Inventory
1/1/07 to 3/31/08 RESEARCH
NUSSER, SARAH M
LARSEN, MICHAEL D
MAITI, TAPABRATA
YU, CINDY L
NUSSER, SARAH M
NUSSER, SARAH M

$1,389,622  NATIONAL SCIENCE FOUNDATION  420-18-02
ADVANCE Institutional Transformation Award: Comprehensive Institutional Transformation
8/1/06 to 7/31/11 INSTRUCTION/TRAINING
CARLSON, SUSAN L
BIRD, SHARON R
BOWEN, BONNIE S
DEBINSKI, DIANE M
FEHR, CARLA J
GAHN, SANDRA W
LAANAN, FRANKIE S
HAMRICK, FLORENCE A

$818,501  NATIONAL SCIENCE FOUNDATION  420-61-96
TRPGR: Cyberinfrastructure for (Comparative) Plant Genome Research Through PlantGDB
7/1/07 to 6/30/08 RESEARCH
BRENDEL, VOLKER
GENETICS, DEVELOPMENT & CELL BIOLOGY
I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$727,677 NATIONAL SCIENCE FOUNDATION
Genome Evolution in Diploid and Polyploid Cotton

10/1/07 to 9/30/08 RESEARCH
WENDEL, JONATHAN F ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY
LESHEM-ACKERMAN, ADAH ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY

$643,000 IOWA DEPARTMENT OF NATURAL RESOURCES
Leopold Center Support

5/1/07 to 8/31/07 RESEARCH
DEWITT, JERALD D ENTOMOLOGY

$575,000 DEPARTMENT OF AGRICULTURE, CSREES
Heartland Integrated Water Quality Coordination Initiative

9/15/04 to 9/14/08 EXTENSION/PUBLIC
MILLER, GERALD A AGRONOMY
LAWRENCE, JOHN D ECONOMICS
MORTON, LOIS W SOCIOLOGY

$554,331 NATIONAL INSTITUTES OF HEALTH, NIMH
Resiliency and Vulnerability in African American Parents

8/1/07 to 7/31/08 RESEARCH
CUTRONA, CAROLYN E PSYCHOLOGY
RUSSELL, DANIEL W HUMAN DEVELOPMENT & FAMILY STUDIES

$495,228 DEPARTMENT OF AGRICULTURE, CSREES
Beta-Glucan Structure and Interactions Modulate Physicochemical, Physiological and Sensory Functions of Oats

9/1/07 to 8/31/10 RESEARCH
WHITE, PAMELA J FOOD SCIENCE & HUMAN NUTRITION
JANNINK, JEAN-LUC AGRONOMY
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$423,000 NATIONAL SCIENCE FOUNDATION
Novel Palladium Migration - Aryne Chemistry

9/1/07 to 8/31/10 RESEARCH
LAROCK, RICHARD C CHEMISTRY

$363,000 NATIONAL SCIENCE FOUNDATION
Materials World Network: An International Collaborative Educational and Research Program in the Study of Mixed Glass Former Phenomena in Materials
8/15/07 to 7/31/08 RESEARCH
MARTIN, STEVE W MATERIALS SCIENCE & ENGINEERING

$360,000 DEPARTMENT OF AGRICULTURE, CSREES
Genetic Regulation of Differential Global Expression Patterns of Natural Anti-Sense Transcripts Among Maize Inbreds

9/1/07 to 8/31/10 RESEARCH
SCHNABLE, PATRICK S AGRONOMY

$351,000 DEPARTMENT OF AGRICULTURE, CSREES
Inorganic Carbon Transport and the CO2-Concentrating Mechanism of Chlamydomonas

9/1/07 to 8/31/10 RESEARCH
SPALDING, MARTIN H GENETICS, DEVELOPMENT & CELL BIOLOGY
LIU, PENG STATISTICS

$350,000 IOWA DEPARTMENT OF ECONOMIC DEVELOPMENT
Grow Iowa Values Fund

7/1/07 to 6/30/09 EXTENSION/PUBLIC
PETERSON, LARS SMALL BUSINESS DEVELOPMENT CENTER

$333,075 NATIONAL INSTITUTES OF HEALTH
Pilot-Scale Heterocyclic and Carbocyclic Libraries for High Throughput Screening

9/1/07 to 8/31/08 RESEARCH
LAROCK, RICHARD C CHEMISTRY
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$329,427  FEDERAL HIGHWAY ADMINISTRATION
Implementation of CP Road Map
7/19/07 to 7/18/08  RESEARCH
CACKLER, E THOMAS  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$323,646  NATIONAL INSTITUTES OF HEALTH
Mechanisms of Manganese Neurotoxicity
8/1/07 to 7/31/08  RESEARCH
KANTHASAMY, ANUMANTHA G  BIOMEDICAL SCIENCES

$314,715  NATIONAL SCIENCE FOUNDATION
Microscale Reactor CFD Model Validation Using Direct Numerical Simulations, High-Speed MicroPIV, and Reactive Laser-Induced Fluorescence
9/1/07 to 8/31/10  RESEARCH
FOX, RODNEY O  CHEMICAL & BIOLOGICAL ENGINEERING
OLSEN, MICHAEL G  MECHANICAL ENGINEERING

$300,000  DEPARTMENT OF AGRICULTURE
Colloid-Mediated Transport of Hormones with Land-Applied Animal Manure
8/15/07 to 8/14/10  RESEARCH
HORTON, ROBERT  AGRONOMY
THOMPSON, MICHAEL L  AGRONOMY
KHANAL, SAMIR K  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
FANG, JIASONG  GEOLOGICAL & ATMOSPHERIC SCIENCES

$300,000  DEPARTMENT OF AGRICULTURE, CSRESS
NAHLN Iowa Renewal
7/1/05 to 6/30/08  RESEARCH
HOFFMAN, LORRAINE J  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE
HALBUR, PATRICK G  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE
REYNOLDS, DONALD L  VETERINARY MEDICINE ADMINISTRATION
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$290,000 DEPARTMENT OF AGRICULTURE, APHIS

The National Veterinary Accreditation Program: Internet Modules

8/7/07 to 12/31/07 INSTRUCTION/TRAINING
ROTH, JAMES A
PALIC, DUSAN
BICKETT-WEDDLE, DANELLE A

8/7/07 to 12/31/07 INSTRUCTION/TRAINING

$280,000 NATIONAL VETERINARY RESEARCH AND QUARANTINE SERVICE

Development of a Differential Test for PRRS Vaccine Virus and Immunobiological Study of Viral Factors for Protective Immunity

1/5/07 to 12/31/10 RESEARCH
YOON, KYOUNG-JIN

$270,922 NATIONAL INSTITUTES OF HEALTH

Enzymatic Cyclization to Labdanes and Related Diterpenoid Natural Products

8/1/07 to 7/31/08 RESEARCH
PETERS, REUBEN J

$265,529 NATIONAL SCIENCE FOUNDATION

Change Detection in Nonlinear Systems and Applications in Shape Analysis

8/15/07 to 7/31/10 RESEARCH
VASWANI, NAMRATA

$228,314 DEPARTMENT OF AGRICULTURE, CSREES

Meteorological Influences on Escape of Transgenes

9/15/07 to 9/14/10 RESEARCH
ARRITT, RAYMOND W

$211,846 NATIONAL INSTITUTES OF HEALTH

Structure and Function of Human Hexacoordinate Hemoglobins

7/1/06 to 6/30/07 RESEARCH
HARGROVE, MARK S
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$210,000  IOWA DEPARTMENT OF TRANSPORTATION
Develop Statewide Urban Design Standards and Specifications Manuals for Public Improvements, FY08
7/1/07 to 6/30/09  RESEARCH
STEVENS, LARRY J  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$200,000  NATIONAL SCIENCE FOUNDATION
Collaborative Research: Development of a Multiphysics Computational Tool for Nanoparticle Synthesis Using Flame-Spray Pyrolysis
9/1/07 to 8/31/10  RESEARCH
FOX, RODNEY O  CHEMICAL & BIOLOGICAL ENGINEERING
GORDON, MARK S  CHEMISTRY
CO-PI

$198,219  NOVARTIS PHARMA AG
Developing a Visualization Platform for Modeling and Simulation
7/30/07 to 5/31/10  INSTRUCTION/TRAINING
CO-PI
CO-PI
CO-PI

$183,978  NATIONAL INSTITUTES OF HEALTH
Synthesis of Medicinally Important Heterocycles
9/1/07 to 8/31/08  RESEARCH
LAROCK, RICHARD C  CHEMISTRY
CO-PI
CO-PI
CO-PI
CO-PI

$177,862  NATIONAL SCIENCE FOUNDATION
Development of High-Dimensional Data Analysis Methods for the Identification of Differentially Expressed Gene Sets
8/15/07 to 7/31/08  RESEARCH
NETTLETON, DANIEL S  STATISTICS
CHEN, SONG X  STATISTICS
DEKKERS, JACK C  ANIMAL SCIENCE
LIU, PENG  STATISTICS
TUGGLE, CHRIS K  ANIMAL SCIENCE
CO-PI
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<td>NATIONAL INSTITUTES OF HEALTH</td>
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<td>Control of Cap-Independent Translation by a Viral 3' UTR</td>
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<td>IOWA DEPARTMENT OF EDUCATION</td>
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<td>IOWA SOYBEAN ASSOCIATION</td>
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<td>Breeding Soybean for Diseases, Pests and Abiotic Stress Resistance</td>
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<td>TOKYO ELECTRON LIMITED</td>
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<td>Process Modeling of Advanced Plasma Equipment Using Hybrid Excitation Schemes</td>
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<td>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</td>
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<td>6/1/07 to 5/31/12</td>
<td>Development and Demonstration of Computational NDE Techniques</td>
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<td>IOWA SOYBEAN ASSOCIATION</td>
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<td>10/1/07 to 9/30/08</td>
<td>Introgression of Novel Genes Conferring Resistance to SCN in Soybean Germplasm of Early Maturity Groups</td>
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$128,998 HARBOR-UNIVERSITY OF CALIFORNIA AT LOS ANGELES MEDICAL CENTER  
Intrathecal Enzyme Therapy for Mucopolysaccharidosis I

9/29/06 to 5/31/08 RESEARCH
ELLINWOOD, NORMAN M  
CO-PI  ANIMAL SCIENCE
KLINE, KAREN L  
CO-PI  VETERINARY CLINICAL SCIENCES
WINTER, MATTHEW D  
CO-PI  VETERINARY CLINICAL SCIENCES

$126,347 IOWA SOYBEAN ASSOCIATION  
Optimizing No-Tillage Soybean Production Practices in Iowa

10/1/07 to 9/30/08 RESEARCH
PEDERSEN, PALLE  
AGRONOMY

$122,607 NATIONAL INSTITUTES OF HEALTH  
Composition of the Resident Enteric Flora Modulates the Development of Colitis

8/1/07 to 7/31/08 RESEARCH
JERGENS, ALBERT E  
VETERINARY CLINICAL SCIENCES

$112,577 DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY  
Assessment of Environmental Services of CREP Wetlands in Iowa and the Midwestern Corn Belt

9/1/07 to 12/31/08 RESEARCH
OTIS, DAVID L  
CO-PI  NATURAL RESOURCE ECOLOGY & MANAGEMENT
CRUMPTON, WILLIAM G  
ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY

$112,000 NATIONAL SCIENCE FOUNDATION  
NETS-NBD: Network Coding-Based Protection

8/1/07 to 7/31/08 RESEARCH
KAMAL, AHMED E  
CO-PI  ELECTRICAL & COMPUTER ENGINEERING
RAMAMOORTHY, ADITYA  
ELECTRICAL & COMPUTER ENGINEERING

$110,000 DEPARTMENT OF COMMERCE  
Iowa EDA University Center Program

8/1/07 to 7/31/08 EXTENSION/PUBLIC
COX, RONALD A  
CENTER FOR INDUSTRIAL RESEARCH & SERVICE
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$110,000  DEPARTMENT OF COMMERCE
   Iowa EDA University Center Program
   8/1/07  to  7/31/08  EXTENSION/PUBLIC
   CO-PI  ROBERTS, JOHN A  CENTER FOR INDUSTRIAL RESEARCH & SERVICE

$106,590  DEPARTMENT OF ENERGY
   Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a High-Resolution Regional Climate System Model
   8/15/07  to  8/14/08  RESEARCH
   GUTOWSKI, WILLIAM J  GEOLOGICAL & ATMOSPHERIC SCIENCES

$102,918  UNIVERSITY OF COLORADO
   Development, Verification and Validation of Multiphase Models for Polydisperse Flow
   5/18/07  to  5/17/08  RESEARCH
   CO-PI  SUBRAMANIAM, SHANKAR  MECHANICAL ENGINEERING
   FOX, RODNEY O  CHEMICAL & BIOLOGICAL ENGINEERING

$100,000  SMALL BUSINESS ADMINISTRATION
   Small Business Development Center Portable Assistance Project
   7/15/07  to  7/14/08  EXTENSION/PUBLIC
   PETERSON, LARS  SMALL BUSINESS DEVELOPMENT CENTER

$98,582  NATIONAL SCIENCE FOUNDATION
   Learning Classifiers from Autonomous, Semantically Heterogeneous, Distributed Data
   8/15/07  to  7/31/08  RESEARCH
   HONAVAR, VASANT G  COMPUTER SCIENCE

$97,341  NATIONAL SCIENCE FOUNDATION
   CAREER: Constructing Coherence: Elementary Teachers’ Strategies for Using Standards-Based Mathematics Curriculum Materials
   8/1/07  to  7/31/08  RESEARCH
   DRAKE, COREY J  CURRICULUM & INSTRUCTION
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$97,000 NATIONAL SCIENCE FOUNDATION
Some Nonlinear PDEs from Material Sciences, Biological Sciences and Fluid Mechanics

9/1/07 to 8/31/10 RESEARCH
SU, BO MATHEMATICS

$95,951 NATIONAL SCIENCE FOUNDATION
REU Site: Summer Program for Interdisciplinary Research: Emerging Interface Technologies

8/17/07 to 1/31/09 RESEARCH
OLIVER, JAMES H MECHANICAL ENGINEERING

$95,312 UNIVERSITY OF MINNESOTA
Barley Coordinated Agricultural Project: Leveraging Genomics, Genetics, and Breeding for Gene Discovery

4/1/07 to 3/31/08 RESEARCH
DICKERSON, JULIE A ELECTRICAL & COMPUTER ENGINEERING
WISE, ROGER P PLANT PATHOLOGY
CO-PI

$95,000 SAN DIEGO STATE UNIVERSITY RESEARCH FOUNDATION, CALIFORNIA ENERGY COMMISSION
Wheat Straw Utilization to Produce Syngas/Hydrogen Fuel for Power Generation

7/1/07 to 6/30/08 RESEARCH
SATRIO, JUSTINUS A CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES
SADAKA, SAMY S CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES
BROWN, ROBERT C MECHANICAL ENGINEERING
CO-PI

$88,814 IOWA DEPARTMENT OF EDUCATION
Iowa Board of Education Senior Student Exit and Follow-Up Surveys and Statistical Evaluation and Consultation Services

6/1/07 to 6/30/08 RESEARCH
ANDERSON, DIANNE G CENTER FOR SURVEY STATISTICS & METHODOLOGY

$87,965 PURDUE UNIVERSITY
SoyMap: An Integrated Map of Soybean for Resolution and Dissection of Multiple Genome Duplication Events

7/1/06 to 6/30/08 RESEARCH
SHOEMAKER, RANDY C AGRONOMY
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<td>417-30-01</td>
<td>$86,198</td>
<td>DEPARTMENT OF AGRICULTURE, CSREES</td>
<td>Building a New Foundation for Management of Curcurbit Bacterial Wilt</td>
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<td>420-20-26</td>
<td>$85,057</td>
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<td>Renewal of PSERC I-UCRC Site at Iowa State University</td>
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<td>478-30-76</td>
<td>$82,000</td>
<td>IOWA DEPARTMENT OF PUBLIC HEALTH</td>
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<td>404-20-03</td>
<td>$81,000</td>
<td>NATIONAL SCIENCE FOUNDATION</td>
<td>Graduate Research Fellowship Program</td>
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<td>404-20-15</td>
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<td>MICHIGAN STATE UNIVERSITY</td>
<td>Thermoelectric Conversion of Waste Heat to Electricity in an IC Engine Powered Vehicle</td>
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<td>404-25-06</td>
<td>$68,000</td>
<td>BATTELLE ENERGY ALLIANCE, LLC</td>
<td>Biomass Feedstock Assembly to Gasification Process Computational Interface Development</td>
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**Co-PIs:**
- GLEASON, MARK L - PLANT PATHOLOGY
- TABER, HENRY G - HORTICULTURE
- TOLLEFSON, JON J - ENTOMOLOGY
- JESSE, LAURA C - PLANT PATHOLOGY
- MCCALLEY, JAMES D - ELECTRICAL & COMPUTER ENGINEERING
- GLENN, SHERRY J - EXTENSION TO FAMILIES
- VAN GINKEL, MARGARET - EXTENSION TO FAMILIES
- HOLGER, DAVID K - GRADUATE COLLEGE
- SHIH, TOM I-PING - AEROSPACE ENGINEERING
- BRYDEN, KENNETH - MECHANICAL ENGINEERING
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$66,420 INSTITUT PASTEUR
Short-Term Investigation of Gene Therapy for MPSIIIB Using the Canine Model
3/1/06 to 6/1/08 RESEARCH
ELLINWOOD, NORMAN M ANIMAL SCIENCE
CO-PI KLINE, KAREN L VETERINARY CLINICAL SCIENCES

$66,001 NATIONAL SCIENCE FOUNDATION
Collaborative Research: Integrated Conflict, Claim, and Dispute Avoidance, Mitigation and Resolution Methodology for Large-Scale Design and Construction Projects
9/1/07 to 8/31/10 RESEARCH
KANDIL, AMR CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$63,221 ARMY RESEARCH OFFICE
Stochastic Control Problems for Processes with Long-Range Dependence and Internet Traffic
7/1/07 to 6/30/09 RESEARCH
WEERASINGHE, ANAND MATHEMATICS

$63,041 IOWA DEPARTMENT OF NATURAL RESOURCES
A Landscape Genetics Approach to Assessing the Risk of CWD-Infected White-Tailed Deer Dispersing from Wisconsin to Iowa
1/1/08 to 12/31/09 RESEARCH
BLANCHONG, JULIE A NATURAL RESOURCE ECOLOGY & MANAGEMENT

$61,466 DEPARTMENT OF AGRICULTURE, FS
Forest Products Laboratory Project
8/15/07 to 12/31/08 RESEARCH
WIPF, TERRY J CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
CO-PI PHARES, BRENT M CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$61,212 IOWA DEPARTMENT OF HUMAN SERVICES
Amendment to the Intergovernmental Contract
9/1/07 to 8/15/08 RESEARCH
KOEHLER, KENNETH J STATISTICS
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$61,000 CITY OF AMES
7/1/05 to 9/1/08 RESEARCH
SIMPKINS, WILLIAM W GEOLOGICAL & ATMOSPHERIC SCIENCES

$60,872 ENVIROTECH SYSTEMS, INC
On-Site Pilot Demonstration of the Static Granular Bed Reactor
8/1/07 to 5/1/08 RESEARCH
ELLIS, TIMOTHY G CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
MUFF, BRIAN IPRT COMPANY ASSISTANCE

$57,231 POLK COUNTY BOARD OF SUPERVISORS
Polk County Wellness Activities for Senior Citizens
7/1/07 to 6/30/10 EXTENSION/PUBLIC
KLEIN, SUSAN B EXTENSION TO FAMILIES

$57,200 IOWA SOYBEAN ASSOCIATION
Understanding High Yielding Soybeans
10/1/07 to 9/30/08 RESEARCH
PEDERSEN, PALLE AGRONOMY

$50,120 DEPARTMENT OF AGRICULTURE, FS
Forest Products Laboratory Project
8/15/07 to 12/31/08 RESEARCH
PHARES, BRENT M CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
HOSTENG, TRAVIS K CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$50,069 SPLASH
On Implementation of Geogramming
8/16/07 to 8/15/08 RESEARCH
CAI, YING COMPUTER SCIENCE
MUFF, BRIAN M IPRT COMPANY ASSISTANCE
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$50,000 NATIONAL SCIENCE FOUNDATION
NSF Workshop on the Future Power Engineering Workforce
8/1/07 to 7/31/08 RESEARCH
LIU, CHEN-CHING ELECTRICAL & COMPUTER ENGINEERING

$50,000 IOWA CITY VETERANS AFFAIRS RESEARCH FOUNDATION
Treatment of Visual Loss in Glaucoma and Ischemia with Neurotrophic Growth Factors
1/1/07 to 9/30/07 RESEARCH
GROZDANIC, SINISA VETERINARY CLINICAL SCIENCES

$49,650 NATIONAL INSTITUTES OF HEALTH
Modulation and Resistance of Levamisole Receptor Channels
1/1/07 to 12/31/07 RESEARCH
MARTIN, RICHARD J BIOMEDICAL SCIENCES

$48,000 POLK COUNTY BOARD OF SUPERVISORS
Nutrition Education for the Polk County Commodity Supplemental Foods Program
7/1/07 to 6/30/10 EXTENSION/PUBLIC
KLEIN, SUSAN B EXTENSION TO FAMILIES

$47,894 IOWA DEPARTMENT OF TRANSPORTATION
Feasibility of Visualization and Simulation Applications to Improve Work Zone Safety and Mobility
9/1/07 to 5/31/08 RESEARCH
STRONG, KELLY C NAMBIKAN, SHASHI S KANDIL, AMR CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$47,096 UNIVERSITY OF WASHINGTON
Treatment of Leukocyte Adhesion Deficiency by Foamy Virus Vectors
8/1/06 to 6/30/08 RESEARCH
ELLINWOOD, NORMAN M ACKERMANN, MARK R ANIMAL SCIENCE VETERINARY PATHOLOGY
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<th>Date</th>
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<td>Technical Support for Low-Impact Development Program for Urban Watersheds of Dickinson County Lakes and Waters</td>
<td>DICKINSON COUNTY SOIL AND WATER CONSERVATION DISTRICT</td>
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<td>3/1/07</td>
<td>Impact of Air Return Strategy on Building Energy Consumption and Indoor Air Quality</td>
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<td>10/1/07</td>
<td>Quantifying the Temporal and Spatial Spread of Bean Pod Mottle Virus in Soybean and Identification of Seasonal and Site Risk Factors to Improve Disease Management and Yield</td>
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<td>Story County Sexual Assault Response Team</td>
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<td>Collaborative Research: Thermal Modeling, Simulation and Management of Memory Subsystems for Multi-Core Systems</td>
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$40,000  IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP  471-30-03
Adaptability of New Wine Grape Cultivars to Iowa
7/1/07   to  6/30/08  EXTENSION/PUBLIC
DOMOTO, PAUL A  HORTICULTURE
NONNECKE, GAIL R  HORTICULTURE

$38,482  DEPARTMENT OF AGRICULTURE, FS  412-17-12
Forest Products Laboratory Project
8/15/07   to  8/31/09  RESEARCH
SRITHARAN, SIVALINGAM  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
WIPF, TERRY J  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$37,500  STANFORD UNIVERSITY  404-20-19
DARPA Dimensionality Reduction and Data Mining
9/13/06   to  8/31/07  RESEARCH
RAJAN, KRISHNA  MATERIALS SCIENCE & ENGINEERING

$35,000  ARIZONA STATE UNIVERSITY  400-20-16
Project M-13
7/1/07   to  6/30/08  RESEARCH
LIU, CHEN-CHING  ELECTRICAL & COMPUTER ENGINEERING

$34,385  NORTH CAROLINA STATE UNIVERSITY  410-30-03
IA-Component IPM Pipe 2007-USDA Aphis Soybean Rust Sentinel Plots in Iowa
1/1/07   to  9/13/08  RESEARCH
YANG, XIA BING  PLANT PATHOLOGY
PILCHER, CAROL L  ENTOMOLOGY

$33,518  DEPARTMENT OF AGRICULTURE, CSREES  416-43-20
Building a New Foundation for Management of Curcurbit Bacterial Wilt
8/1/07   to  7/31/10  RESEARCH
GLEASON, MARK L  PLANT PATHOLOGY
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$32,500 CORPORATION FOR PUBLIC BROADCASTING
Community Service Grant: Rural Listener Access Incentive Fund
10/1/07 to 9/30/09 EXTENSION/PUBLIC
WIRTH, DONALD T WOI RADIO

$31,750 UNIVERSITY OF NEBRASKA
Risk Management Education for Agri-Tourism
7/1/07 to 6/30/08 EXTENSION/PUBLIC
HANSEN, RAYMOND S VALUE ADDED AGRICULTURE
LAUX, MARSHA A VALUE ADDED AGRICULTURE

$30,987 INRA OF RENNS
Reference Procedures to Measure Polluting Emissions from Livestock Buildings and Storage to Air
11/15/06 to 12/31/08 RESEARCH
XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING

$29,729 IOWA DEPARTMENT OF NATURAL RESOURCES
Statistical Support of the Iowa DNR Wildlife Bureau Research Program
8/16/07 to 8/15/09 RESEARCH
OTIS, DAVID L NATURAL RESOURCE ECOLOGY & MANAGEMENT

$29,664 DEPARTMENT OF AGRICULTURE, ARS
SCA No. 58-3625-7-631- Development of Novel Maize Sequence Access and Analysis Methods for Maizegdb
8/1/07 to 6/30/08 RESEARCH
BRENDEL, VOLKER GENETICS, DEVELOPMENT & CELL BIOLOGY

$29,392 NATIONAL INSTITUTES OF HEALTH
Summer Research Training of Veterinary Medical Students
8/1/07 to 5/31/08 INSTRUCTION/TRAINING
REYNOLDS, DONALD L VETERINARY MEDICINE ADMINISTRATION
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$28,800 INSTITUTE FOR TECHNOLOGY DEVELOPMENT
Hyperspectral Imaging for Aflatoxin Detection
7/1/07 to 6/30/08 RESEARCH
TANG, LIE AGRICULTURAL & BIOSYSTEMS ENGINEERING

$28,195 PRACTICAL FARMERS OF IOWA
Coordination of Sustainable Farming Systems and Special Projects for Practical Farmers of Iowa
7/1/07 to 6/10/08 EXTENSION/PUBLIC
EXNER, DERRICK N AGRONOMY

$26,885 IOWA DEPARTMENT OF TRANSPORTATION
Mapping Safe Routes to School and Identifying Barriers: A Statewide Online Mapping Evaluation Tool
7/27/07 to 7/27/09 EXTENSION/PUBLIC
SEEGER, CHRISTOPHER J LANDSCAPE ARCHITECTURE

$26,489 MICHIGAN STATE UNIVERSITY
North Central Regional Aquaculture Center Baitfish Project
9/1/07 to 8/31/08 RESEARCH
MORRIS, JOSEPH NATURAL RESOURCE ECOLOGY & MANAGEMENT

$25,000 NATIONAL PORK BOARD
International Collaboration to Investigate the Sensitivity and Specificity of Mycoplasma Hyopneumoniae PCR Assays
8/1/07 to 8/1/08 RESEARCH
THACKER, EILEEN L VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE

$25,000 IOWA DEPARTMENT OF TRANSPORTATION
In-Service Training for Iowa Department of Transportation FY08
7/1/07 to 6/30/08 RESEARCH
WIPF, TERRY J CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
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$25,000  IOWA STATE UNIVERSITY RESEARCH FOUNDATION  
Pb-Free Solder Research  
8/1/07 to 6/30/08  RESEARCH  
ANDERSON, IVER E  
AMES LABORATORY

$25,000  IOWA STATE UNIVERSITY FOUNDATION  
Development of a Novel Diagnostic Assay for Mycobacterium Avium Subspecies Paratuberculosis Infection by Rapid Quantification of in Vivo Immune  
8/15/07 to 8/15/08  RESEARCH  
HOSTETTER, JESSE M  
VETERINARY PATHOLOGY  
CO-PI  
JONES, DOUGLAS E  
VETERINARY PATHOLOGY

$24,878  DEPARTMENT OF AGRICULTURE, ARS  
Developing a Regional Risk-Assessment Model for Invasive Woody Plants in the North Central United States  
8/23/07 to 7/31/08  RESEARCH  
THOMPSON, JANETTE R  
NATURAL RESOURCE ECOLOGY & MANAGEMENT  
CO-PI  
DIXON, PHILIP M  
STATISTICS  
CO-PI  
ILES, JEFFERY K  
HORTICULTURE

$24,333  NATIONAL PORK BOARD  
Role Of F4/F18 Negative E. coli in Post-Weaning Diarrhea and Edema Disease  
8/1/07 to 8/1/08  RESEARCH  
CORNICK, NANCY  
VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE  
CO-PI  
JORDAN, DIANNA M  
VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE

$23,585  DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY  
Conservation Genetics of the Freshwater Mussel Bivalvia Margaritiferidae  
9/1/07 to 3/31/09  RESEARCH  
ROE, KEVIN J  
NATURAL RESOURCE ECOLOGY & MANAGEMENT

$23,000  SOUTH FLORIDA WATER MANAGEMENT  
Vegetative Flow Resistance Study: Preliminary Field Data Collection and Tactical Implementation Plan  
7/3/07 to 11/30/07  RESEARCH  
REHMANN, CHRIS R  
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>Effects of High and Low Virulent PCV2 on Activated PBMC Populations</td>
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<td>Water Quality as an Indicator of Change in Midwestern Landscapes</td>
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$18,954 GRAIN PROCESSING CORPORATION
Human Feeding Study of a Novel Dietary Fiber
7/15/07 to 6/30/08 RESEARCH
HENDRICH, SUZANNE
FOOD SCIENCE & HUMAN NUTRITION

$18,750 DEPARTMENT OF TRANSPORTATION
Sensitivity Analysis and Modeling of Basic Thermal-Related Properties of Rigid and Flexible Pavements Used in NCHRP
8/15/06 to 1/15/08 FELLOWSHIP
RUDOLPHI, THOMAS J
AEROSPACE ENGINEERING
CO-PI
CEYLON, HALIL
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$18,000 SPIRE CORPORATION
Glass Fiber Core Material Design and Synthesis
7/1/07 to 1/31/08 RESEARCH
MARTIN, STEVE W
MATERIALS SCIENCE & ENGINEERING

$17,328 REB RESEARCH AND CONSULTING
High Temperature, Oxidation Resistant, Low Activation Alloy for 4th Generation Nuclear Reactor Construction
6/20/07 to 3/19/08 RESEARCH
RUSSELL, ALAN M
MATERIALS SCIENCE & ENGINEERING

$16,625 CITY OF AMES
City Of Ames-EPRC
1/1/02 to 6/30/08 RESEARCH
BAIRD, TOM C
ELECTRIC POWER RESEARCH CENTER

$15,476 NATIONAL PORK BOARD
Enhanced Virulence and Treatment of Antibiotic Resistant Salmonella Choleraesuis in Swine
8/15/07 to 8/15/08 RESEARCH
KIMBER, MICHAEL J
CO-PI
CARLSON, STEVE
BIOMEDICAL SCIENCES
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

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<td>IOWA DEPARTMENT OF EDUCATION</td>
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<td>X-ray Flow Visualization of the Cavitating Field Downstream of a Butterfly Valve</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$14,000 ROCKWELL COLLINS
Enhancement of Microcode Development Tools
1/15/07 to 9/14/07 RESEARCH
SOMANI, ARUN K
CO-PI
TYAGI, AKHILESH
ELECTRICAL & COMPUTER ENGINEERING
ELECTRICAL & COMPUTER ENGINEERING

$14,000 ROCKWELL COLLINS
Sensor: 3D Localization Algorithms
1/15/07 to 9/14/07 RESEARCH
SOMANI, ARUN K
ELECTRICAL & COMPUTER ENGINEERING

$13,600 HARVARD UNIVERSITY (SMITHSONIAN ASTROPHYSICAL OBSERVATORY)
VERITAS - Particle Astrophysics
7/1/00 to 4/30/08 RESEARCH
KRENNRICH, FRANK
PHYSICS & ASTRONOMY

$13,438 NEW LINK GENETICS
Graduate Student Agreement for Ramesh Koukuntla
1/1/03 to 12/31/07 RESEARCH
SPALDING, MARTIN H
GENETICS, DEVELOPMENT & CELL BIOLOGY

$13,000 BAYER CROP SCIENCE, LP
Selective Removal of Bentgrass and Cool Season Grasses and Cool Season/Efficacy/ Crabgrass Trial
1/1/07 to 12/30/07 RESEARCH
CHRISTIANS, NICK E
HORTICULTURE

$12,960 AKC CANINE HEALTH FOUNDATION
Comparative Gene Discovery for Canine Cryptorchidism
10/1/07 to 9/30/08 RESEARCH
ROTHSCHILD, MAX F
ANIMAL SCIENCE
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$12,000 NATIONAL SCIENCE FOUNDATION
GOAL: Novel Nanocrystalline Silicon Solar Cells on Plastic Substrates
7/31/07 to 6/30/08 RESEARCH
DALAL, VIKRAM L ELECTRICAL & COMPUTER ENGINEERING

$12,000 NATIONAL SCIENCE FOUNDATION
Interactive and Verifiable Composition of Web Services to Satisfy End-User Goals
7/18/07 to 6/30/10 STUDENT FINANCIAL AID
BASU, SAMIK COMPUTER SCIENCE
HONAVAR, VASANT G COMPUTER SCIENCE
LUTZ, ROBYN R COMPUTER SCIENCE

$11,730 NORTH DAKOTA STATE UNIVERSITY
Iron Deficiency Chlorosis - Regional Tests
3/1/07 to 2/29/08 RESEARCH
CIANZIO, SILVIA R AGRONOMY

$11,660 CALIFORNIA STATE UNIVERSITY-LONG BEACH
External Evaluation CSU-LB Hispanic Serving Institutions Project
6/1/07 to 9/30/07 RESEARCH
RENDON, LAURA I EDUCATIONAL LEADERSHIP & POLICY STUDIES

$11,583 ARMY CORPS OF ENGINEERS
Water Quality Study, Red Rock Reservoir-Rock Island District
7/1/07 to 9/30/07 RESEARCH
LUTZ, DONNA S CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
ONG, SAY KEE CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$11,238 BATTELLE ENERGY ALLIANCE, LLC
Iowa State University Field Research Assistant to a Bioenergy Program
7/16/07 to 9/30/09 RESEARCH
BIRRELL, STUART J AGRICULTURAL & BIOSYSTEMS ENGINEERING
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$10,350  IOWA DEPARTMENT OF PUBLIC SAFETY
Governor’s Highway Traffic Safety Conference
10/1/06 to 9/30/07  EXTENSION/PUBLIC
PAYNE, JACK M  EXTENSION ADMINISTRATION
IOWA DEPARTMENT OF PUBLIC SAFETY

$10,000  ADVANCED TECHNOLOGY INSTITUTE
Determination of Transformation Diagrams for the Superaustenitic Stainless Steel Casting Alloys
12/31/06 to 6/30/08  RESEARCH
CHUMBLEY, LEONARD S  MATERIALS SCIENCE & ENGINEERING
GLEESON, BRIAN  MATERIALS SCIENCE & ENGINEERING

$10,000  DEPARTMENT OF AGRICULTURE, CSREES
Across Species, Across Disciplines and Across Borders; Opportunities for Welfare and Epidemiology Scientists
9/1/07 to 11/30/08  RESEARCH
JOHNSON, ANNA K  ANIMAL SCIENCE

$10,000  FISHER-PRICE, INC.
Understanding the Educational and Aerobic Benefits of the Smart Cycle on Preschool-Aged Children
5/31/07 to 1/31/08  RESEARCH
GENTILE, DOUGLAS A  PSYCHOLOGY

$9,950  NATIONAL SCIENCE FOUNDATION
LTREB: Long-Term Research on Environmental Gender Determination in a Model System: The Next Five Years
7/30/07 to 2/29/08  RESEARCH
JANZEN, FREDRIC J  ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY

$9,800  DEPARTMENT OF EDUCATION
PELL GRANT - FY07
7/1/06 to 6/30/07  STUDENT FINANCIAL AID
JOHNSON, ROBERTA L  VICE PRESIDENT FOR STUDENT AFFAIRS
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$9,500   HEMATECH RESEARCH DEVELOPMENT CENTER
Evaluation of the Resistance of PRP Knockout Cattle to Prion Disease
5/21/07 to 5/28/08 RESEARCH
KANTHASAMY, ANUMANTHA G BIOMEDICAL SCIENCES

$9,000   WINROCK INTERNATIONAL
Value Chain Partnerships for a Sustainable Agriculture - Phase III
5/1/07 to 4/30/08 RESEARCH
PIROG, RICHARD S LEOPOLD CENTER

$8,000   IOWA DEPARTMENT OF PUBLIC HEALTH
MCH 1-800 Healthy Families Line, Amendment #5 & #6
10/1/06 to 9/30/07 EXTENSION/PUBLIC
GLEN, SHERRY J VAN GINKEL, MARGARET EXTENSION TO FAMILIES

$8,000   LEE COUNTY EXTENSION SERVICE
Local Support for Iowa FNP
10/1/06 to 9/30/07 EXTENSION/PUBLIC
MARTIN, PEGGY A EXTENSION TO FAMILIES

$7,385   NATIONAL SCIENCE FOUNDATION
Collaborative Research: NeTS-NR: Evolutionary Architectures for Ultra-Broadband Access Networks
9/1/06 to 8/31/08 RESEARCH
SOMANI, ARUN K ELECTRICAL & COMPUTER ENGINEERING

$6,730   WOMEN, LAND AND LEGACY
Women, Land and Legacy Project Impact Evaluation
7/23/07 to 12/31/07 RESEARCH
FLORA, CORNELIA B BREGENDAHL, CORENE M SOCIOLGY

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$6,465  IOWA DEPARTMENT OF NATURAL RESOURCES  
Emerson Drive Stormwater Demonstration Gallery  
7/16/07  to  6/30/08  RESEARCH  
WAGNER, MIMI M  
LANDSCAPE ARCHITECTURE  

$6,195  CELLENCOR, INC  
Dewatering of Distiller’s Dried Grain for Downstream Microwave Processing  
7/6/07  to  11/30/07  RESEARCH  
STOKKE, DOUGLAS D  
STOKKE, DOUGLAS D  
NATURAL RESOURCE ECOLOGY & MANAGEMENT  
MUFF, BRIAN J  
IPRT COMPANY ASSISTANCE  

$5,262  IOWA DEPARTMENT OF EDUCATION  
Life as a Second Language: A Simulation, Part 2  
7/24/07  to  8/31/07  INSTRUCTION/TRAINING  
VANN, ROBERTA  
ENGLISH  

$5,000  CANADIAN EMBASSY  
Does French Language Study Promote Canadian Studies in the United States?  
12/15/06  to  6/30/08  RESEARCH  
CHAPELLE, CAROL ANN  
ENGLISH  

$5,000  FIRST AMERICAN BANK  
First American Bank-Iowa Values Fund  
7/1/07  to  6/30/15  EXTENSION/PUBLIC  
PETERSON, LARS  
SMALL BUSINESS DEVELOPMENT CENTER  

$5,000  GREENSTREAK, INC  
Greenstreak Dowel Test Proposal  
7/1/07  to  1/14/08  RESEARCH  
PORTER, MAX L  
CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING  

473-29-03  
400-75-01  
472-21-05  
400-21-77  
400-08-03  
400-60-33
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$1,744  IOWA DEPARTMENT OF TRANSPORTATION
Money to Cover Shortfall for Management of Iowa Department of Transportation Library Year 2007
7/1/06 to 6/30/07  RESEARCH
NAMBISAN, SHASHI S  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION

$1,500  IOWA DEPARTMENT OF EDUCATION
Agricultural Education Professional Development Program
6/11/07 to 6/30/07  INSTRUCTION/TRAINING
MARTIN, ROBERT A  AGRICULTURAL EDUCATION & STUDIES

$200  IOWA DEPARTMENT OF PUBLIC HEALTH
Johnson County Basics Coalition
10/1/06 to 9/30/07  EXTENSION/PUBLIC
TEMPLE, MARY J  EXTENSION TO FAMILIES