

August 01 - 31, 2009

70

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

\$3,927,894 VARIOUS UTILITIES THROUGH THE IOWA DEPARTMENT OF COMMERCE 478-17-00

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 420-72-20

88002 ERC 2: Center for Biorenewable Chemicals

9/1/09 to 8/31/10 RESEARCH  
SHANKS, BRENT 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 NIKOLAU, 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 412-17-04

99787 Statistical and Survey Methods Support for the National Resources Inventory

3/1/09 to 9/1/09 RESEARCH  
NUSSER, SARAH STATISTICS-LAS  
CO-PI YU, CINDY STATISTICS-LAS  
CO-PI KIM, JAE-KWANG STATISTICS-LAS

August 01 - 31, 2009

71

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

\$2,388,552	NATIONAL INSTITUTES OF HEALTH, NIDA		430-17-09
<b>85517</b>	Partnership Model for Diffusion of Proven Prevention		
	9/1/09 to 8/31/10	RESEARCH	
	SPOTH, RICHARD	PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE	
CO-PI	REDMOND, CLEVE	PARTNERSHIPS IN PREVENTION SCIENCE INSTITUTE	
\$2,000,000	NATIONAL SCIENCE FOUNDATION		420-72-20
<b>88002</b>	ERC 2: Center for Biorenewable Chemicals		
	9/1/09 to 8/31/11	RESEARCH	
	SHANKS, BRENT	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	NIKOLAU, 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	
\$1,732,500	BOARD OF REGENTS, STATE OF IOWA		475-17-07
<b>104587</b>	Grow Iowa Values Fund		
	7/1/09 to 6/30/11	RESEARCH	
	DAHL, LISA	VICE PRESIDENT FOR RESEARCH & ECONOMIC DEVELOPMENT-VPR/ED	

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

\$1,368,867	NATIONAL SCIENCE FOUNDATION		420-17-74
<b>97175</b>	Federal Cyber Service: Scholarship for Service		
	8/15/09 to 7/31/11	INSTRUCTION/TRAINING	
	JACOBSON, DOUG	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
CO-PI	WIERSEMA, JANICE	NATURAL RESOURCE ECOLOGY & MANAGEMENT-EXT	
CO-PI	LICKLIDER, BARBARA	EDUCATIONAL LEADERSHIP & POLICY STUDIES-HS	
CO-PI	WONG, JOHNNY	COMPUTER SCIENCE-LAS	
CO-PI	BERGMAN, CLIFFORD	MATHEMATICS-LAS	
\$1,000,000	FEDERAL HIGHWAY ADMINISTRATION		436-17-02
<b>99404</b>	Improving the Foundation Layers for Concrete Pavements		
	8/17/09 to 8/16/11	RESEARCH	
	WHITE, DAVID	CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	NAMBISAN, SHASHI	CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED	
\$851,402	NATIONAL SCIENCE FOUNDATION		420-61-96
<b>79209</b>	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		420-40-79
<b>97792</b>	MRI: Acquisition of a High Resolution Accela-LTQFT Ultra Mass Spectrometer System		
	9/15/09 to 8/31/12	EQUIPMENT	
	NIKOLAU, BASIL	BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS	
CO-PI	LEE, YOUNG-JIN	CHEMISTRY-LAS	
CO-PI	PERERA, M	CENTER FOR METABOLIC BIOLOGY - PSI-VPR/ED	
\$737,626	OFFICE OF NAVAL RESEARCH		421-23-02
<b>96167</b>	Imaging System for Highly Infectious Pathogen-Host Interaction Studies		
	8/1/09 to 7/3/10	EQUIPMENT	
	MINION, FRANK	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	WANNEMUEHLER, MICHAEL	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	BELLAIRE, BRYAN	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
CO-PI	NARA, PETER	BIOMEDICAL SCIENCES-VET	

August 01 - 31, 2009

73

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

\$737,626 OFFICE OF NAVAL RESEARCH

421-23-02

**96167** Imaging System for Highly Infectious Pathogen-Host Interaction Studies

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

CO-PI NARASIMHAN, BALAJI CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  
CO-PI MALLAPRAGADA, S. CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

\$725,795 NATIONAL SCIENCE FOUNDATION

420-40-32

**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

HANNAPEL, DAVID HORTICULTURE-AES  
CO-PI RAO, ARAGULA BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS

\$715,263 DEPARTMENT OF ENERGY

401-25-12

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

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

KRAUS, GEORGE CHEMISTRY  
CO-PI LIN, SHANG-YI CHEMISTRY  
CO-PI SADOW, AARON CHEMISTRY  
CO-PI BROWN, ROBERT MECHANICAL ENGINEERING  
CO-PI PRUSKI, MAREK AMES LABORATORY  
CO-PI SATRIO, JUSTINUS CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES  
CO-PI VIGIL, DENNIS CHEMICAL & BIOLOGICAL ENGINEERING

\$700,000 NATIONAL SCIENCE FOUNDATION

441-25-01

**97733** MRI: Acquisition of Nanolithography Equipment

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

DALAL, VIKRAM ELECTRICAL & COMPUTER ENGINEERING-ENGR  
CO-PI SHINAR, JOSEPH PHYSICS & ASTRONOMY-LAS  
CO-PI BASTAWROS, ASHRAF AEROSPACE ENGINEERING-ENGR  
CO-PI MALLAPRAGADA, S. CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  
CO-PI LIN, ZHIQUN MATERIALS SCIENCE & ENGINEERING-ENGR

August 01 - 31, 2009

74

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

\$625,000 FEDERAL HIGHWAY ADMINISTRATION

436-17-05

**99289** Development of Performance Properties of Ternary Mixtures: Field Demonstration Projects

8/26/09 to 8/25/11 RESEARCH

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

\$575,000 DEPARTMENT OF AGRICULTURE, CSREES

416-30-03

**93684** Heartland Regional Water Coordination Initiative

9/1/08 to 8/31/10 EXTENSION/PUBLIC

CO-PI MILLER, GERALD AGRONOMY-EXT  
CO-PI MORTON, LOIS SOCIOLOGY-EXT

\$546,320 DEPARTMENT OF AGRICULTURE, CSREES

416-40-21

**99084** Protein Utilization, IA: Advanced Soybean Refineries-Year 2

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

CO-PI JOHNSON, LAWRENCE FOOD SCIENCE & HUMAN NUTRITION-AES/CALS  
CO-PI MURPHY, PATRICIA FOOD SCIENCE & HUMAN NUTRITION-AES/CALS  
CO-PI GLATZ, CHARLES CHEMICAL & BIOLOGICAL ENGINEERING-ENGR  
CO-PI JUNG, STEPHANIE FOOD SCIENCE & HUMAN NUTRITION-AES/CALS  
CO-PI WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES/CALS

\$521,945 NATIONAL SCIENCE FOUNDATION

420-40-33

**92602** TRMS: High-Throughput Functional Analysis of Soybean Defense Pathways by Virus-Induced Gene Silencing

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

CO-PI WHITHAM, STEVEN PLANT PATHOLOGY-AES  
CO-PI HILL, JOHN PLANT PATHOLOGY-AES  
CO-PI BAUM, THOMAS PLANT PATHOLOGY-AES

\$500,000 NATIONAL SCIENCE FOUNDATION

420-66-01

**97630** ER StressTransducing Transcription Factors in Plants

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

SPALDING, MARTIN GENETICS, DEVELOPMENT & CELL BIOLOGY-CALS

August 01 - 31, 2009

75

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

\$464,802 DEPARTMENT OF COMMERCE

426-35-90

**99029** Iowa Center for Industrial Research and Service

7/1/09 to 9/30/09 EXTENSION/PUBLIC

COX, RONALD CENTER FOR INDUSTRIAL RESEARCH & SERVICE-EXT

\$439,107 DEPARTMENT OF AGRICULTURE, CSREES

416-40-22

**99368** Midwest Poultry Consortium Research Program

8/15/09 to 8/14/10 RESEARCH

XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS  
CO-PI WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES/CALS  
CO-PI REITMEIER, CHERYLL FOOD SCIENCE & HUMAN NUTRITION-HS

\$395,992 NATIONAL SCIENCE FOUNDATION

441-17-02

**96681** Emergence, Mitigation, and Exploitation of Complex Behavior in Networked Control Systems

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

ELIA, NICOLA ELECTRICAL & COMPUTER ENGINEERING-ENGR

\$384,200 NATIONAL SCIENCE FOUNDATION

441-21-07

**94439** Acquisition of An Accurate Mass Quadrupole Time of Flight Mass Spectrometer

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

PETRICH, JACOB CHEMISTRY-LAS

\$377,310 DEPARTMENT OF HOMELAND SECURITY AND TECHNOLOGY

428-40-02

**93484** Development of United States Capability to Detect and Accurately Identify Threatening Plant Pathogens

9/30/09 to 9/29/10 RESEARCH

NUTTER, FORREST PLANT PATHOLOGY-CALS

\$366,399 NATIONAL SCIENCE FOUNDATION

441-17-01

**96803** Lifetime Electrothermal Stress Management for Multi-Core Systems

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

GEIGER, RANDALL ELECTRICAL & COMPUTER ENGINEERING-ENGR  
CO-PI CHEN, DEGANG ELECTRICAL & COMPUTER ENGINEERING-ENGR

August 01 - 31, 2009

76

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

\$351,513	NATIONAL SCIENCE FOUNDATION			441-40-02
<b>96099</b>	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	
CO-PI	KALEITA-FORBES, AMY		AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS	
\$350,000	TRANSPORTATION RESEARCH BOARD			428-17-06
<b>97217</b>	Use of Automated Machine Guidance within the Transportation Industry			
	7/24/09 to 1/23/11	RESEARCH		
	WHITE, DAVID		CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
CO-PI	NAMBISAN, SHASHI		INSTITUTE FOR TRANSPORTATION-VPR/ED	
CO-PI	JAHREN, CHARLES		CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR	
\$322,254	DEPARTMENT OF AGRICULTURE, FAS			412-05-30
<b>97768</b>	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			430-23-09
<b>90346</b>	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			416-43-43
<b>99018</b>	Biotechnology Test Production-Advanced Corn Biorefineries			
	9/1/09 to 8/31/10	RESEARCH		
	GLATZ, CHARLES		CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
CO-PI	JOHNSON, LAWRENCE		FOOD SCIENCE & HUMAN NUTRITION-AES/CALS	
CO-PI	WANG, KAN		AGRONOMY-AES/CALS	
\$300,000	NATIONAL SCIENCE FOUNDATION			420-20-25
<b>97989</b>	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	

August 01 - 31, 2009

77

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

\$300,000	NATIONAL SCIENCE FOUNDATION		420-20-25
<b>97989</b>	Understanding the Rheology of Cement Based Materials Through Integrated Experiments and Computations at Multiple Scales		
	8/15/09 to 7/31/12	RESEARCH	
CO-PI	SUNDARARAJAN, SRIRAM	MECHANICAL ENGINEERING-ENGR	
CO-PI	SUBRAMANIAM, SHANKAR	MECHANICAL ENGINEERING-ENGR	
\$300,000	NATIONAL SCIENCE FOUNDATION		420-25-21
<b>98008</b>	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		416-23-05
<b>104022</b>	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-VET	
CO-PI	HALBUR, PATRICK	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
\$268,865	NATIONAL INSTITUTES OF HEALTH		430-21-35
<b>78924</b>	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		420-20-23
<b>98050</b>	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		430-21-04
<b>85547</b>	Yeast SNARE Assembly and Membrane Fusion		
	7/1/09 to 6/30/10	RESEARCH	
	SHIN, YEON-KYUN	BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY	



August 01 - 31, 2009

78

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

\$262,905 DEPARTMENT OF AGRICULTURE, CSREES

416-40-23

**99249** New Century Farm, IA

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

JOHNSON, LAWRENCE CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS  
CO-PI COLLETTI, JOE AGRICULTURE & HOME ECONOMICS EXPERIMENT STATION-AES/CALS  
CO-PI WANG, TONG FOOD SCIENCE & HUMAN NUTRITION-AES/CALS  
CO-PI WANG, HUI CENTER FOR CROPS UTILIZATION RESEARCH-AES/CALS

\$261,040 DEPARTMENT OF AGRICULTURE, CSREES

416-40-20

**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

441-21-06

**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

474-77-59

**104021** Work Plan for the Statewide Urban Design and Specifications Program

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

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

\$200,558 NATIONAL SCIENCE FOUNDATION

441-40-01

**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

420-21-28

**97446** AF: Small: Collaborative Research: Nonuniformity and Nondeterminism

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

ADURI, PAVANKUMAR COMPUTER SCIENCE-LAS

August 01 - 31, 2009

79

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

\$193,008	NATIONAL INSTITUTES OF HEALTH, NIGMS		440-40-02
<b>99316</b>	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		417-30-04
<b>99417</b>	Iowa Community Vitality Center		
	8/15/09 to 8/14/10	EXTENSION/PUBLIC	
	EDELMAN, MARK	ECONOMICS-AES/CALS	
\$176,670	NATIONAL SCIENCE FOUNDATION		420-40-12
<b>97650</b>	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		441-21-05
<b>96619</b>	Extremal Problems on Hereditary Properties and Partitions of Combinatorial Structures		
	8/1/09 to 7/31/12	RESEARCH	
	AXENOVICH, MARIA	MATHEMATICS-LAS	
CO-PI	MARTIN, RYAN	MATHEMATICS-LAS	
\$172,994	IOWA OFFICE OF ENERGY INDEPENDENCE		478-40-32
<b>96293</b>	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	ANIMAL SCIENCE-AES/CALS	
CO-PI	TRENKLE, ALLEN	ANIMAL SCIENCE-CALS	
CO-PI	AHN, DONG	ANIMAL SCIENCE-CALS	
CO-PI	BEITZ, DONALD	ANIMAL SCIENCE-CALS	
CO-PI	ENSLEY, STEVE	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-EXT	
CO-PI	GABLER, NICHOLAS	ANIMAL SCIENCE-CALS	
CO-PI	HONEYMAN, MARK	ANIMAL SCIENCE-CALS	
CO-PI	LEE, EUN	ANIMAL SCIENCE-CALS	
CO-PI	SCHOONMAKER, JON	ANIMAL SCIENCE-CALS	
CO-PI	SPURLOCK, MICHAEL	ANIMAL SCIENCE-CALS	

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

\$171,541	DEPARTMENT OF AGRICULTURE, CSREES	416-41-11
<b>99388</b>	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	
CO-PI	HOFF, STEVEN AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
CO-PI	BURNS, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
CO-PI	HARMON, JAY AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
CO-PI	XIN, HONGWEI AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
CO-PI	KOZIEL, JACEK AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$168,872	NATIONAL SCIENCE FOUNDATION	420-21-52
<b>97672</b>	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	420-20-18
<b>98028</b>	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	416-44-11
<b>99445</b>	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	420-17-05
<b>93710</b>	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	
CO-PI	SOMANI, ARUN ELECTRICAL & COMPUTER ENGINEERING-ENGR	

August 01 - 31, 2009

81

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

\$158,579 NATIONAL SCIENCE FOUNDATION

420-25-33

**93107** Biofuels and the Hydrologic Cycle  
8/9/09 to 7/31/10 RESEARCH  
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS  
CO-PI ARRITT, RAYMOND AGRONOMY-CALS  
CO-PI GASSMAN, PHILIP CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES  
CO-PI JHA, MANOJ CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES  
CO-PI GELDER, BRIAN AGRONOMY-CALS

\$140,000 IOWA CONCRETE PAVING ASSOCIATION

400-17-91

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

\$135,000 Merial

400-40-06

**91598** Iowa State University Dairy Data Collection  
4/1/08 to 4/1/11 RESEARCH  
SPURLOCK, DIANE ANIMAL SCIENCE

\$132,766 NATIONAL SCIENCE FOUNDATION

420-17-05

**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  
CO-PI SOMANI, ARUN ELECTRICAL & COMPUTER ENGINEERING-ENGR

\$131,983 UNIVERSITY OF COLORADO

404-20-01

**83019** Development, Verification and Validation of Multiphase Models for Polydisperse Flow  
5/18/07 to 5/17/10 RESEARCH  
SUBRAMANIAM, SHANKAR MECHANICAL ENGINEERING  
CO-PI FOX, RODNEY CHEMICAL & BIOLOGICAL ENGINEERING

August 01 - 31, 2009

82

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

\$131,341	MONSANTO COMPANY			400-40-42
<b>95891</b>	Fitness of Western Corn Rootworm on YieldGard and SmartStax			
	8/15/09 to 8/14/11	RESEARCH		
	GASSMANN, AARON		ENTOMOLOGY-AES	
\$130,007	UNIVERSITY OF CALIFORNIA-DAVIS			404-28-68
<b>104496</b>	Enhancing Child Nutrition Through Animal Source Food Management Project: Nutrition Center Supplement #2			
	10/1/08 to 9/29/09	RESEARCH		
	MARQUIS, GRACE		FOOD SCIENCE & HUMAN NUTRITION-HS	
\$125,000	UNITED SOYBEAN BOARD			459-40-03
<b>97819</b>	Development of High-Throughput DNA Based Gene Silencing Technology for Soybeans			
	3/20/08 to 5/31/10	RESEARCH		
	HILL, JOHN		PLANT PATHOLOGY-CALS	
CO-PI	WHITHAM, STEVEN		PLANT PATHOLOGY-CALS	
CO-PI	BAUM, THOMAS		PLANT PATHOLOGY-CALS	
CO-PI	LEANDRO, LEONOR		PLANT PATHOLOGY-CALS	
\$124,594	NATIONAL SCIENCE FOUNDATION			420-21-81
<b>97153</b>	Large-Scale Optimization for Biomolecular Modeling			
	8/15/09 to 7/31/11	RESEARCH		
	WU, ZHIJUN		MATHEMATICS-LAS	
\$118,380	TEXAS TECH UNIVERSITY			404-21-24
<b>87420</b>	Simulation of Electronic Non-Adiabatic Dynamics for Reactions with Organic Macromolecules, Liquids and Surfaces			
	9/15/07 to 8/31/10	RESEARCH		
	WINDUS, THERESA		CHEMISTRY	
\$118,120	UNIVERSITY OF MINNESOTA-DULUTH			404-40-04
<b>94571</b>	GEPR/RUI: Functional Genomics of Nectar Production in Brassicaceae			
	9/1/08 to 8/31/12	RESEARCH		
	NIKOLAU, BASIL		BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-CALS	

August 01 - 31, 2009

83

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

\$101,131	NATIONAL SCIENCE FOUNDATION			420-60-21
<b>96053</b>	REU Site: Biological Materials and Processes			
	5/1/09 to 4/30/11	RESEARCH		
	NARASIMHAN, BALAJI	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR		
CO-PI	LAMM, MONICA	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR		
\$100,000	NATIONAL SCIENCE FOUNDATION			420-17-15
<b>97258</b>	CRS: Small: Meta Analysis Directed Execution			
	9/1/09 to 8/31/11	RESEARCH		
	TYAGI, AKHILESH	ELECTRICAL & COMPUTER ENGINEERING-ENGR		
CO-PI	SOMANI, ARUN	ELECTRICAL & COMPUTER ENGINEERING-ENGR		
CO-PI	GADIA, SHASHI	COMPUTER SCIENCE-LAS		
\$99,235	NATIONAL SCIENCE FOUNDATION			441-21-08
<b>97334</b>	Local and Direct Discontinuous Galerkin Methods: New Algorithms and Applications			
	9/1/09 to 8/31/12	RESEARCH		
	YAN, JUE	MATHEMATICS-LAS		
\$95,669	NATIONAL SCIENCE FOUNDATION			420-20-38
<b>98219</b>	Molecular Design of Nano-Carrier Materials for Reactions Catalyzed by Multi-Enzyme Complexes			
	10/1/09 to 9/30/10	RESEARCH		
	MALLAPRAGADA, S.	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR		
CO-PI	NARASIMHAN, BALAJI	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR		
CO-PI	PETERS, REUBEN	BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS		
\$95,000	AREA EDUCATION AGENCY 267			400-28-13
<b>104375</b>	Area Education Agency 267 Technology Leadership Training			
	8/1/09 to 6/30/11	INSTRUCTION/TRAINING		
	MCLEOD, SCOTT	EDUCATIONAL LEADERSHIP & POLICY STUDIES-HS		
\$84,509	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			422-25-04
<b>88552</b>	Electromagnetic Nondestructive Evaluation of Wire Insulation and Models of Insulation Material Properties			
	9/12/07 to 9/11/10	RESEARCH		
	BOWLER, NICOLA	MATERIALS SCIENCE & ENGINEERING		

August 01 - 31, 2009

84

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

\$84,509	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			422-25-04
<b>88552</b>	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			420-40-23
<b>82995</b>	Collaborative Research: Effects of Species on Forest Carbon Balances in Lowland Costa Rica			
	9/1/07 to 8/31/10	RESEARCH		
	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			420-17-45
<b>84222</b>	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			400-17-01
<b>99842</b>	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			400-17-03
<b>98138</b>	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			404-17-42
<b>81110</b>	Video Game Violence			
	6/1/09 to 5/31/10	RESEARCH		
	ANDERSON, CRAIG		PSYCHOLOGY	
CO-PI	GENTILE, DOUGLAS		PSYCHOLOGY	

August 01 - 31, 2009

85

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

\$71,236	ARIZONA STATE UNIVERSITY				404-20-11
<b>98772</b>	Power System Engineering Center				
	1/1/09 to 12/31/10	RESEARCH			
	MCCALLEY, JAMES		ELECTRICAL & COMPUTER ENGINEERING-ENGR		
\$70,800	ROBYT, JOHN				400-21-01
<b>104669</b>	Chemical and Enzymatic Modification and Carbohydrates				
	7/1/09 to 6/30/99	RESEARCH			
	HONZATKO, RICHARD		BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS		
\$69,999	NATIONAL SCIENCE FOUNDATION				420-17-64
<b>93721</b>	Collaborative Research: CSR-PSCE, TM: Effective Resource Sharing and Coordination Inside Multicore Processors for High Throughput Computing				
	9/1/09 to 8/31/11	RESEARCH			
	ZHANG, ZHAO		ELECTRICAL & COMPUTER ENGINEERING-ENGR		
\$69,285	DEPARTMENT OF EDUCATION				432-57-52
<b>96630</b>	Pell Grant, FY09				
	7/1/08 to 6/30/09	STUDENT FINANCIAL AID			
	JOHNSON, ROBERTA		STUDENT FINANCIAL AID-VPSA		
\$69,067	HENRY COUNTY AGRICULTURAL EXTENSION DISTRICT				400-30-08
<b>104619</b>	Program Enhancements for Extension Region 20				
	9/1/09 to 6/30/11	EXTENSION/PUBLIC			
	WARNING, JEANNE		EXTENSION TO FAMILIES-EXT		
	CO-PI MORRIS, JOHN		EXTENSION 4-H YOUTH DEVELOPMENT-EXT		
\$66,629	IOWA DEPARTMENT OF HUMAN SERVICES				470-21-06
<b>104552</b>	Iowa Department of Human Services, Intergovernmental Contract				
	8/16/09 to 8/15/10	RESEARCH			
	KOEHLER, KENNETH		STATISTICS-LAS		



August 01 - 31, 2009

86

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

\$65,725	UNIVERSITY OF MINNESOTA		410-30-23
<b>99705</b>	Answerline Services for Minnesota Extension Clients		
	7/1/09 to 6/30/11	EXTENSION/PUBLIC	
	WARNING, JEANNE	EXTENSION TO FAMILIES-EXT	
CO-PI	BEAVERS, EVELYN	EXTENSION TO FAMILIES-EXT	
\$64,039	UNIVERSITY OF ILLINOIS		400-40-43
<b>87671</b>	The Sudden Death Syndrome Research Alliance		
	3/1/09 to 2/28/10	RESEARCH	
	BHATTACHARYYA, MADAN	AGRONOMY	
CO-PI	CIANZIO, SILVIA	AGRONOMY	
CO-PI	LEANDRO, LEONOR	PLANT PATHOLOGY	
\$64,000	UNIVERSITY OF NEW MEXICO		404-20-51
<b>87240</b>	PIRE: Molecular Engineering for Conversion of Biomass-Derived Reactants to Fuels, Chemicals and Materials		
	9/1/07 to 8/31/10	RESEARCH	
	SHANKS, BRENT	CHEMICAL & BIOLOGICAL ENGINEERING	
\$60,000	IOWA EGG COUNCIL		400-41-90
<b>104622</b>	Poultry Manure Contamination		
	7/1/09 to 6/30/11	RESEARCH	
	KANWAR, RAMESHWAR	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
\$58,120	NATIONAL SCIENCE FOUNDATION		420-21-46
<b>98256</b>	Collaborative Research: Electron Transport Membranes Using Nanostructured Block Copolymer Assemblies		
	8/15/09 to 7/31/10	RESEARCH	
	JEFFRIES-EL, MALIKA	CHEMISTRY-LAS	
\$56,204	BROOKHAVEN NATIONAL LABORATORY		404-21-01
<b>98037</b>	The United States Atlas Analysis Support		
	5/18/09 to 9/30/10	RESEARCH	
	COCHRAN, JAMES	PHYSICS & ASTRONOMY-LAS	

August 01 - 31, 2009

87

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

\$51,000	UNIVERSITY OF MINNESOTA		410-30-24
<b>99253</b>	Iowa PDP Plan of Work 2009		
	6/1/09 to 5/31/12	EXTENSION/PUBLIC	
	DEWITT, JERALD	ENTOMOLOGY-EXT	
\$50,000	NATIONAL RENEWABLE ENERGY LABORATORY		404-25-41
<b>91714</b>	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
<b>93304</b>	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
<b>99545</b>	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

88

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

\$43,900	IOWA DEPARTMENT OF HUMAN SERVICES			478-20-10
<b>104199</b>	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
<b>104189</b>	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
<b>81595</b>	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
<b>97749</b>	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
<b>104051</b>	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
<b>104731</b>	Joint Appointment Agreement Sanchez			
	8/18/09 to 8/17/10	RESEARCH		
	SANCHEZ, MAYLY		PHYSICS & ASTRONOMY-LAS	

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

	\$37,501	NATIONAL SCIENCE FOUNDATION		420-20-69
<b>99519</b>		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	
	CO-PI	FOX, RODNEY	CHEMICAL & BIOLOGICAL ENGINEERING-ENGR	
	\$37,043	DEPARTMENT OF AGRICULTURE, ERS		412-45-39
<b>104167</b>		Incentives and Structure in Determining Milk Quality and Safety Attributes		
		7/30/09 to 9/30/10	RESEARCH	
		JENSEN, HELEN	ECONOMICS-AES/CALS	
	CO-PI	HENNESSY, DAVID	ECONOMICS-AES/CALS	
	CO-PI	DONG, FENGXIA	ECONOMICS-AES/CALS	
	\$35,399	UNIVERSITY OF MARYLAND		404-21-46
<b>90678</b>		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		400-20-18
<b>99390</b>		Lifetime Electrothermal Stress Management for Multi-Core Systems		
		8/1/09 to 7/31/10	RESEARCH	
		GEIGER, RANDALL	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
	CO-PI	CHEN, DEGANG	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
	\$35,000	KIRKWOOD COMMUNITY COLLEGE		404-28-03
<b>104508</b>		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	
	CO-PI	KEMIS, MARI	RESEARCH INSTITUTE FOR STUDIES IN EDUCATION-HS	

August 01 - 31, 2009

90

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

\$34,586	ADA TECHNOLOGIES				404-20-16
<b>93565</b>	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
<b>97517</b>	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
<b>104556</b>	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	
CO-PI	BROWN, PAUL			EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
\$32,073	MARSHALL COUNTY AGRICULTURAL EXTENSION DISTRICT				400-30-37
<b>104557</b>	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	
CO-PI	BROWN, PAUL			EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT	
\$32,000	SOUTH DAKOTA STATE UNIVERSITY				404-25-45
<b>98122</b>	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
<b>104565</b>	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	

August 01 - 31, 2009

91

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

\$30,000	DEPARTMENT OF AGRICULTURE, FS		412-45-74
<b>96598</b>	Association of a New Tubakia Species with Decline of Bur Oak		
	7/1/09 to 6/30/10	RESEARCH	
	HARRINGTON, THOMAS	PLANT PATHOLOGY-CALS	
\$30,000	MIDWEST DAIRY ASSOCIATION		400-40-77
<b>99590</b>	Midwest Dairy Association Equipment Reimbursement		
	1/1/09 to 12/31/09	EQUIPMENT	
	MACDONALD, RUTH	FOOD SCIENCE & HUMAN NUTRITION-AES/CALS	
\$30,000	MONSANTO COMPANY		400-30-01
<b>99820</b>	MON 79789 and Mixtures Efficacy on Soybean Sudden Death Syndrome		
	5/1/09 to 12/31/09	RESEARCH	
	PEDERSEN, PALLE	AGRONOMY-AES/CALS	
\$30,000	IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC		405-21-02
<b>104610</b>	Increasing Biomass Production and Tolerance to Salt Stress in Crops		
	8/7/09 to 8/30/10	RESEARCH	
	YIN, YANHAI	GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS	
\$30,000	DEPARTMENT OF AGRICULTURE, ARS		419-21-02
<b>104676</b>	Sca No. 58-3625-7-631-Development of Novel Maize Sequence Access and Analysis Methods for MaizeGDB		
	8/3/07 to 9/30/10	RESEARCH	
	BRENDEL, VOLKER	GENETICS, DEVELOPMENT & CELL BIOLOGY-LAS	
\$28,700	IOWA ATTORNEY GENERALS OFFICE		478-23-01
<b>97930</b>	Iowa Swine Welfare School		
	6/1/09 to 5/31/10	RESEARCH	
	MILLMAN, SUZANNE	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	
CO-PI	BUTTERS-JOHNSON, ANNA	ANIMAL SCIENCE-CALS	
CO-PI	KARRIKER, LOCKE	VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET	

August 01 - 31, 2009

92

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

\$27,500	DEPARTMENT OF AGRICULTURE, APHIS		412-05-05
<b>99795</b>	Viral Hemorrhagic Septicemia Education Website Maintenance		
	4/1/09 to 3/31/10	EXTENSION/PUBLIC	
	DVORAK, GLENDA	CENTER FOR FOOD SECURITY & PUBLIC HEALTH-VET	
CO-PI	ROTH, JAMES	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
\$27,000	UNIVERSITY OF KENTUCKY		410-30-40
<b>97131</b>	CYFERnet Early Childhood Editorial Board		
	6/1/09 to 5/31/10	EXTENSION/PUBLIC	
	OESTERREICH, LESIA	HUMAN DEVELOPMENT & FAMILY STUDIES-EXT	
\$26,206	MUSCATINE COUNTY AGRICULTURAL EXTENSION DISTRICT		400-30-04
<b>104567</b>	Expanding 4-H Youth Development in Muscatine County		
	9/1/09 to 6/30/11	EXTENSION/PUBLIC	
	MORRIS, JOHN	EXTENSION 4-H YOUTH DEVELOPMENT-EXT	
\$22,439	DEPARTMENT OF AGRICULTURE, ARS		419-40-04
<b>104056</b>	Development of GEM Line Starch to Improve Nutritional Value and Biofuel Production		
	7/29/09 to 8/31/10	RESEARCH	
	JANE, JAY-LIN	FOOD SCIENCE & HUMAN NUTRITION-AES/CALS	
\$21,800	BROOKHAVEN NATIONAL LABORATORY		404-21-03
<b>99693</b>	ATLAS/Omega Group MOU		
	8/19/09 to 8/31/10	RESEARCH	
	COCHRAN, JAMES	PHYSICS & ASTRONOMY-LAS	
\$20,219	PEACE CORPS REGIONAL OFFICE		428-18-05
<b>99313</b>	Peace Corps Iowa State University Strategy Contract 2009-10		
	8/14/09 to 5/14/10	DEPT/ADMIN SUPPORT	
	NELSON, TREVOR	STUDY ABROAD CENTER-PROV	

August 01 - 31, 2009

93

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

\$20,000	DEPARTMENT OF AGRICULTURE, FS	412-45-63
<b>99847</b>	Getting Conservation Buffers on the Ground-Equipping Natural Resource Professionals for Multi-Objective/Multi-Functional Landscape Design and Planning 8/5/09 to 8/31/12 RESEARCH FLORA, CORNELIA SOCIOLOGY-AES/CALS	
\$20,000	NATIONAL SCIENCE FOUNDATION	420-20-36
<b>104328</b>	The Fifth United States-Japan Workshop on Wind Engineering 10/1/09 to 9/30/10 MISCELLANEOUS SARKAR, PARTHA AEROSPACE ENGINEERING-ENGR	
\$19,000	SOUTHERN ILLINOIS UNIVERSITY	400-42-19
<b>99123</b>	Managing Frogeye Leaf Spot and Charcoal Rot in the North Central Region 5/27/09 to 2/28/10 RESEARCH YANG, XIAO PLANT PATHOLOGY-AES/CALS	
\$18,219	DEERE AND COMPANY	400-65-24
<b>104528</b>	Extensible VE Tools for Improved Product Design 7/1/09 to 10/31/09 RESEARCH BRYDEN, KENNETH MECHANICAL ENGINEERING-ENGR CO-PI MCCORKLE, DOUGLAS VIRTUAL REALITY APPLICATIONS CENTER - IPRT-VPR/ED	
\$17,250	MONSANTO COMPANY	400-44-36
<b>104086</b>	Monsanto Soybean Yield Trial 5/15/09 to 9/15/09 RESEARCH ONEAL, MATTHEW ENTOMOLOGY-AES/CALS	
\$16,500	DEPARTMENT OF AGRICULTURE, APHIS	412-05-06
<b>97420</b>	Compendium of Veterinary Vaccines for Transboundary Diseases 4/1/09 to 3/31/10 MISCELLANEOUS ROTH, JAMES VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	



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

	\$16,000	ALLIANT ENERGY		400-42-14
<b>98353</b>		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	
	CO-PI	BIRRELL, STUART	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
	CO-PI	ANEX, ROBERT	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS	
	CO-PI	BROWN, ROBERT	MECHANICAL ENGINEERING-ENGR	
	\$16,000	PIONEER HI-BRED INTERNATIONAL		400-48-70
<b>98864</b>		Corn Pests Research Project		
		4/28/09 to 4/27/10	RESEARCH	
		GASSMANN, AARON	ENTOMOLOGY-AES/CALS	
	CO-PI	WEBER, PATRICK	ENTOMOLOGY-AES/CALS	
	\$15,000	CITY OF AMES		400-60-53
<b>104200</b>		City of Ames-EPRC		
		7/1/09 to 6/30/10	RESEARCH	
		BAIRD, TOM	ELECTRICAL & COMPUTER ENGINEERING-ENGR	
	\$13,898	UNIVERSITY OF IOWA		475-40-17
<b>104422</b>		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		400-23-05
<b>99248</b>		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	
	CO-PI	PETERSEN, CHRISTINE	VETERINARY PATHOLOGY-VET	
	CO-PI	BELLAIRE, BRYAN	VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET	
	CO-PI	EVANS, LAWRENCE	VETERINARY CLINICAL SCIENCES-VET	

August 01 - 31, 2009

95

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

\$12,000	NATIONAL SCIENCE FOUNDATION	420-17-09
<b>98896</b>	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	
\$11,800	NATIONAL SCIENCE FOUNDATION	420-20-32
<b>99237</b>	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	
CO-PI	KIM, GAP-YONG MECHANICAL ENGINEERING-ENGR	
CO-PI	ZOU, QINGZE MECHANICAL ENGINEERING-ENGR	
\$10,000	NATIONAL SCIENCE FOUNDATION	420-21-58
<b>85121</b>	FRG: Collaborative Research: Algorithmic Randomness	
	7/1/09 to 6/30/10 RESEARCH	
	LUTZ, JACK COMPUTER SCIENCE	
\$10,000	IOWA DEPARTMENT OF EDUCATION	472-28-40
<b>104160</b>	Iowa Core Curriculum for Teacher Education	
	6/1/09 to 8/31/09 INSTRUCTION/TRAINING	
	WHALEY, DAVID HUMAN SCIENCES ADMINISTRATION-HS	
\$10,000	DEPARTMENT OF AGRICULTURE, FS	412-45-08
<b>104193</b>	Characterization of a New Walnut Yellow-Like Disease	
	8/1/09 to 7/31/10 RESEARCH	
	HARRINGTON, THOMAS PLANT PATHOLOGY-AES/CALS	
\$9,545	UNITED STATES-ISRAEL BINATIONAL SCIENCE FOUNDATION	400-60-13
<b>84800</b>	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	

August 01 - 31, 2009

96

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

\$9,299	IOWA DEPARTMENT OF NATURAL RESOURCES			473-44-07
<b>104533</b>	Determining Historic Water Quality Conditions in Iowa Natural Lakes			
	5/1/08 to 6/30/11	RESEARCH		
	DOWNING, JOHN		ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-AES/CALS	
\$8,934	NUTRA-FLO PROTEIN AND BIOTECH PRODUCTS, INC			400-75-12
<b>104605</b>	Evaluation of Nutra-Flo Protein and Biotech Products for Phase Two Starter Diets			
	8/1/09 to 5/31/10	RESEARCH		
	PATIENCE, JOHN		ANIMAL SCIENCE-AES/CALS	
	CO-PI MUFF, BRIAN		INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VP	
\$8,800	IOWA ARTS COUNCIL			476-29-01
<b>98994</b>	Incision			
	7/1/09 to 6/30/10	RESEARCH		
	HERRNSTADT, STEVEN		ART & DESIGN-DSN	
\$7,000	SYNGENTA			400-44-34
<b>104542</b>	Soybean Aphid Management			
	7/31/09 to 12/31/10	RESEARCH		
	ONEAL, MATTHEW		ENTOMOLOGY-AES/CALS	
\$6,930	DEPARTMENT OF AGRICULTURE, ARS			419-40-45
<b>96877</b>	Research Support Agreement			
	10/1/08 to 9/30/09	RESEARCH		
	LAMKEY, KENDALL		AGRONOMY-AES	
\$6,372	IOWA DEPARTMENT OF PUBLIC HEALTH			478-30-18
<b>104364</b>	School Dental Screening Record Review			
	7/1/09 to 6/30/10	EXTENSION/PUBLIC		
	GLENN, SHERRY		EXTENSION TO FAMILIES-EXT	
	CO-PI VANGINKEL, MARGARET		EXTENSION TO FAMILIES-EXT	

August 01 - 31, 2009

97

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

\$5,578	IOWA COLLEGE STUDENT AID COMMISSION			478-14-01
<b>96568</b>	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			410-23-06
<b>90615</b>	Viral Hemorrhagic Septicemia, NADF- Wisconsin			
	9/1/08 to 8/31/10	EXTENSION/PUBLIC		
	DVORAK, GLENDA	CENTER FOR FOOD SECURITY & PUBLIC HEALTH		
\$5,394	DEPARTMENT OF AGRICULTURE, ARS			419-23-35
<b>96903</b>	Research Support Agreement			
	10/1/08 to 9/30/09	RESEARCH		
	ANDREASEN, CLAIRE	VETERINARY PATHOLOGY-VET		
\$5,000	SYNGENTA			400-44-35
<b>104541</b>	Soybean Aphid Management			
	7/31/09 to 12/31/10	RESEARCH		
	ONEAL, MATTHEW	ENTOMOLOGY-AES/CALS		
\$4,000	DEPARTMENT OF AGRICULTURE, ARS			419-40-36
<b>97282</b>	Research Support Agreement			
	10/1/08 to 9/30/09	RESEARCH		
	BAUM, THOMAS	PLANT PATHOLOGY-AES		
\$4,000	NATIONAL SCIENCE FOUNDATION			420-60-01
<b>98530</b>	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		

August 01 - 31, 2009

98

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

\$4,000	DEPARTMENT OF EDUCATION			432-57-24
<b>99499</b>	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			400-75-33
<b>104643</b>	Purifying Food-Grade Alcohol for Vodka Production			
	8/10/09 to 10/31/09	RESEARCH		
	KOZIEL, JACEK	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS		
CO-PI	CAI, LINGSHUANG	AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES/CALS		
CO-PI	MUMM, LYNNE	INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY ADMINISTRATION-VPR/ED		
\$3,122	MICHIGAN STATE UNIVERSITY			410-23-05
<b>90563</b>	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			419-40-52
<b>98650</b>	Research Support Agreement			
	3/1/09 to 9/30/09	RESEARCH		
	LEWIS, LES	ENTOMOLOGY-AES/CALS		
\$1,080	DEPARTMENT OF AGRICULTURE, ARS			419-23-36
<b>96923</b>	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			419-40-51
<b>97278</b>	Research Support Agreement			
	10/1/08 to 9/30/09	RESEARCH		
	BEITZ, DONALD	ANIMAL SCIENCE-AES		

August 01 - 31, 2009

99

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

\$650 DEPARTMENT OF EDUCATION

432-57-22

**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

472-30-19

**87812** 2007 Team Nutrition Training Grant

9/30/07 to 9/30/09 EXTENSION/PUBLIC

STROHBEHN, CATHERINE APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT

CO-PI LITCHFIELD, RUTH FOOD SCIENCE & HUMAN NUTRITION