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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$2,493,915 NATIONAL INSTITUTES OF HEALTH, NIDA
Partnership Model for Diffusion of Proven Prevention

9/1/08 to 8/31/09 RESEARCH
SPOTH, RICHARD
REDMOND, CLEVE
CO-PI

$981,100 DEPARTMENT OF ENERGY
Mesoporous Silica-Supported Metal Oxide-Promoted RH Nanocatalysts for Selective Production of Ethanol from Syngas

10/1/08 to 9/30/09 RESEARCH
KRAUS, GEORGE
LIN, SHANG-YI
SADOW, AARON
BROWN, ROBERT
PRUSKI, MAREK
SATRIO, JUSTINUS
VIGIL, DENNIS
CO-PI

$938,613 DEPARTMENT OF ENERGY
Operating and Management Support for the Ames Laboratory

1/1/07 to 9/30/08 RESEARCH
KING, ALEXANDER
AMES LABORATORY

$567,721 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Study of Extreme Winds Near Ground and Their Damaging Effects on the Built Environment

9/1/08 to 8/31/09 RESEARCH
SARKAR, PARTHA
HAAN, FREDERICK
HU, HUI
DAYAL, VINAY
GALLUS, WILLIAM
CO-PI
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$512,975 NATIONAL SCIENCE FOUNDATION
TRMS: High-Throughput Functional Analysis of Soybean Defense Pathways by Virus-Induced Gene Silencing

9/1/08 to 8/31/09 RESEARCH
WHITHAM, STEVEN
HILL, JOHN
BAUM, THOMAS

$500,000 DEPARTMENT OF AGRICULTURE, CSREES
Rural Community Resiliency: Role of the Retail Sector in Easing Sudden and Slow Motion Economic Shocks

9/1/08 to 8/31/11 RESEARCH
NIEHM, LINDA
LARSEN, MICHAEL
ANDERSON, DIANNE

$484,813 NATIONAL INSTITUTES OF HEALTH, NIMH
Resiliency and Vulnerability in African American Parents

8/1/08 to 7/31/09 RESEARCH
CUTRONA, CAROLYN
RUSSELL, DANIEL

$447,253 DEPARTMENT OF AGRICULTURE
Human Nutrition, IA

9/1/08 to 8/31/09 RESEARCH
BIRT, DIANE

$400,000 DEPARTMENT OF AGRICULTURE
The Long-Distance Signaling Pathway that Controls Tuber Formation

9/1/08 to 8/31/12 RESEARCH
HANNAPEL, DAVID
RAO, ARAGULA
August 01 - 31, 2008

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$390,000 NATIONAL SCIENCE FOUNDATION
Phase Behaviors and Nucleation Kinetics of Protein Solutions

9/1/08 to 8/31/11 RESEARCH
SONG, XUEYU CHEMISTRY

$383,187 CENTERS FOR DISEASE CONTROL AND PREVENTION
Iowa Initiative for Healthier Schools and Student Wellness

8/25/08 to 8/24/09 EXTENSION/PUBLIC
THOMAS, KATHERINE KINESIOLOGY-HS
FRANKE, WARREN KINESIOLOGY-HS
LITCHFIELD, RUTH FOOD SCIENCE & HUMAN NUTRITION-HS
STROHBEHN, CATHERINE APPAREL, EDUCATIONAL STUDIES & HOSPITALITY MANAGEMENT-HS

$366,683 NATIONAL SCIENCE FOUNDATION
Thin Film Silicon Solar Cells on Plastic Substrates

8/1/08 to 7/31/11 RESEARCH
DALAL, VIKRAM ELECTRICAL & COMPUTER ENGINEERING-ENGR
BISWAS, RANA ELECTRICAL & COMPUTER ENGINEERING-ENGR

$337,333 DEPARTMENT OF EDUCATION
Iowa State University Trio Educational Talent Search

9/1/08 to 8/31/09 INSTRUCTION/TRAINING
AGYEMAN, JANE ENROLLMENT SERVICES-VPSA

$331,000 DEPARTMENT OF EDUCATION
National K-12 Foreign Language Resource Center

8/15/08 to 8/14/09 INSTRUCTION/TRAINING
ROSENBUSCH, MARCIA CURRICULUM & INSTRUCTION

$319,467 DEPARTMENT OF AGRICULTURE, CSREES
Biotechnology Test Production, IA: Advanced Corn Biorefineries

9/1/08 to 8/31/09 RESEARCH
GLATZ, CHARLES CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
JOHNSON, LAWRENCE FOOD SCIENCE & HUMAN NUTRITION-CALS
August 01 - 31, 2008

I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$319,467 DEPARTMENT OF AGRICULTURE, CSREES
Biotechnology Test Production, IA: Advanced Corn Biorefineries

9/1/08 to 8/31/09 RESEARCH
CO-PI WANG, KAN AGRONOMY-CALS
CO-PI POMETTO, ANTHONY FOOD SCIENCE & HUMAN NUTRITION-CALS

$315,000 CONOCOPHILLIPS COMPANY
Biofuels Research Program (2008)

1/1/08 to 12/31/08 RESEARCH
BROWN, ROBERT MECHANICAL ENGINEERING-ENGR
HARGROVE, MARK BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-LAS
SUNG, SHIHU CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
MCCLELLAND, JOHN INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY-VPR/ED
MEYER, TERRENCE MECHANICAL ENGINEERING-ENGR
PHILLIPS, GREGORY VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET
SHANKS, BRENT CHEMICAL & BIOLOGICAL ENGINEERING-ENGR
HORTON, ROBERT AGRONOMY-AES
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-ENGR
BOBIK, THOMAS BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES
LIEBMAN, MATTHEW AGRONOMY-AES
BIRRELL, STUART AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES
DUFFY, MICHAEL ECONOMICS-AES
HEINDEL, THEODORE MECHANICAL ENGINEERING-ENGR
NORTON, GLENN CENTER FOR SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES - IPRT-VPR/ED
NIKOLAU, BASIL BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY-AES

$297,138 NATIONAL SCIENCE FOUNDATION
REU Site: Mathematics and Computing Research Experiences for Undergraduates at Iowa State University

9/1/08 to 8/31/13 INSTRUCTION/TRAINING
PETERS, JUSTIN MATHEMATICS
HOGBEN, LESLIE MATHEMATICS
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$294,381 NATIONAL INSTITUTES OF HEALTH
Mechanisms of Manganese Neurotoxicity
8/1/08 to 7/31/09 RESEARCH
KANTHASAMY, ANUMANTHA BIOMEDICAL SCIENCES

$289,841 NATIONAL SCIENCE FOUNDATION
Development of an Electrostatic Levitation Facility for Materials Research and Education
9/1/08 to 8/31/10 RESEARCH
GOLDMAN, ALAN PHYSICS & ASTRONOMY-LAS
CO-PI PROZOROV, RUSLAN PHYSICS & ASTRONOMY-LAS
CO-PI NAPOLITANO, RALPH MATERIALS SCIENCE & ENGINEERING-ENGR

$277,797 DEPARTMENT OF AGRICULTURE, CSREES
Food and Fuel Initiative: Iowa
8/15/08 to 8/14/09 RESEARCH
MISRA, MANJIT AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$269,964 NATIONAL INSTITUTES OF HEALTH
Enzymatic Cyclization to Labdanes and Related Diterpenoid Natural Products
8/1/08 to 7/31/09 RESEARCH
PETERS, REUBEN BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY

$243,100 DEPARTMENT OF AGRICULTURE, APHIS
Multi-Regional PRRS Antibody Prevalence Survey in Market Swine–Part II
8/1/08 to 12/31/08 MISCELLANEOUS
MCKEAN, JAMES VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$242,713 NATIONAL SCIENCE FOUNDATION
Fault-Tolerant Cooperative Relaying in Large-Scale Wireless Networks
9/1/08 to 8/31/11 RESEARCH
KIM, SANG ELECTRICAL & COMPUTER ENGINEERING-ENGR
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$228,264 NATIONAL SCIENCE FOUNDATION
NECO: Robust, Delay-Tolerant Sketches for Aggregating Sensor Data Streams
9/1/08 to 8/31/11 RESEARCH
TIRTHAPURA, SRIKANTA ELECTRICAL & COMPUTER ENGINEERING-ENGR

$223,606 NATIONAL INSTITUTES OF HEALTH
Control of Cap-Independent Translation by a Viral 3' UTR
8/1/08 to 7/31/09 RESEARCH
MILLER, WYATT PLANT PATHOLOGY

$215,700 SOUTH DAKOTA STATE UNIVERSITY
GEPR: Functional Genomics of Bud Endodormancy Induction in Grapevine
9/1/06 to 8/31/09 RESEARCH
DICKERSON, JULIE ELECTRICAL & COMPUTER ENGINEERING

$178,923 IOWA DEPARTMENT OF MANAGEMENT
New Staff Orientation for Child Care Center Programs, 2008-2009
7/1/08 to 6/30/09 EXTENSION/PUBLIC
OESTERREICH, LESIA HUMAN DEVELOPMENT & FAMILY STUDIES-EXT

$175,900 DEPARTMENT OF AGRICULTURE
IPA Assignment for Scott Hurd
2/12/08 to 1/20/09 MISCELLANEOUS
HURD, HOWARD VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$171,504 DEPARTMENT OF EDUCATION
Graduate Assistantship in Areas of National Needs
8/14/08 to 8/13/09 RESEARCH
SOMANI, ARUN ELECTRICAL & COMPUTER ENGINEERING
August 01 - 31, 2008

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

### $160,000  DEPARTMENT OF ENERGY
- Regulation of Chloroplast Biogenesis: The Immutans Mutant of Arabidopsis
  - 9/1/08 to 8/31/09  RESEARCH
  - RODERMEL, STEVEN  GENETICS, DEVELOPMENT & CELL BIOLOGY

### $160,000  NATIONAL SCIENCE FOUNDATION
- Collaborative Research: CSR-PSCE, SM: Memory Thermal Management for Multi-Core Systems
  - 9/1/08 to 8/31/11  RESEARCH
  - ZHANG, ZHAO  ELECTRICAL & COMPUTER ENGINEERING-ENGR

### $157,732  NATIONAL INSTITUTES OF HEALTH
- Drugcarts to Combat Drug Resistance
  - 9/1/08 to 8/31/09  RESEARCH
  - NILSEN-HAMILTON, MARIT  BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY
  - KRAUS, GEORGE  CHEMISTRY

### $150,000  NATIONAL SCIENCE FOUNDATION
- Bioinformatics and Computational Systems Biology Summer Institute at Iowa State University
  - 8/15/06 to 7/31/09  INSTRUCTION/TRAINING
  - JERNIGAN, ROBERT  BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY
  - BRENDEL, VOLKER  GENETICS, DEVELOPMENT & CELL BIOLOGY
  - DICKERSON, JULIE  ELECTRICAL & COMPUTER ENGINEERING
  - DORMAN, KARIN  GENETICS, DEVELOPMENT & CELL BIOLOGY
  - HONAVAR, VASANT  COMPUTER SCIENCE

### $150,000  NATIONAL SCIENCE FOUNDATION
- CT-ER: Detecting Click Fraud in Pay-Per-Click Streams of Online Advertising Networks
  - 9/1/08 to 8/31/10  RESEARCH
  - GUAN, YONG  ELECTRICAL & COMPUTER ENGINEERING-ENGR
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$150,000 KIRKWOOD COMMUNITY COLLEGE
Evaluation of the Community College Summit Initiative and Community College Initiative for Egypt

2/1/07 to 12/31/09 RESEARCH
KEMIS, MARI
RESEARCH INSTITUTE FOR STUDIES IN EDUCATION- HS

$149,999 NATIONAL SCIENCE FOUNDATION
Numeric Computing: A High-Order Kinetic-Based Quadrature Moment Method for Gas-Particle Flows

9/1/08 to 8/31/10 RESEARCH
WANG, ZHI
AEROSPACE ENGINEERING-ENGR
FOX, RODNEY
CHEMICAL & BIOLOGICAL ENGINEERING-ENGR

$149,324 NATIONAL SCIENCE FOUNDATION
Biofuels and the Hydrologic Cycle

8/15/08 to 7/31/09 RESEARCH
ANEX, ROBERT
AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS
ARRITT, RAYMOND
AGRONOMY-CALS
GASSMAN, PHILIP
CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES
JHA, MANOJ
CENTER FOR AGRICULTURAL & RURAL DEVELOPMENT-AES
GELDER, BRIAN
AGRONOMY-CALS

$145,500 UNIVERSITY OF COLORADO
Development, Verification and Validation of Multiphase Models for Polydisperse Flow

5/18/07 to 5/17/09 RESEARCH
SUBRAMANIAM, SHANKAR
MECHANICAL ENGINEERING
FOX, RODNEY
CHEMICAL & BIOLOGICAL ENGINEERING

$125,843 NATIONAL SCIENCE FOUNDATION
CSR-DMSS, SM: Design and Evaluation of a Scalable Meta-Event Dissemination System

9/1/08 to 8/31/09 RESEARCH
TIRTHAPURA, SRIKANTA
ELECTRICAL & COMPUTER ENGINEERING-ENGR
SOMANI, ARUN
ELECTRICAL & COMPUTER ENGINEERING-ENGR
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I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$125,200 NATIONAL SCIENCE FOUNDATION
CPA - ACR: Parallel Algorithms and Software for Large Scale Microarry Data Analysis and Gene Network Inference

8/1/08 to 7/31/10 RESEARCH
ALURU, SRINIVAS ELECTRICAL & COMPUTER ENGINEERING
ALURU, MANEESHA ELECTRICAL & COMPUTER ENGINEERING
NETTLETON, DANIEL STATISTICS

$120,000 IOWA DEPARTMENT OF TRANSPORTATION
Infrastructure Impacts of Iowa's Changing Economy IHRB-07-03

8/15/08 to 1/15/10 RESEARCH
GKRITZA, KONSTANTINA CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
SMITH, DUANE CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$113,128 MICHIGAN STATE UNIVERSITY
NCRAC Administrative Account

8/1/08 to 7/31/09 EXTENSION/PUBLIC
MORRIS, JOSEPH NATURAL RESOURCE ECOLOGY & MANAGEMENT-CALS

$110,000 NATIONAL SCIENCE FOUNDATION
Collaborative Research: CSR-DMSS: Building On-Road Real-Time Information Systems for Driving Safety Atop VANET-WSM Symbiosis

9/1/08 to 8/31/10 RESEARCH
ZHANG, WENSHENG COMPUTER SCIENCE-LAS

$109,394 DEPARTMENT OF ENERGY
Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a High-Resolution Regional Climate Modeling System

8/15/08 to 8/14/09 RESEARCH
GUTOWSKI, WILLIAM GEOLOGICAL & ATMOSPHERIC SCIENCES

$100,076 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Modeling the Diffuse Galactic Gamma-Ray Emission

8/15/03 to 9/30/09 RESEARCH
POHL, MARTIN PHYSICS & ASTRONOMY
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$100,000 MONSANTO FUND
Improving Nutrition Through Livestock Rearing and School Gardens
8/6/08 to 8/5/10 EXTENSION/PUBLIC
ROTHSCHILD, MAX ANIMAL SCIENCE-CALS
NONNECKE, GAIL HORTICULTURE-CALS
MAZUR, ROBERT SOCIOMETRY-LAS

$100,000 DEPARTMENT OF AGRICULTURE, ARS
Susceptibility of Cattle with the E211K PRNP Allele to BSE
8/14/08 to 7/31/13 RESEARCH
WEST, JAMES VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$96,000 NATIONAL SCIENCE FOUNDATION
Collaborative Research: Molecular Structure and Phase Separation Behavior of Novel Phosphate-Glass/Polymer Hybrids Studied by Advanced Solid-State NMR and Rheometry Methods
8/1/08 to 7/31/11 RESEARCH
SCHMIDT-ROHR, KLAUS CHEMISTRY

$95,000 DEPARTMENT OF ENERGY
A Fast Topological Trigger for Real Time Analysis of Nanosecond Time Scale Phenomena: Opening the Gamma Ray Window to Our Universe
9/1/08 to 8/31/09 RESEARCH
KRENNRICH, FRANK PHYSICS & ASTRONOMY

$92,711 UNIVERSITY OF IOWA
Integration of Analysis Methods and Development of Analysis Plan
1/28/08 to 8/27/09 RESEARCH
HALLMARK, SHAUNA CIVIL, CONSTRUCTION & ENVIRONMENTAL ENGINEERING
HAWKINS, NEAL CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$90,000 UNIVERSITY OF MICHIGAN
Video Game Violence
6/1/08 to 5/31/09 RESEARCH
ANDERSON, CRAIG PSYCHOLOGY
GENTILE, DOUGLAS PSYCHOLOGY
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

<table>
<thead>
<tr>
<th>Grant Number</th>
<th>Grant Source</th>
<th>Grant Period</th>
<th>Grant Amount</th>
<th>Grant Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>NATIONAL INSTITUTES OF HEALTH</td>
<td>2/1/08 to 1/31/09</td>
<td>$83,313</td>
<td>Research on Preterm Birth, Lung Innate Immunity and RSV. Co-PIs: Ackermann, Mark; Brockus, Charles W; Evans, Richard.</td>
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<tr>
<td>430-23-28</td>
<td>CITY OF AMES PUBLIC WORKS DEPARTMENT</td>
<td>5/1/08 to 12/31/10</td>
<td>$80,262</td>
<td>College Creek Restoration. Co-PIs: Wagner, Mimi; Johnston, Douglas.</td>
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<tr>
<td>400-29-08</td>
<td>ROLLS-ROYCE CORPORATION</td>
<td>1/2/08 to 5/29/09</td>
<td>$80,000</td>
<td>Development of Precious Metal Modified Ni-Base Superalloys. Co-PI: Gleeson, Brian.</td>
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<tr>
<td>404-20-10</td>
<td>DEPARTMENT OF AGRICULTURE, ARS</td>
<td>8/3/07 to 9/30/10</td>
<td>$80,000</td>
<td>Development of Novel Maize Sequence Access and Analysis Methods for MaizeGDB. Co-PI: Brendel, Volker.</td>
</tr>
<tr>
<td>419-21-02</td>
<td>WINNESHEIK COUNTY AGRICULTURAL EXTENSION DISTRICT</td>
<td>4/1/08 to 3/31/09</td>
<td>$79,511</td>
<td>Northeast Iowa Food and Fitness Initiative. Co-PIs: Schrandt-Prouty, Mary; Ranum, Brenda.</td>
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<tr>
<td>400-33-32</td>
<td>NATIONAL SCIENCE FOUNDATION</td>
<td>8/1/08 to 7/31/09</td>
<td>$76,000</td>
<td>Materials World Network: Designed Preparation, Characterization, Magnetic Properties and Quantum Chemical Calculations of New Complex Itinerant Magnets, Ti(8-x)M(3+x)Ru(18-y)Rh(y)B. Co-PI: Miller, Gordon.</td>
</tr>
</tbody>
</table>
## I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

<table>
<thead>
<tr>
<th>Grantor</th>
<th>Description</th>
</tr>
</thead>
</table>
| **$75,000** | IOWA DEPARTMENT OF TRANSPORTATION  
Development of Non-Petroleum Based Binders for Use in Flexible Pavements |
| **$73,500** | VANDERBILT UNIVERSITY  
Manganese-Induced Upregulation of Prion Proteins and Its Relevance to Prion Diseases |
| **$66,960** | IOWA DEPARTMENT OF HUMAN SERVICES  
Service Training Contract Amendment 1 |
| **$66,122** | IOWA DEPARTMENT OF HUMAN SERVICES  
Iowa Department of Human Services, Intergovernmental Contract, Amendment 2 |
| **$60,406** | DEPARTMENT OF AGRICULTURE, ERS  
A Model for the Welfare Analysis of United States Ethanol Policies |
| **$60,274** | IOWA BEEF INDUSTRY COUNCIL  
Influence of High Oxygen Packaging Systems and Enhancement on Tenderness Development and Appearance of Beef Cuts from the Round |

**Grantor**
- IOWA DEPARTMENT OF TRANSPORTATION
- VANDERBILT UNIVERSITY
- IOWA DEPARTMENT OF HUMAN SERVICES
- DEPARTMENT OF AGRICULTURE, ERS
- IOWA BEEF INDUSTRY COUNCIL

**Amount**
- $75,000
- $73,500
- $66,960
- $66,122
- $60,406
- $60,274

**Dates**
- 8/1/08 to 7/31/09
- 4/15/08 to 1/31/09
- 7/1/08 to 6/30/09
- 8/16/08 to 8/15/09
- 8/7/08 to 1/15/10
- 9/1/08 to 8/31/09

**Projects**
- Development of Non-Petroleum Based Binders for Use in Flexible Pavements
- Manganese-Induced Upregulation of Prion Proteins and Its Relevance to Prion Diseases
- Service Training Contract Amendment 1
- Iowa Department of Human Services, Intergovernmental Contract, Amendment 2
- A Model for the Welfare Analysis of United States Ethanol Policies
- Influence of High Oxygen Packaging Systems and Enhancement on Tenderness Development and Appearance of Beef Cuts from the Round

**Research Areas**
- CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
- BIOMEDICAL SCIENCES

**Researchers**
- WILLIAMS, R.
- KANTHASAMY, ANUMANTHA
- LEMPIER, JACOBUS
- KOEHLER, KENNETH
- MOSCHINI, GIANCARLO
- LONERGAN, STEVEN
- LONERGAN, ELISABETH
- SEBRANEK, JOSEPH

**Grant Numbers**
- 474-17-14
- 404-23-05
- 470-28-23
- 470-21-04
- 412-45-05
- 400-44-78
I I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$60,000  CORNELL UNIVERSITY
National Beef Cattle Evaluation Consortium
7/1/08  to  6/30/09  RESEARCH
GARRICK, DORIAN  ANIMAL SCIENCE-AES

$60,000  UNITED SOYBEAN BOARD
Soy Protein Plastics Formulation Development to Reduce Water Solubility
9/1/08  to  8/31/09  RESEARCH
GREWELL, DAVID  AGRICULTURAL & BIOSYSTEMS ENGINEERING-AES
KESSLER, MICHAEL  MATERIALS SCIENCE & ENGINEERING-ENGR

$60,000  IOWA DEPARTMENT OF TRANSPORTATION
A New Implementation of the Incident Location Tool
3/1/07  to  9/30/09  RESEARCH
SOULEYRETTE, REGINALD  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
GIESEMAN, DANIEL  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
NAMBISAN, SHASHI  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$58,067  HENRY COUNTY EMPOWERMENT BOARD
Project Reach
7/1/08  to  6/30/09  EXTENSION/PUBLIC
HUNT, LOIS  EXTENSION TO FAMILIES-EXT
SMITH, JANET  EXTENSION TO FAMILIES-EXT

$56,775  DREXEL UNIVERSITY
Remote Non-Destructive Testing and Measurement of Large-Scale Power Systems
11/30/07  to  11/30/08  RESEARCH
AJJARAPU, VENKATARAMANA  ELECTRICAL & COMPUTER ENGINEERING

$56,067  ENVIROTECH SYSTEMS, INC
On-Site Pilot Demonstration of the Static Granular Bed Reactor at Tulare, CA
8/1/08  to  2/1/09  RESEARCH
ELLIS, TIMOTHY  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$55,902  BOEING COMPANY
Metallurgical Assessment, Modeling, and Characterization of Aluminum and Titanium Alloys for Joinable, High Strength Aluminum Alloy Development and Affordable Super Fine-Grained Titanium Alloy Development
9/27/07  to  12/19/08  RESEARCH
RAJAN, KRISHNA  MATERIALS SCIENCE & ENGINEERING-ENGR

$54,000  MINISTRY OF EDUCATION AND TRAINING
Vietnam Overseas Scholarship Program
9/1/08  to  8/31/10  FELLOWSHIP
HOLGER, DAVID  GRADUATE COLLEGE-PROV

$53,870  DEPARTMENT OF AGRICULTURE, FAS
Serbia and Montenegro SPS Technical Assistance Food
8/31/05  to  12/30/09  INSTRUCTION/TRAINING
UHLENHOPP, ELDON  VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE-VET

$50,000  OFFICE OF NAVAL RESEARCH
Three Dimensional Interactive Microstructural Evolution Tool - iMET-3D: Data Mining and Analysis
12/5/05  to  3/31/09  RESEARCH
RAJAN, KRISHNA  MATERIALS SCIENCE & ENGINEERING

$50,000  IOWA DEPARTMENT OF ECONOMIC DEVELOPMENT
IT Adventures Programs
12/20/07  to  12/31/09  INSTRUCTION/TRAINING
JACOBSON, DOUG  ELECTRICAL & COMPUTER ENGINEERING-ENGR

$50,000  NATIONAL SCIENCE FOUNDATION
Collaborative Research: CT-M: Hardware Containers for Software Components-Detection and Recovery at the Hardware/Software Interface
1/1/09  to  12/31/09  RESEARCH
ZAMBRENO, JOSEPH  ELECTRICAL & COMPUTER ENGINEERING-ENGR
August 01 - 31, 2008

II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$50,000 NATIONAL SCIENCE FOUNDATION
Collaborative Research: CSR-PSCE, TM: Effective Resource Sharing and Coordination Inside Multicore Processors for High Throughput Computing
9/1/08 to 8/31/09 RESEARCH
ZHANG, ZHAO ELECTRICAL & COMPUTER ENGINEERING-ENGR

$50,000 IOWA DEPARTMENT OF TRANSPORTATION
Bridge Rails and Approach Railing for Low-Volume Roads in Iowa
8/1/08 to 7/31/09 RESEARCH
PHARES, BRENT CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
HANS, ZACHARY CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$50,000 IOWA DEPARTMENT OF TRANSPORTATION
Bremer County Project
7/18/08 to 4/30/10 RESEARCH
PHARES, BRENT CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$50,000 IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
Open Feedlot Water Quality Research
7/1/08 to 6/30/09 RESEARCH
BURNS, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT
MOODY, LARA AGRICULTURAL & BIOSYSTEMS ENGINEERING-EXT

$49,990 SYNGENTA
Impact of MIR162 and Seed Treatment on Quality of Grain for Ethanol Production
7/20/08 to 7/13/09 RESEARCH
MUNKVOLD, GARY PLANT PATHOLOGY-CALS

$49,391 NATIONAL PORK BOARD
Identifying Genes Associated with Salmonella Shedding to Increase Pork Safety Through Improved Genetic Resistance
7/30/08 to 8/1/09 RESEARCH
TUGGLE, CHRIS ANIMAL SCIENCE
MCKEAN, JAMES VETERINARY DIAGNOSTIC & PRODUCTION ANIMAL MEDICINE
### I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

<table>
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<tr>
<th>Project ID</th>
<th>Date Range</th>
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<td>453-40-05</td>
<td>August 01 - 31, 2008</td>
<td>NATIONAL PORK BOARD</td>
<td>Identifying Genes Associated with Salmonella Shedding to Increase Pork Safety Through Improved Genetic Resistance</td>
<td>DEKKERS, JACK ANIMAL SCIENCE</td>
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<td>453-30-02</td>
<td>5/1/08 to 12/31/08</td>
<td>NATIONAL PORK BOARD</td>
<td>Development of Benchmarks to Assess the Local Economic Impact of Pork Production</td>
<td>MABRY, JOHN HOGBERG, MAYNARD STALDER, KENNETH ANIMAL SCIENCE-CALS</td>
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<td>404-17-15</td>
<td>6/3/08 to 1/31/13</td>
<td>FLORIDA STATE UNIVERSITY</td>
<td>Taking the Lead in Community Wellness: Improving Dietary Behaviors of Mid-Life and Older African Americans</td>
<td>WICKRAMA, K. HUMAN DEVELOPMENT &amp; FAMILY STUDIES</td>
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<td>4003019</td>
<td>3/1/08 to 2/28/10</td>
<td>EXTENSION FOUNDATION</td>
<td>Online Investor Education Module Delivery to Annie's Project Participants</td>
<td>HUNT, LOIS LADD, ALAN WELLS, JON EGGERS, TIMOTHY EXTENSION TO AGRICULTURE &amp; NATURAL RESOURCES-EXT</td>
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<td>410-30-02</td>
<td>6/1/08 to 5/31/11</td>
<td>UNIVERSITY OF MINNESOTA</td>
<td>Iowa PDP Plan of Work 2008</td>
<td>DEWITT, JERALD ENTOMOLOGY-EXT</td>
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<td>400-17-14</td>
<td>8/15/08 to 11/30/11</td>
<td>UNIVERSITY OF MINNESOTA</td>
<td>Investigation of Low Temperature Cracking in Asphalt Pavements</td>
<td>WILLIAMS, R. CIVIL, CONSTRUCTION, &amp; ENVIRONMENTAL ENGINEERING-ENGR</td>
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II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$40,000 UNIVERSITY OF MINNESOTA
Investigation of Low Temperature Cracking in Asphalt Pavements
8/15/08 to 11/30/11 RESEARCH
CO-PI NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$40,000 GRAIN PROCESSING CORPORATION
Resistant and Slowly Digestible Starch from Cornstarch Through Ingredient Processing
8/1/08 to 7/31/10 RESEARCH
JANE, JAY-LIN FOOD SCIENCE & HUMAN NUTRITION-CALS

$40,000 UNIVERSITY OF MINNESOTA
Investigation of Low Temperature Cracking in Asphalt Pavements
8/15/08 to 11/30/11 RESEARCH
CO-PI NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$40,000 GRAIN PROCESSING CORPORATION
Resistant and Slowly Digestible Starch from Cornstarch Through Ingredient Processing
8/1/08 to 7/31/10 RESEARCH
JANE, JAY-LIN FOOD SCIENCE & HUMAN NUTRITION-CALS

$39,914 IOWA DEPARTMENT OF JUSTICE
Story County Sexual Assault Response Team
7/1/08 to 6/30/09 EXTENSION/PUBLIC
STEWART, JERRY VICE PRESIDENT FOR BUSINESS & FINANCE-VPBF

$39,860 IOWA DEPARTMENT OF PUBLIC HEALTH
Epidemiology and Laboratory Capacity for Infectious Diseases/West Nile Surveillance
1/1/08 to 12/31/08 RESEARCH
BARTHOLOMAY, LYRIC ENTOMOLOGY-CALS

$38,289 ENVIRONMENTAL DEFENSE FUND
Analysis of a Gulf-Wide Reef Fish IFQ Program
5/15/08 to 12/31/08 RESEARCH
WENINGER, QUINN ECONOMICS-CALS

$36,440 JET PROPULSION LABORATORY
SAINTS: Star Formation and the ISM in Nearby Tidal Streams
7/22/08 to 6/30/10 RESEARCH
STRIK, CURTIS PHYSICS & ASTRONOMY-LAS
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$33,333 UNIVERSITY OF NEBRASKA-LINCOLN
Multi-Laser-Beam Open-Atmosphere Surface Coating Techniques Based on Precursor Excitation, Photodissociation and Controlled Cooling
1/1/08 to 7/31/09 RESEARCH
WANG, XINWEI MECHANICAL ENGINEERING-ENGR

$28,000 IOWA STATE UNIVERSITY RESEARCH FOUNDATION
Decolorization of Polypropylene
7/29/08 to 6/30/09 RESEARCH
VERKADE, JOHN CHEMISTRY-LAS

$25,485 IOWA DEPARTMENT OF TRANSPORTATION
Effectiveness of Dynamic Messaging on Driver Behavior for Late Merge Lane Road Closures
7/28/08 to 12/31/08 RESEARCH
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
MCDONALD, THOMAS CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
SPERRY, ROBERT B CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED

$24,993 BIOTECHNOLOGY RESEARCH AND DEVELOPMENT CORPORATION
Avirulent Gene-Deleted Strains of Mycoplasma Bovis for Modified Live Vaccine Use
7/1/08 to 2/28/09 RESEARCH
ROSENBUSCH, RICARDO VETERINARY MICROBIOLOGY & PREVENTIVE MEDICINE-VET

$20,213 LUTHERAN SOCIAL SERVICES OF IOWA
Graduate Assistantship with Lutheran Social Services of Iowa
8/13/08 to 8/12/09 RESEARCH
MURPHY, MEGAN HUMAN DEVELOPMENT & FAMILY STUDIES-HS

$20,000 PRECAST/PRESTRESSED CONCRETE INSTITUTE
Performance Verification of the PreWEC Concept and Development of Seismic Design Guidelines
7/1/08 to 6/30/09 FELLOWSHIP
SRITHARAN, SIVALINGAM CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
I. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$19,752  NUTRA-FLO PROTEIN AND BIOTECH PRODUCTS, INC
Incorporation of Fermented Soy Products into Calf Starter Diets
7/25/08 to 7/31/09  RESEARCH
TYLER, HOWARD  ANIMAL SCIENCE-CALS
MUFF, BRIAN  INSTITUTE FOR PHYSICAL RESEARCH & TECHNOLOGY COMPANY ASSISTANCE-VP

$17,750  DEPARTMENT OF INTERIOR, GEOLOGICAL SURVEY
Development of Harvest Strategies for Mourning Doves
8/4/06 to 6/30/10  RESEARCH
OTIS, DAVID L  NATURAL RESOURCE ECOLOGY & MANAGEMENT-AES

$17,331  IOWA DEPARTMENT OF HUMAN SERVICES
Project Recovery
5/25/08 to 7/26/08  EXTENSION/PUBLIC
GLENN, SHERRY  EXTENSION TO FAMILIES-EXT
VANGINKEL, MARGARET  EXTENSION TO FAMILIES-EXT

$15,135  NATIONAL CENTER FOR APPROPRIATE TECHNOLOGIES
Local Foods National Center for Appropriate Technologies Outreach Contract
7/1/08 to 6/30/09  EXTENSION/PUBLIC
HONEYMAN, MARK  ANIMAL SCIENCE-AES

$15,000  DEERE & COMPANY
NSF I/UCRC Center for Information Protection - John Deere
1/1/08 to 12/31/08  RESEARCH
JACOBSON, DOUG  ELECTRICAL & COMPUTER ENGINEERING

$15,000  IOWA DEPARTMENT OF TRANSPORTATION
Incident Location Tool Support for the Iowa Department of Transportation
3/1/07 to 9/30/09  RESEARCH
SOULEYRETTE, REGINALD  CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR
GIESEMAN, DANIEL  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
NAMBISAN, SHASHI  CENTER FOR TRANSPORTATION RESEARCH & EDUCATION-VPR/ED
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<td>400-75-48</td>
<td>$15,000</td>
<td>Basic Functionality Testing of Defatted Rice Bran vs Regular Rice Bran in Meat Products Approved by Department of Agriculture</td>
<td>2/23/07</td>
<td>8/31/09</td>
<td>ANIMAL SCIENCE-CALS</td>
<td>SEBRANEK, JOSEPH</td>
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<td>478-09-20</td>
<td>$14,165</td>
<td>Access Plus Program</td>
<td>7/1/08</td>
<td>6/30/09</td>
<td>PARKS LIBRARY-PROV</td>
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<td>421-20-32</td>
<td>$14,001</td>
<td>Water Quality Study, Saylorville Reservoir</td>
<td>7/1/08</td>
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<td>CIVIL, CONSTRUCTION, &amp; ENVIRONMENTAL ENGINEERING-ENGR</td>
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<td>ONG, SAY</td>
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<td>478-17-06</td>
<td>$12,500</td>
<td>2008 Biobased Industry Outlook Conference</td>
<td>7/28/08</td>
<td>10/31/08</td>
<td>EXTENSION AREA - SOUTHWEST-EXT</td>
<td>EUKEN, JILL</td>
<td>BROWN, ROBERT</td>
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<td>404-21-38</td>
<td>$11,947</td>
<td>Investigating the HEC-HMS Model for Watershed-Scale Flood Prediction in the Des Moines Weather Forecast Office Region</td>
<td>7/30/08</td>
<td>7/1/09</td>
<td>GEOLOGICAL &amp; ATMOSPHERIC SCIENCES-LAS</td>
<td>FRANZ, KRISTIE</td>
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<td>419-30-01</td>
<td>$10,000</td>
<td>Monitoring Aerial Transport of Phakopsora Pachyrhizi Spores</td>
<td>8/13/08</td>
<td>5/31/09</td>
<td>PLANT PATHOLOGY-CALS</td>
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<td>LEANDRO, LEONOR</td>
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| 7/1/08 - 7/31/08 | ARMY CORPS OF ENGINEERS | $9,203 | Water Quality Study, Red Rock Reservoir 
LUTZ, DONNA (CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR) 
ONG, SAY (CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING-ENGR) |
| 7/1/08 - 6/30/09 | IOWA DEPARTMENT OF HUMAN SERVICES | $9,000 | Service Training Contract Amendment #2 
LEMPERS, JACOBUS (HUMAN DEVELOPMENT & FAMILY STUDIES-HS) |
| 3/15/07 - 2/28/09 | NATIONAL SCIENCE FOUNDATION | $8,920 | LTREB: Long-Term Research on Environmental Gender Determination in a Model System: The Next Five Years 
JANZEN, FREDRIC (ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-CALS) |
| 9/1/07 - 8/31/09 | MICHIGAN STATE UNIVERSITY | $8,822 | Management of Snails for Grub Control 
MORRIS, JOSEPH (NATURAL RESOURCE ECOLOGY & MANAGEMENT) 
CLAYTON, RICHARD (NATURAL RESOURCE ECOLOGY & MANAGEMENT) |
| 4/1/08 - 9/30/08 | THE COOPER INSTITUTE | $8,781 | Derivation of Aerobic Fitness Cutpoints Using LMS and ROC Analyses: Application to FITNESSGRAM 
WELK, GREGORY (KINESIOLOGY-HS) |
| 6/1/08 - 9/30/08 | UNIVERSITY OF WASHINGTON | $8,545 | Identification of the Pathways to Scarring 
TUGGLE, CHRIS (ANIMAL SCIENCE) |
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<td>Structure-Composition-Property Relationships in Complex Intermediate Phases: Experimental and Theoretical Studies</td>
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<td>8/15/08</td>
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<td>$5,000</td>
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<td>Research for National Nutrition Guide</td>
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<td>416-43-44</td>
<td>7/14/08</td>
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<td>$4,496</td>
<td>STATE OF MINNESOTA</td>
<td>Examination of Minnesota Municipal Boundary Adjustments</td>
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$3,996 DEPARTMENT OF AGRICULTURE, FS
Biotrichium Species Study
3/30/07 to 3/30/09 RESEARCH
FARRAR, DONALD R ECOLOGY, EVOLUTION & ORGANISMAL BIOLOGY-LAS

$3,441 STORY COUNTY AGRICULTURAL EXTENSION DISTRICT
Developing and Delivery of Midwest Composting School in Iowa
5/20/08 to 8/31/08 EXTENSION/PUBLIC
GLENN, SHERRY EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
ARORA, KAPIL EXTENSION TO AGRICULTURE & NATURAL RESOURCES-EXT
GLANVILLE, THOMAS AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$3,000 NORTHERN FILTER MEDIA, INC
Converting Low Value Thin Stillage from Dry Milling Ethanol Plants into High Value Fungal Biomass
7/1/06 to 12/31/07 RESEARCH
VAN LEEUWEN, JOHANNES CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING

$2,049 NATIONAL SCIENCE FOUNDATION
Biocomplexity in the Bioeconomy: The Natural and Industrial Ecology of Biobased Products
1/1/01 to 8/31/09 RESEARCH
ANEX, ROBERT AGRICULTURAL & BIOSYSTEMS ENGINEERING-CALS

$1,698 POLK COUNTY BOARD OF SUPERVISORS
Polk County Wellness Activities for Senior Citizens
7/1/07 to 6/30/10 EXTENSION/PUBLIC
KLEIN, SUSAN EXTENSION TO FAMILIES

$955 IOWA DEPARTMENT OF TRANSPORTATION
Work Plan for the Portland Cement Concrete Engineer, FY08
7/1/07 to 6/30/08 RESEARCH
NAMBISAN, SHASHI CENTER FOR TRANSPORTATION RESEARCH & EDUCATION
WANG, KEJIN CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
CEYLAN, HALIL CIVIL, CONSTRUCTION, & ENVIRONMENTAL ENGINEERING
II. GIFTS, GRANTS, CONTRACTS AND MEMORANDA OF AGREEMENT

$480  IOWA DEPARTMENT OF PUBLIC HEALTH
Pick a Better Snack and ACT Bingo Cards

7/10/08 to 9/30/08  EXTENSION/PUBLIC
SETTLE, MARK
METCALF, STEPHEN

EXTENSION COMMUNICATIONS & MARKETING-EXT