

Faculty Seed Grants Prior to 2005

Note: Prior to 2004, awards were made biannually. Prior to 2003, awards were called Faculty Research/Creative Activity Grants.

2004

Anderson, Ken B.

Geology

"Ultra-Trace Analytical Spectroscopy of Environment and Energy-Related Organic Compounds"

Balkansky, Andrew K.

Anthropology

"Characterization of Ancient Mexican Ceramics Through Petrographic and Chemical Analysis"

Brazley, Michael D.

Architecture and Interior Design

"Assessing the Capacity of Employer-Assisted Housing in Southern Illinois"

Byrd, Mark S.

Physics

"Identifying and Using Entangled Quantum States in Quantum Computing and Quantum Cryptography"

Dunn, Jennifer L.

Sociology

"Victim Advocacy in Criminal Justice and Community-Based Organizations"

Fakhoury, Ahmad M.

Plant, Soil, and Agricultural Systems

"Using a REMI Approach to Identify Genes Involved in Ochratoxin A Biosynthesis by *Aspergillus ochraceus*"

Fuller, Janet M.

Linguistics

"From the Community to the Classroom: Spanish-English Bilinguals in Southern Illinois"

Ge, Qingfeng

Chemistry

"Density Functional Theory Studies of Ti-Doped Complex Hydrides as Potential Hydrogen Storage Materials"

Kelly, Anita M.

Fisheries and Illinois Aquaculture Ctr.

"The Effects of Soy Isoflavones on Vitellogenin Production and Male Gamete Quality in Channel Catfish"

La Garce, Melinda

Architecture and Interior Design

"Influence of Visible Light Wavelengths on Photobiological Production of Enzymes and Hormones That Affect Human Behaviors"

Mathias, James A.

Mechanical Engineering and Energy Processes

"Electrical Generation from Low-Grade Energy"

Neumann, Robert M.

Fisheries and Illinois Aquaculture Center

"Development and Evaluation of Methods for Sampling Asian Carps"

Oyana, Tonny

Geography

"A Spatial Characterization of Sleeping Disorders Using Geographical Information Systems (GIS) in Densely Populated Urban Neighborhoods of Buffalo City, New York"

Paul, Souren

Management

"A Study on Cultural Diversity, Intragroup Conflict, and Performance of Groupware Supported Virtual Teams"

Podber, Jacob J.

Radio/Television

"Connecting to the World: Internet Usage in the Melungeon Communities of Rural Appalachia"

Shih, Stephen C.

Information Management Systems

"Designing a Simulation Laboratory Environment for Service-Oriented Supply Chain Information Management"

Steinle, Jena J.

Physiology

"Effects of Aging on Eph B4 and Ephrin B2 Expression in Rats"

Stojanowski, Christopher

Anthropology

"Social Complexity, Mobility, and Phenotypic Variation: A Population Genetic Perspective on Florida Prehistory"

Sun, Wanxiao

Geography

"Improving Remote Sensing Image Classification Accuracies by Using Texture Analysis and Artificial Neural Networks"

Tate, Ralph F.
Information Management Systems
"Analysis and Demonstration of an Optical Microphone"

Wang, Haibo
Electrical and Computer Engineering
"Dynamic Reconfiguration Techniques for Mixed-Signal VLSI Systems"

Wang, Xiaoxin
Finance
"Information and Liquidity in Price Discovery"

Weston, Rebecca
Psychology
"Sexual Violence in Childhood and Adulthood: Effects on Physical and Mental Health Among Low-Income Women"

Zang, Ling
Chemistry
"Fabrication of Molecular Electronic Devices and Investigation at the Single-Molecule Level"

Zhang, Wei
Electrical and Computer Engineering
"Compiler and Hardware Cooperative Branch Prediction"

Fall 2003

Balasubramanian, Siva
Marketing
"Understanding How Strategic Marketing Actions Change Shareholder Value: Research Gaps and Lessons from Past Event Studies"

Bartholomew, Blaine
Biochemistry and Molecular Biology
"Higher Ordered Chromatin Structure and Its Relation to Gene Expression"

Eichholz, Michael
Cooperative Wildlife Research Laboratory
"Development of a Technique to Estimate Breeding Propensity of Free-Living Waterfowl"

Griswold, Kenneth
Animal Science, Food & Nutrition
"Use of Biofuel By-Products to Produce Alternative Agricultural Products"

Haniotakis, Themistoklis
Electrical Engineering
"Advance VLSI Design and Test"

Hooper, Bruce
Geography
"The Performance Evaluation of River Basin Organizations for IWRM"

Jacobs, Eric
Psychology
"Self-Control and Traumatic Brain Injury: A Feasibility Study of a Rodent Model of Injury-Induced Changes in Sensitivity to Delayed Consequences of Behavior"

Jiang, Tao
Philosophy
"The Subliminal Consciousness: The Problematics of Transcendence and Immanence"

Savage, Mandara
Technology
"An Analysis of Surface Quality Relating to Machine Tool Vibration"

Smith, Richard
Art and Design
"Forge-Welded Decorative Surfaces on Large-Scale Sculpture"

Vallath, Chandrasekhar
Radio-Television
"Bridging the Digital Divide: Multimedia Development Tool for K-12 Teachers"

Whitehead, Vagner
Cinema and Photography
""LOVE: An Experimental Video""

Wildrick, Christopher
Art and Design
"Here and There"

Spring 2003

Aouadi, Samir
Physics
Nanocomposite and Nanolaminate Coatings for Orthopedic Implants

Ban, Dubravka
Mathematics
Generic Representations in Langlands' Program

Barabas, Jason
Political Science
The Fairness Doctrine and Media Content Diversity in the United States*

Che, Dunren
Computer Science
Storing and Querying XML Data in Relational Databases*

Comparato, Scott
Political Science
State Supreme Court Compliance with Supreme Court Precedent*

Dhali, Shirshak K.
Electrical and Computer Engineering
Application of Plasma Processing in Food Industry

Dilley, Patrick
Educational Administration and Higher Education
Non-Heterosexual Students in Midwestern Universities: A Historical Review

Feldman, Joel
School of Art and Design
An Estranged Environment: Juxtapositions in the Southern Illinois Landscape

Ferre, Eric
Geology
Test of the "Clutch Tectonics" Model by Mapping Deformation Gradients in an Ophiolite

Foster, Kevin
Black American Studies
A Vindicationist Study of the Old Slave House near Equality*

Gilbert, Scott / Lahiri, Sajal
Economics
Human Development Indicators: Predictability and Robustness

Goodson, Boyd
Chemistry and Biochemistry
"Lighting Up" NMR Signals from Molecules and Materials with Optical/Nuclear Double Resonance*

Jones, Karen / King, Sheryl S.

Animal Science, Food and Nutrition

Identification of Dopamine and Dopamine Receptors in Mare Ovaries: Components of a Mechanism Disrupted by Tall Fescue Consumption

Kolb, Gary

Cinema and Photography

Digital Post-Visualization

Mahajan, Ajay / Chu, Tsuchin C. / Pendakur, Manjunath / Jaehnig, Walter

Mechanical Engineering and Energy Processes / College of Mass Communication and Media Arts

A Multidisciplinary Approach to Develop Web-Based Smart Tutors Within a Seamless Learning Environment

Markus, Zoltan

English

Shakespeares at War: Cultural Appropriations of Shakespeare in London, Berlin, and Budapest During World War II

McCall, John

Anthropology

The Video Coup in African Cinema: An Ethnographic Documentary on the Nigerian Popular Movie Industry

Murdock, Arnold

Workforce Education and Development

Online Course Development in Technical Teacher Education Programs: The Role of Organizational Culture and Support*

Rahimi, Shahram

Computer Science

Intelligent Mobile Agents for Geospatial Data Integration and Conflation

Rupp, Gerald

Anatomy

Regulation of Axonemal Motility

Schafer, Joseph

Center for Study of Crime, Delinquency and Corrections

The Etiology and Management of White Supremacist Identities*

Schurz, Henri

Mathematics

Analysis and Simulation of Randomly Perturbed Logistic Equations

Vratil, Dru
Cinema & Photography
Grave Matters . . . Buried in America*

Wang, Lichang
Chemistry and Biochemistry
First Principle Calculations of Hydrogen Bonding Network in Self-Assembled Thiols on Gold Substrates

Williams, Heidi
School of Music
Heidi Louise Williams, Piano/Michael Barta, Violin: Promotional Compact Disc Recording*

Xiao, MingQing
Mathematics
Numerical Simulation of Control of Fluid Dynamics

Fall 2002

Batinski, Michael C.
History
"Historical Consciousness in Jackson County, Illinois"

Bond, Jason P.
Plant, Soil, and General Agriculture
"Plant-Parasitic Nematodes of Peach in Illinois"

Fagan, Jody C.
Library Affairs
"Instant Messaging Reference"

Gao, Yong
Chemistry and Biochemistry
"Mechanistic Studies of VanA and D-Ala-D-Ala Ligase"

Howell, Jason W.
Art and Design
"A Digital Multimedia Record of the Exhibition 'A Modern Institution: Design at SIU During the Delyte Morris Era, 1948-1970'"

Hsiao, Jen-kan Kent
Civil Engineering
"Optimal Configuration of Steel Gusset Plate"

Ibrahim, Kamal M.

Zoology

"Genetic Markers for the Study of the Population Dynamics and Genetics of the African Armyworm"

Kline, Kim N.

Speech Communication

"Interpretive/Critical Analysis of Health, Illness, and Medicine in Feature Films"

McClurg, Scott D.

Political Science

"Campaign Strategy and Voter Turnout: A Study of Mobilization in the 2002 Illinois Gubernatorial Election"

Patrylo, Peter R.

Physiology

"Seizure Susceptibility in Hippocampal Slices from Reeler -/- Mice, an Animal Model of Human Lissencephaly"

Schlesinger, Matthew

Psychology

"Microanalytic Approaches to Studying Infants' Attention"

Underwood, Stephen J.

Geography

"An Investigation of the Spatial and Temporal Patterns of Cloud-to-Ground Lightning Prior to Initiation of Hazardous Debris Flows in Mountain Areas of the Western United States"

Wilhelm, Frank M.

Zoology

"The Ecology and Lipid Dynamics of Amphipods in Lakes of Southern Illinois"

Spring 2002

Blinde, Elaine M.

Physical Education

"Historical Examination of Women's Relationship to Baseball in the United States"

Boulukos, George E.

English

"The Grateful Slave: Race and Plantation Slavery in 18th-Century British Fiction"

Cox, Thomas C.

Physiology

"Pressure-Sensitive Sodium Channels Expressed in Xenopus Frog Oocytes"

Fletcher, Anne
Theater

"Completion of a Book-Length Study of the Theatre Union, an American Political Theatre Company of the 1930s"

Harackiewicz, Frances J. / Electrical Engineering

Wright, Mary H. / Mathematics

Shea, Sandra / Family and Community Medicine

"Needs Assessment Analysis of SIUC's Undergraduate Engineering Program"

Higginbotham, D. Allan

Animal Science, Food and Nutrition

"Hypothalamic Neuropeptide Gene Expression Prior to Dietary-Induced Obesity"

Hurlburt, Holly S.

History

"First Ladies: The Dogaresse of Venice, 1200-1600"

Levia, Delphis F., Jr.

Geography

"The Development of a Methodology to Detect Farmland Prone to Residential Development Near Small Towns"

Lydy, Michael J.

Fisheries and Illinois Aquaculture Center

"Use of Critical Body Residues for Improved Interpretation of Biomonitoring Data"

Marikunte, Shashidhara S.

Civil Engineering

"Performance of Composites Reinforced with Fibers, Mesh, and Mats"

McCarroll, Matthew E.

Chemistry and Biochemistry

"Fluorescence Anisotropy as a Tool for Investigating Chiral Recognition"

Miles, Steven B.

History

"Becoming Cantonese: Migration Along the West River Basin, 1500-1900"

Miller, Michelle Hughes

Sociology

"Motherhood Ideologies in Judicial Discourse: An Update and Assessment of Change, 1980-2001"

Rehfeldt, Ruth Anne

Rehabilitation Institute

"The Generalization of Functional Classes by Persons with Autism"

Stadler, Shane

Physics

"The Fabrication and Characterization of Ferrite Thin Films"

Steinbock, Anthony J.

Philosophy

"Verticality and Idolatry"

Wang, Lichang

Chemistry and Biochemistry

"Studies of Proton Transfer in Gramicidin A Helical Trans-Membrane Channel"

Welch, Paul D.

Anthropology

"Inventorying the Kincaid Archaeological Site Collection"

Young, Michael E.

Psychology

"Eye Movement and the Perception of Causality"

Fall 2001

Adams, Jane H.

Anthropology

"Memory and Judgment: Race and Civil Rights in Mississippi"

Andes, Linda J.

Sociology

"Competitive Strategies and Organizational Effectiveness in Three Industries"

Bond, Jason P.

Plant, Soil, and General Agriculture

"The Impact of Plant-Parasitic Nematodes on Peach Production in Illinois"

Bradley, Rebekah G.

Psychology

"Group Psychotherapy for Women with a History of Interpersonal Violence: A Pilot Study"

Dixon, Mark R.

Rehabilitation Institute

"Investigating Gambling Behavior Under Conditions of Perceived Control"

Felleman, Susan

Cinema and Photography

"Film and the Idea of Art"

Fix, Douglas F.
Microbiology
"HPLC Analysis of Genistein in *Escherichia coli*"

Garvey, James E.
Fisheries and Illinois Aquaculture Center
"Bioenergetics and Survival of Largemouth Bass During Winter: Are Community Interactions Important?"

Hammig, Bart J.
Health Education and Recreation
"Differences in Injury Deaths in Rural and Urban Areas, Illinois 1992-1998"

Hanes, Michael D.
Music
"Create a University Band Archive"

Roddy, Jan Peterson
Cinema and Photography
"In the Bones: An Interpretation of Ozark Place Through Photographs and Text"

Schreiber, James B.
Educational Psychology and Special Education
"Mathematics Achievement: Hierarchical and Structural Equation Models"

Spring 2001

Atkinson, William A.
Physics
"A Computational Study of Impurities in High-Temperature Superconductors"

Brown, Philip
Music
"Jazz Recording Project"

Coulson, L. Richard
Physiology
"Cognitively Flexible Problem-Based Learning for Teacher Education"

Gao, Yong
Chemistry
"Mechanistic Studies of VanA and D-Ala-D-Ala Ligase"

Gorman, Carma R.

Art and Design

"Henry Sargent (1770-1845) and the Marketing of Art in the United States, 1795-1845"

Hahn, Robert A.

Philosophy

"'Knowledge' in Archaic Greece"

Head, Larry D.

Aviation Technologies

"Meeting the Workforce Needs in Aviation Maintenance"

Kaplan, Louis P.

Cinema and Photography

"Imaging America, Imagining Community: A Twentieth-Century Photographic Inquiry"

Kapur, Jyotsna

Cinema and Photography

"Global Fantasies/Local Realities: Global Television, Hollywood, and the Transformation of Childhood in India"

Krajewski, Carey

Zoology

"Testing the Impact of Past Climate Change and Habitat Fragmentation on the Evolution of Dasyurid Marsupials"

McCarroll Matthew E.

Chemistry

"Fluorescence Anisotropy as a Tool for Investigating Chiral Recognition"

McEathron, Scott J.

English

"English Labouring-Class Poets, 1800-1830"

Meksem, Khalid

Plant, Soil, and General Agriculture

"VIGS: Tool Development for High Throughput Functional Analysis of Legume Genes"

Overturf, Daniel V.

Cinema and Photography

"The Great Loop: A Journey Down the Illinois River"

Reeve, John D.

Zoology

"Biogeography and Evolution of Diet Breadth in Predatory Arthropods"

Renn, Kristen A.

Educational Administration and Higher Education

"Testing and Emerging Ecology Theory of College Student Development Through the Experience of Bi-and Multiracial Students"

Sengupta, Raja R.

Geography

"Prioritizing Mangrove Swamp Fragments for Ecological Preservation Using Remote Sensing and GIS"

Sharma, Subhash C.

Economics

"Estimating Efficiency and Risk of U.S. Commercial Banks: Using Stochastic Frontier Panel Models"

Strickland, Donna G.

English

"The Rhetorical Limits of Democracy in John Dewey's Educational Philosophy"

Sutton, David

Anthropology

"Inheritance, Gender Power and State Law"