

L. Summary of NSF Awards to Texas Tech

| Award | Directorate | Program | Principal Investigator | Start Date - End Date | Amount |
|--------|-------------|---|---|-----------------------|-----------|
| | | | Co-PIs | | |
| | | | Title | | |
| 411844 | ENG | MATERIALS AND SURFACE ENG | Ekwaro-Osire, | 9/1/2004 - 12/31/2005 | \$60,000 |
| | | | SGER: Weibull Failure Criterion for MEMS Component with Stress Singularity | | |
| 417436 | BIO | FUNCTIONAL & REGULATORY SYS CL BIOMOLECULAR | Nes, William | 9/1/2004 - 8/31/2010 | \$936,032 |
| | | | Enzymatic C-Methylation Reactions of Phytosterol Biosynthesis | | |
| 406151 | MPS | STATISTICS | Patrangenaru, Victor | 9/1/2004 - 12/31/2006 | \$113,052 |
| | | | Collaborative Research: Statistical Analysis on Manifolds: A Nonparametric Approach for Shapes and Images | | |
| 423465 | ENG | MANFG ENTERPRISE SYSTEMS | Zhang, Hong-Chao | 10/1/2004 - 8/31/2007 | \$100,000 |
| | | | Jianzhi Li, Lennie Myers , Allen Whitley , Ingrid Sinclair | | |
| | | | GOAL: Modeling and Optimization of a Responsive Reverse Logistics Channel for Electronic Products | | |
| 525339 | MPS | ANALYSIS PROGRAM | Solynin, Alexander | 12/9/2004 - 5/31/2007 | \$42,706 |
| | | | Extremal Problems in Complex Analysis and Potential Theory | | |

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| | | | Title | | |
| 439750 | GEO | PETROLOGY AND GEOCHEMISTRY | Barnes, Calvin | 1/1/2005 - 12/31/2008 | \$229,235 |
| | | | Aaron Yoshinobu | | |
| | | | Collaborative Research: Magma-Host Rock Interaction Processes of Assimilation in the Mid-Crustal Hortavær Intrusive Complex, North Central Norway | | |
| 515858 | MPS | ELECTRONIC/PHOTONIC MATERIALS | Chaudhuri, Jharna | 1/1/2005 - 6/30/2008 | \$267,633 |
| | | | Collaborative Research: Analysis of Defects and Their Causes in Bulk Aluminum Nitride Crystals | | |
| 438472 | ENG | PARTNRSHPs FOR INNOVATION-PFI | Green, Alexia | 1/1/2005 - 12/31/2006 | \$599,952 |
| | | | Alliance For Innovative Nursing Education | | |
| 456120 | MPS | ANALYTICAL SEPARATIONS & MEAS. | Dasgupta, Purnendu | 2/15/2005 - 12/31/2006 | \$353,000 |
| | | | A Green Fieldable Analyzer for Arsenic | | |
| 456973 | ENG | INDUSTRY/UNIV COOP RES CENTERS | Collins, Terry | 3/1/2005 - 2/28/2007 | \$10,000 |
| | | | Milton Smith , Jeffrey Woldstad, Mario Beruvides , Edward McCombs | | |
| | | | Center for Engineering Logistics and Distribution: Human Interactions in Logistics Systems | | |

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| | | | Title | | |
| 514706 | MPS | ANALYTICAL SEPARATIONS & MEAS. | Liu, Shaorang | 7/15/2005 - 3/31/2008 | \$385,000 |
| | | | Henryk Temkin, Jordan Berg | | |
| | | | Liquid Behavior Unique to Nanochannels: Modeling and Applications | | |
| 536665 | O/D | INTERNATIONAL PLAN & WORKSHOPS ANALYSIS PROGRAM | Barnard, Roger | 8/15/2005 - 7/31/2007 | \$47,520 |
| | | | George Williams | | |
| | | | U.S.-India Workshop: Quasiconformal Mappings, Geometric Functions, and Applications; Chennai, India, December 2005. | | |
| 517976 | GEO | SEDIMENTARY GEO & PALEOBIOLOGY | Barrick, James | 8/15/2005 - 7/31/2009 | \$166,109 |
| | | | Collaborative Research: Late Wenlock-Ludlow (Silurian) Oceanic Episodes and Events, Southern Laurentia | | |
| 500323 | ENG | PARTICULATE & MULTIPHASE PROCES | Dai, Lenore | 9/1/2005 - 8/31/2007 | \$60,000 |
| | | | Pickering Emulsions - A Paradigm Shift | | |
| 524713 | ENG | CONTROL, NETWORKS, & COMP INTE | Berg, Jordan | 9/15/2005 - 8/31/2010 | \$240,000 |
| | | | Control Theory of Large Actuator Arrays | | |

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| | | | Title | | |
| 518652 | MPS | CHEMICAL INSTRUMENTATION | Dasgupta, Purnendu | 9/15/2005 - 5/31/2007 | \$258,950 |
| | | | Real Time Analyzers for Gases, Particles and Metals | | |
| 510936 | ENG | INFRAST MGMT & EXTREME EVENTS | Gerber, Brian | 9/15/2005 - 1/31/2006 | \$80,164 |
| | | | Intergovernmental Challenges of Homeland Security: Explaining Local Government Preparedness Efforts | | |
| 545505 | ENG | INDUSTRY/UNIV COOP RES CENTERS | Matis, Timothy | 10/1/2005 - 9/30/2010 | \$212,000 |
| | | | James Burns , Jeffrey Woldstad, James Simonton | | |
| | | | Center for Engineering Logistics and Distribution (CELDI): An NSF I/UCRC at Texas Tech University | | |
| 541993 | MPS | STATISTICS | Patrangenaru, Victor | 10/1/2005 - 9/30/2006 | \$5,000 |
| | | | Robert Paige | | |
| | | | Red Raider Mini-Symposium 2005: Geometry and Statistics and Image Analysis | | |
| 456758 | MPS | ELEMENTARY PARTICLE THEORY | Thacker, Beth | 3/1/2006 - 2/28/2009 | \$30,000 |
| | | | NRQCD Calculations of Heavy Quark Bound States: Focus on the Fine Structure | | |

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| | | | Title | | |
| 545040 | BIO | BIOLOGICAL RESEARCH COLLECTION | Bradley, Robert | 4/1/2006 - 3/31/2009 | \$224,999 |
| | | | Robert Baker | | |
| | | | Collection Enhancement, Enlargement, and Compactorization at the Natural Science Research Laboratory | | |
| 538453 | OPP | ANTARCTIC OCEAN & ATMOSPH SCI | Basu, Sukanta | 5/1/2006 - 4/30/2010 | \$171,373 |
| | | | Understanding, Parameterizing and Modeling the Strongly Stratified Atmospheric Boundary Layer Processes over the Antarctic Plateau | | |
| 606500 | MPS | POLYMERS | Simon, Sindee | 5/1/2006 - 4/30/2010 | \$440,000 |
| | | | Polymer Chain Length and Branching Effects on the Viscoelastic Bulk Modulus and Structural Recovery at High Pressure | | |
| 555909 | ENG | MECHANICS OF MATERIALS | Levitas, Valery | 5/15/2006 - 12/31/2008 | \$126,000 |
| | | | Stress-Induced Virtual Melting as a New Mechanism of Solid-Solid Phase Transformations and Stress Relaxation | | |
| 624011 | ENG | PARTICULATE & MULTIPHASE PROCES | Dai, Lenore | 6/1/2006 - 11/30/2007 | \$39,927 |
| | | | SGER: Microrheology of Liquid-Liquid Interfaces | | |

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| | | | Title | | |
| 605167 | MPS | STATISTICS | Ruymgaart, Frits | 6/1/2006 - 5/31/2008 | \$37,468 |
| | | | Frechet differentiation of functions of operators with application in functional data analysis | | |
| 552908 | MPS | WORKFORCE IN THE MATHEMAT SCI HUMAN RESOURCES | Seshaiyer, | 6/1/2006 - 8/31/2007 | \$151,004 |
| | | | REU: Multidisciplinary Summer Undergraduate Research Program in Computation and Control of Biological and Biologically Inspired Systems | | |
| 609416 | ENG | NANOSCALE: INTRDISCPL RESRCH T ELECT, PHOTONICS, & | Nikishin, Sergey | 6/15/2006 - 5/31/2010 | \$1,006,000 |
| | | | Mark Holtz , Jordan Berg, Ayrton Bernussi | | |
| | | | ANN NIRT: GOALI : Nano-Engineering Efficient Optoelectronic Devices | | |
| 604694 | MPS | TOPOLOGY | Gelca, Razvan | 7/1/2006 - 6/30/2010 | \$105,563 |
| | | | The Quantization of the Moduli Space of Flat Connections on a Surface | | |
| 610026 | MPS | COMPUTATIONAL MATHEMATICS | Seshaiyer, | 7/1/2006 - 9/30/2008 | \$200,464 |
| | | | Sandro Manservigi | | |
| | | | Mathematical and computational modeling of fluid-structure-control interactions with multidisciplinary applications in science and engineering | | |

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| | | | Title | | |
| 615321 | MPS | QUANTUM CALCULATIONS | Hase, William | 8/1/2006 - 1/31/2010 | \$426,000 |
| | | | Yu Zhuang | | |
| | | | Computer Simulation of Chemical Dynamics | | |
| 616942 | BIO | POPULATION DYNAMICS | Rice, Sean | 8/1/2006 - 7/31/2009 | \$223,000 |
| | | | Mathematical Foundations of Evolutionary Theory | | |
| 607508 | MPS | GALACTIC ASTRONOMY PROGRAM | Wilhelm, Ronald | 8/1/2006 - 7/31/2009 | \$30,881 |
| | | | Distances to high-velocity clouds | | |
| 555906 | ENG | MATERIALS AND SURFACE ENG | McKenna, Gregory | 8/15/2006 - 7/31/2009 | \$120,000 |
| | | | Collaborative Research: A Nanoparticle Embedment Method to Determine Surface and Interface Properties of Viscoelastic Liquids and Solids | | |
| 625191 | ENG | PARTICULATE &MULTIPHASE PROCES | Dai, Lenore | 9/1/2006 - 3/31/2009 | \$160,000 |
| | | | Exploring the Fudamentals and Applications of Pickering Emulsions | | |

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| | | | Title | | |
| 629344 | ENG | ETHICS EDU FOR SCI & ENG PROG | Lawson, William | 9/1/2006 - 8/31/2010 | \$300,000 |
| | | | Byron Newberry, Katherine Austin, Greta Griffiee | | |
| | | | "EESE: "Ethics Instruction for International Graduate Students in Engineering | | |
| 604501 | MPS | CONDENSED MATTER PHYSICS | Lichti, Roger | 9/1/2006 - 8/31/2010 | \$300,000 |
| | | | Defect Energies for Muonium (Hydrogen) in Semiconductors | | |
| 618406 | EHR | ADVANCE-PAID | Hoo, Karlene | 9/15/2006 - 8/31/2010 | \$499,590 |
| | | | Caryl Heintz-Wyatt, Charlotte Dunham, Stephanie Leeper, Cynthia Raehl | | |
| | | | ADVANCE Partnerships for Adaptation, Implementation and Dissemination: Partnership of Women in Engineering, Research and Science - PoWERS | | |
| 736514 | CSE | BIOLOGY & INFORMATION TECHNOLO | Ghosh, Bijoy | 1/1/2007 - 7/31/2009 | \$291,792 |
| | | | BIC: Pattern Generating Circuits for Computation and Control | | |
| 619215 | MPS | MAJOR RESEARCH INSTRUMENTATION | Ma, Yanzhang | 1/1/2007 - 12/31/2009 | \$433,872 |
| | | | Jharna Chaudhuri , Ming-Chien Chyu, Mark Holtz , Guigen Li | | |
| | | | MRI: Development of an In Situ High-Pressure High-Temperature Raman Scattering System: Research and Education | | |

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| 741321 | MPS | QUANTUM CALCULATIONS | Poirier, Lionel | 8/15/2007 - 7/31/2009 | \$173,418 |
| | | | SGER: Bipolar Quantum Trajectory Simulations | | |
| 718302 | MPS | COFFES MATHEMATICAL BIOLOGY POPULATION DYNAMICS | Allen, Linda | 9/1/2007 - 8/31/2010 | \$470,024 |
| | | | Edward Allen , Scott McMurry , Loren Smith | | |
| | | | Stochastic Metapopulation Models Applied to Amphibians on the Southern High Plains | | |
| 724377 | MPS | MATHEMATICAL GEOSCIENCES OPPORTUNITIES FOR | Hayhoe, Katharine | 9/1/2007 - 8/31/2010 | \$182,072 |
| | | | CMG Collaborative Research: Statistical Evaluation of Model-Based Uncertainties Leading to Improved Climate Change Projections at Regional to Local Scales | | |
| 718678 | MPS | STRUCTURE AND REACTIVITY | Quitevis, Edward | 9/1/2007 - 8/31/2010 | \$454,050 |
| | | | Probing Nanostructural Organization in Room Temperature Ionic Liquids Using Optical Kerr Effect Spectroscopy | | |
| 730114 | O/D | PIRE COLLABORATIVE RESEARCH QUANTUM | Hase, William | 9/15/2007 - 8/31/2012 | \$2,500,000 |
| | | | John Tully , Theresa Windus, Yu Zhuang | | |
| | | | PIRE: Simulation of Electronic Non-Adiabatic Dynamics for Reactions with Organic Macromolecules, Liquids, and Surfaces | | |

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| 713143 | CSE | HUMAN-CENTERED COMPUTING | | | |
| | | Muhlberger, Peter | 9/15/2007 - 8/31/2010 | | \$132,314 |
| Collaborative Research: Deliberative E-Rulemaking Decision Facilitation Project (DEER) | | | | | |
| <hr/> | | | | | |
| 753456 | EHR | GRADUATE FELLOWSHIPS | | | |
| | | None, None | 10/1/2007 - 9/30/2012 | | \$40,500 |
| GRADUATE RESEARCH FELLOWSHIP PROGRAM | | | | | |
| <hr/> | | | | | |
| 727944 | EHR | S-STEM:SCHLR SCI TECH ENG&MATH | | | |
| | | Strauss, Monty | 10/1/2007 - 9/30/2012 | | \$571,580 |
| Kent Pearce, Michael O'Boyle , George Williams, Magdalena Toda | | | | | |
| South Plains Mathematics Scholars | | | | | |
| <hr/> | | | | | |
| 745472 | MPS | ANALYSIS PROGRAM | | | |
| | | Williams, George | 11/1/2007 - 10/31/2008 | | \$15,784 |
| Kent Pearce, Kendall Richards, Alexander Solynin | | | | | |
| Conferences on Complex Analysis, Circle Packing, and Applications | | | | | |
| <hr/> | | | | | |
| 814013 | GEO | GEOPHYSICS | | | |
| | | Zhou, Hua-Wei | 12/31/2007 - 12/31/2009 | | \$70,286 |
| Seismic Imaging of Southern Californian Crust Using Deformable-Layer Tomography and Prestack Depth Migration | | | | | |

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| 742402 | EHR | GRAD TEACHING FELLOWS IN K-12 | OFFICE OF Casadonte, Dominick | 3/15/2008 - 2/28/2011 | \$1,625,015 |
| | | | Mary Baker , Jerry Dwyer , Jennifer Wilhelm , Kim Perry | | |
| | | | New, GK-12: Building Bridges: Integrating Mathematics, Science, and Engineering Education on the South Plains | | |
| 746985 | BIO | POP & COMMUNITY ECOL PROG | Schmidt, Kenneth | 3/15/2008 - 2/28/2010 | \$242,278 |
| | | | CAREER: The Ecology of Information in Predator-prey Interactions: Testing Mechanisms by which Informed Prey Avoid their Predators in Space and Time | | |
| 755236 | ENG | ENG DIVERSITY ACTIVITIES | COMBUSTION, FIRE, & PLASMA Levitas, Valery | 5/1/2008 - 4/30/2011 | \$380,004 |
| | | | Michelle Pantoya | | |
| | | | Melt-Dispersion Mechanism for Energetic Reactions of Aluminum Nanoparticles | | |
| 748606 | GEO | PHYSICAL & DYNAMIC METEOROLOGY | Basu, Sukanta | 6/1/2008 - 5/31/2010 | \$279,690 |
| | | | CAREER: Towards Better Representations of the Nocturnal Low-Level Jets in New Generation Large-Eddy and Mesoscale Models | | |
| 804438 | MPS | POLYMERS | McKenna, Gregory | 6/1/2008 - 5/31/2012 | \$478,375 |
| | | | Ultrathin Polymer Films: Viscoelasticity, Physical Aging and Failure | | |

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| | | | Title | | |
| 820152 | CSE | SOFTWARE FOR REAL-WORLD SYSTMS COMPUTING | Urban, Susan | 6/15/2008 - 5/31/2011 | \$339,581 |
| | | | SRS: A Decentralized and Rule-Based Approach to Data Dependency Analysis and Failure Recovery in Service-Oriented Environments | | |
| 833075 | ENG | POWER, CONTROLS & ADAPTIVE NET DYNAMICAL | Hoo, Karlene | 7/1/2008 - 7/31/2008 | \$27,270 |
| | | | Workshop: Networking Across the Profession to Better Use Cyberspace Tools For Discovery-Based Learning (Seattle, WA, June 14, 2008) | | |
| 829345 | MPS | QUANTUM CALCULATIONS | Poirier, Lionel | 7/15/2008 - 6/30/2009 | \$5,500 |
| | | | Workshop on Quantum Trajectory Methods; July 28-30, 2008, Los Alamos, NM | | |
| 749070 | MPS | PHYSICAL INORGANIC | Casadonte, Dominick | 8/1/2008 - 7/31/2010 | \$300,000 |
| | | | Synthesis and Spectroscopic Studies of Copper (I) Phenanthroline Molecular Assemblies | | |
| 821162 | ENG | MAJOR RESEARCH INSTRUMENTATION | Dallas, Tim | 8/1/2008 - 7/31/2010 | \$275,000 |
| | | | Eric Hequet, Noureddine Abidi , Louisa Hope-Weeks, Brandon Weeks | | |
| | | | MRI: Acquisition of a Nanocoating System for Engineering Surfaces | | |

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| 903359 | ENG | OPERATIONS RESEARCH | de Farias, Ismael | 8/1/2008 - 8/31/2010 | \$43,042 |
| | | Branch-and-Cut Approaches for Nonconvex Nonlinear and Mixed-Integer Nonlinear Programming | | | |
| <hr/> | | | | | |
| 813140 | BIO | ECOLOGY OF INFECTIOUS DISEASES | Schmidt, Kenneth | 8/1/2008 - 7/31/2010 | \$35,000 |
| | | RUI: COLLABORATIVE RESEARCH: The ecology of Anaplasma phagocytophilum: Reservoirs, risk, and incidence | | | |
| <hr/> | | | | | |
| 826437 | ENG | NANO NON-SOLIC SCI & ENG AWD MATERIALS AND | Simon, Sindee | 8/1/2008 - 7/31/2011 | \$250,000 |
| | | Rajesh Khare | | | |
| | | Matrix Confinement Effects in Composites and Nanocomposites: Experiments and Molecular Modeling | | | |
| <hr/> | | | | | |
| 854619 | ENG | EXP PROG TO STIM COMP RES ELECT, PHOTONICS, & | Jiang, Hongxing | 8/15/2008 - 7/31/2011 | \$328,011 |
| | | 1.54 micron optical amplifiers and emitters based upon erbium doped III-nitrides grown on silicon | | | |
| <hr/> | | | | | |
| 756762 | ENG | MATERIALS PROCESSING AND MANFG THERMAL | Takhar, Pawan | 8/15/2008 - 7/31/2011 | \$300,000 |
| | | Milford Hanna , Girish Ganjyal | | | |
| | | Multiscale Transport in Expanding Biopolymers During Extrusion: Modeling and Experimental Verification | | | |

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| | | | Title | | |
| 824748 | ENG | HAZARD MIT & STRUCTURAL ENG | Chen, Xinzong | 9/1/2008 - 8/31/2011 | \$149,934 |
| | | | Assessing Bridge Performance to Extreme Winds with Consideration of Non-Gaussian Features and System Uncertainties | | |
| 833326 | EHR | ROBERT NOYCE SCHOLARSHIP PGM | Dwyer, Jerry | 9/1/2008 - 8/31/2013 | \$888,386 |
| | | | Lawrence Schovanec , Monty Strauss , Dominick Casadonte , Tara Stevens Texas Tech Noyce Scholars Programs | | |
| 800487 | ENG | HAZARD MIT & STRUCTURAL ENG | Liang, Daan | 9/1/2008 - 8/31/2010 | \$187,922 |
| | | | Kishor Mehta , Brian Nutter Hyperspectral Imagery: A New Frontier for Windstorm Damage Assessment | | |
| 850464 | CSE | CPATH | Urban, Joseph | 9/1/2008 - 8/31/2010 | \$99,986 |
| | | | NSF CISE Pathways to Revitalized Undergraduate Computing Education (CPATH) PI Workshop | | |
| 808033 | GEO | GEOSCIENCE EDUCATION OPPORT FOR ENHANCING | Delahunty, Tina | 9/15/2008 - 8/31/2010 | \$49,976 |
| | | | Reese Todd Exploring the past, present and future landscape with elementary school students | | |

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| | | | Title | | |
| 837855 | MPS | TOPOLOGY | Gelca, Razvan | 9/15/2008 - 8/31/2009 | \$15,000 |
| | | | The Topology and Geometry of Physics Conference; Lubbock, TX, | | |
| 830655 | CSE | NUMERIC, SYMBOLIC & GEO COMPUT | Kirby, Robert | 10/1/2008 - 9/30/2011 | \$270,000 |
| | | | Kevin Long, Victoria Howle | | |
| | | | Automated Intrusive Algorithms for Numerical Simulation of Partial Differential Equations via Software-Based Frechet Differentiation | | |
| 800542 | GEO | PHYSICAL & DYNAMIC METEOROLOGY | Weiss, Christopher | 10/1/2008 - 9/30/2010 | \$544,033 |
| | | | David Dowell | | |
| | | | VORTEX 2: Storm-scale Baroclinity Using Fine-scale Observations and Numerical Models | | |
| 836028 | ENG | ENGINEERING EDUCATION | Anderson, Edward | 1/1/2009 - 12/31/2009 | \$99,006 |
| | | | James Surles | | |
| | | | Application of Statistical Classification Analysis to Engineering Student Recruitment | | |
| 829404 | BIO | PLANT GENOME RESEARCH RESOURCE | Arsuffi, Thomas | 1/1/2009 - 12/31/2011 | \$24,767 |
| | | | Grant Hall | | |
| | | | Integrated Planning of Research, Education and Facilities in the Texas Hill Country for the Llano River Field Station-Texas Tech University | | |

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| 837521 | EHR | CCLI-Phase 1 (Exploratory) S-STEM:SCHLR SCI TECH | Dallas, Tim | 1/1/2009 - 6/30/2010 | \$149,996 |
| | | | Toni Sauncy | | |
| | | | The 18mm2 Laboratory | | |
| 831420 | EHR | MSP-TARGETED AWARDS | Harris, Gary | 1/1/2009 - 12/31/2011 | \$3,688,086 |
| | | | Jerry Dwyer , Zenaída Aguirre-Munoz , Tara Stevens , Warren Koepp | | |
| | | | The West Texas Middle School Math Partnership | | |
| 934348 | ENG | PROCESS & REACTION ENGINEERING | Rengasamy, | 1/1/2009 - 8/31/2010 | \$136,982 |
| | | | GOALI: An Integrated Framework for Stiction Detection and Compensation in Control Loops | | |
| 832697 | BIO | HUMAN RESOURCES | Wallace, Mark | 1/1/2009 - 12/31/2011 | \$299,512 |
| | | | Gad Perry , Peter Muhlberger, Howard Curzer | | |
| | | | Filling the gap: improving education on the ethics of animal use in biological field research | | |
| 840493 | MPS | CHEMICAL INSTRUMENTATION | Casadonte, Dominick | 2/1/2009 - 1/31/2012 | \$525,325 |
| | | | Gregory Gellene , William Hase, Jorge Morales , Lionel Poirier | | |
| | | | A Cluster for Cyber-Enabled Research and Education in Computational Chemistry | | |

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| 838342 | GEO | PETROLOGY AND GEOCHEMISTRY | Yoshinobu, Aaron | 3/15/2009 - 2/28/2010 | \$102,611 |
| | | | Calvin Barnes | | |
| | | | Collaborative Research: Evaluating the Tempo, Size, and Chemical Connectivity of Magma Batches in a Tilted Plutonic Complex | | |
| 844035 | SBE | LINGUISTICS | VanPatten, Bill | 4/1/2009 - 3/31/2011 | \$12,000 |
| | | | Jill Jegerski | | |
| | | | Doctoral Dissertation Research: Testing the Limits of Adult SLA: A Psycholinguistic Study of Near-Native Sentence Processing | | |
| 854463 | ENG | ENERGY FOR SUSTAINABILITY | Khare, Rajesh | 5/1/2009 - 4/30/2012 | \$300,000 |
| | | | Muhammad Karim , Guigen Li, Brandon Weeks | | |
| | | | Computational and Experimental Studies of Cellulose Degradation for the Production of Biofuels | | |
| 946688 | MPS | POLYMERS | Hedden, Ronald | 6/15/2009 - 2/28/2010 | \$96,601 |
| | | | SGER: Stress Relaxation Mechanisms in End-Linked Main-Chain Smectic Elastomers | | |
| 906879 | MPS | ELECTRONIC/PHOTONIC MATERIALS | Lin, Jingyu | 7/1/2009 - 6/30/2012 | \$475,183 |
| | | | Hongxing Jiang | | |
| | | | Bridging the Miscibility Gap in InGaN Alloys | | |

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| | | | Title | | |
| 904834 | O/D | PetaApps | Long, Kevin | 7/1/2009 - 6/30/2012 | \$269,719 |
| Collaborative Proposal: Uncertainty quantification for petascale simulation of carbon sequestration through fast ultra-scaleable stochastic finite element methods | | | | | |
| 933941 | MPS | POLYMERS CONDENSED MATTER PHYSICS | McKenna, Gregory | 7/1/2009 - 6/30/2010 | \$5,000 |
| 6th International Discussion Meeting on Relaxations in Complex Systems; Rome, Italy, August 30 - September 5, 2009 | | | | | |
| 900512 | ENG | NANO AND BIO MECHANICS | Khare, Rajesh | 8/1/2009 - 7/31/2012 | \$147,729 |
| Collaborative: Brittle Epoxies Rendered Ductile - Crazeing in Thermosetting Epoxy Nanocomposites | | | | | |
| 909736 | MPS | ELECTROCHEMISTRY & SURFACE CHE | Korzeniewski, Carol | 8/1/2009 - 7/31/2013 | \$487,493 |
| Elucidating Processes that Limit Energy Transfer in Electrocatalysis | | | | | |
| 847736 | MPS | BIMOLECULAR PROCESSES | Mayer, Michael | 8/1/2009 - 7/31/2014 | \$546,784 |
| CAREER: Preparation of Materials Composed of Mechanically Interlocked Nanoscale Species | | | | | |

L. Summary of NSF Awards to Texas Tech

| Award | Directorate | Program | Principal Investigator | Start Date - End Date | Amount |
|--|-------------|----------------------------|-------------------------|-----------------------|-----------|
| | | | Co-PIs | | |
| | | | Title | | |
| <hr/> | | | | | |
| 934305 | MPS | POLYMERS | McKenna, Gregory | 8/1/2009 - 7/31/2011 | \$126,811 |
| Collaborative Research: EAGER Proposal on Non-Homogeneous Flow Fields in Nonlinear Rheology: A Challenge to Current Paradigms? | | | | | |
| <hr/> | | | | | |
| 908192 | MPS | GALACTIC ASTRONOMY PROGRAM | Wilhelm, Ronald | 8/15/2009 - 7/31/2010 | \$4,761 |
| Collaborative Research: Distances to High Velocity Clouds | | | | | |