Architecture,	Faculty	
Architecture,	Carrion Awild	a Rodriguezr
	Carrion 7 Wild	Computer-Aided design and architectural drawing
		Computer-Aided Manufacturing
		Digital Technologies
		Hospitality Architecture
		Intelligent Materials
		Responsive Environments & Spatial Identity
	Carrissa Ramn	
	Currissu runn	Design and analysis of steel structures and engineering mechanics
		Special interest in classical and numerical structural analysis
	Jeanne Homer	
		collaboration and integration of systems
	Jeff Williams	
		Architectural Design
		Computer applications in the design studio
		The history of architecture through the ages
		The relationship between contemporary and historical architecture
		Urban issues in design
	Jerry Stivers	č
	5	Architectural Design/Analysis
		Architectural History
		Urban Design
	John Womack	
		Design Communications, methods
		Freehand drawing and watercolor painting
		History of world cultures and architecture with a particular focus on the architecture of
		U.S. Route 66
		Regional design and the integration of site, program, and building materials into an
		organic synthesis
		The art and cultures of Japan and the American Indian
	Michael Raber	
		American architecture of the 19th and 20th centuries.
		History of Renaissance/Baroque architecture particularly that of 17th century France
	Mohammed B	
		Architectural Analysis
		Architectural design and representation
		Graphic Thinking and communication
		History of Islamic Architecture
		Visual Literacy
	Nathan Richar	
		Design, practice and project delivery in architecture with a particular focus on the role of
		real estate expertise and entrepreneurship in the profession and the production of the built
	D 1 G	environment.
	Paolo Sanza	
		Adaptive Reuse
		Computers
		Design Studio
	Dender Celtein	Materials
	Randy Seitsing	
		Architectural design
		Computer applications in the design studio
		History and theory of art Oklahoma architecture
		Representational methods for design projects Theatre set design
		The history of architecture through the ages, with particular interest in medieval
		architecture and culture
	Seung Ra	
	Scully Ka	

Digital Design & Practice

	Interdisciplinary Design
Stan Carroll	
Steven O'Hara	l
	Design and analysis of concrete structures, steel structures, timber structures, and
	masonry structures
	Special interest in classical and numerical structural analysis
Susan Bobon	
	Faculty/Librarian Collaboration
	Improving Information Literacy and Writing Skills among Architecture Students
	New Library Architecture
	Oklahoma's Built Environment
Suzanne Bilbe	PISI
	Engineering Education
	History of western architecture and its' influence on contemporary western architecture
	The methods and means of teaching beginning design students
Tom Spector	
	Architecture design theory, especially as it relates to professional practice issues
	Developing topics in architectural design ethics
	Moral philosophy
	Theory and practice of perspective drawing

Avdhesh Tyagi	
	Bridge and Culvert and Scour Modeling
	Finite Element Modeling Fuzzy Theory to Ground Water Modeling
	GIS applications to surface water modeling
	Remediation of Hazardous Waste Sites
Bruce Russell	
	Concrete Materials
	Structural concrete
David Lampert	
	INFEWS
	Life cycle assessment Contaminant fate and transport modeling
	Remediation of contaminated sites
	Wastewater treatment
	Hydrologic and water quality modeling
	Python programming
Gregory Wilber	
	Biological Treatment of an Industrial Waste Stream Containing Waste Ink and Surfactants
	Examining the Effects of Various Environmental Factors on the Biotransformation of
	Chlorinated Aliphatic Compounds in Landfills
	Nitroaromatic compounds (such as TNT and RDX) in soils and in engineered treatment
	systems
John Veenstra	
	Disinfection By-Products in drinking water
	Drinking Water Treatment Increasing the Participation and Advancement of Women in Academic Science and
	Engineering - National Science Foundation
Julie Hartell	
	Construction Materials
	Concrete Durability
	Nondestructive testing and monitoring methods
Kelvin Wang	Infrastruction Condition Assessment
Kervin wang	Automated Cracking Survey
	Automated Technologies for Pavement Survey and Pavement Data Systems for Design
	and Management
	Paving the way for improvements
Mark Krzmarzick	Impact of oil/good meduction fluids on soil mismobial communities
	Impact of oil/gas production fluids on soil microbial communities
	PCB and TCE bioremediation with the co-amendment of natural organochlorines
	Reduction of 2,4-dinitrophenol and study of nitro-reductase genes in soil bacterial
	communities.
Mohamed Soliman	
	Behavior of structures under extreme events
	Fatigue and fracture in steel and aluminum structures Sustainability and life-cycle management of structures deteriorating due to aging and
	natural hazards
	Reliability of structural systems
	Structural Health Monitoring
	Resilience of infrastructure systems
	Risk assesment and risk-based decision making
Norb Delatte	Concrete Materials
	Structural concrete
	Engineering Education
	Nondestructive testing and monitoring methods
	Failure Analysis and Forensic Engineering

	Roller Compacted Concrete
	Pervious Concrete
	Concrete Pavement
Paul TIkalsky	
	Concrete Materials
Qiang (Joshua) Li	
	Mechanistic-Empirical based Pavement Design (MEPDG)
	Data Automation for Pavement Surface Characterization and Evaluation
	Sustainable and Resilient Infrastructure Asset Management
	3D Simulation of Vehicle-Pavement Interaction for Pavement Safety
Rifat Bulut	
	Unsaturated and Expansive Soils
	Soil Stabilization
	Pavement Foundations on Expansive Soils
	Soil-Structure Interaction
	Surface Energy Characterization of Asphalt Pavement Materials
Robert Emerson	
	Nondestructive evaluation of structural materials and structural engineering concepts in
	durable and affordable housing
	Timber and Concrete Engineered Structures, including research and development of
G · A A1 1	engineered structural products and systems
Samir A. Ahmed	
	Design, planning, and management of transportation systems and facilities
	Highway traffic operations and control
	Intelligent transportation/ infrastructure systems and facilities
	Public Transportation Systems
	Transportation Safety
	Systems Modeling, Simulation, and Optimization
Steve Cross	
	Asphalt Pavement Construction
	Pavement recycling
	Soil Stabilization
Tyler Ley	
	Development of a Passive Corrosion Sensor - OTC
	Implementation of the MEPDG Design for Oklahoma - ODOT
	Investigation of Precast Bridge Deck System - OTC
Xiaoming Yang	
	Soil and Rock Mechanics
	Numerical Analysis on Geotechnical Problems
	Design and Application of Geosynthetics
	Geotechnical Design Reliability
Yongwei Shan	
	Construction productivity measurement and improvement
	Building Information Modeling for Engineering, Construction, and Facility
	Management
	Effective Engineering Information Delivery
	Technology Implementation and Diffusion

Chemical, Faculty

Alan Tree	
	Material Science
Ashlee Ford-Versypt	Polymers
Ashiel I old-versypt	Systems biomedicine
	Mathematical biology
	Multiscale computational modeling
	Nonlinear dynamic systems
	Pharmaceutical drug delivery Transport through heterogeneous media
	Physiology related to cancer and diabetic kidneys
	Engineering education and STEM outreach
Brian Neely	
Clint Aichele	Fundation Francestica and Oct 1114
	Emulsion Formation and Stability Gas Treating
	Improved Separations for Algae Fuel Production
Geir Hareland	r
	Drilling Optimization and Drill Bit Modeling
	Rock Mechanics in Drilling and Completion Operations
	Drilling Fluids and Hydraulics Drilling System Parameter Integration and Optimization
	Well Completions and Stimulation Optimization
	Cementing
Heather Fahlenkamp	-
	Tissue Engineering: Advanced Tissue-Equivalent Models to Study Inflammation
	Associated with Vascular Complications, Allergens, and Infectious Agents.
	Drug Delivery: Nanoparticles and Biomembranes for Controlled Delivery
Jindal Shah	
	Monte Carlo and Molecular Dynamics Simulations
	Phase Equilibria Ionic liquids
	Dye-sensitized solar cells
Joshua Ramsey	
	Engineering Novel Gene Delivery Vectors
	Improving Industrial Relevant Enzymes and Microorganisms Microbial Deterioration of Concrete Infrastructure
	Virtual Design and Screening of Therapeutic Compounds
Marimuthu Andiappan	Andar Design and Selecting of Thetapearle Compounds
Peter Clark, Professor	
Prem Bikkina	
	Interfacial phenomena relevant to geological sequestration
	Enhanced oil recovery (EOR) using ASP, CO2, and CO2 foams
	Multi-phase emulsion characterization
	CV- Prem Bikkina
Robert (Rob) Whiteley	Distillation
	Ethanol Separation for Biofuels
	Process Monitoring/ Controls/Optimization
	Robert (Rob) Whiteley, Distillation
Runar Nygaard	
Russell Rhinehart	
Russen Rinnenalt	Process improvement (modeling, optimization and control)
	Product improvement (modeling and design)

Sayeed Mohammad	
Seokjhin Kim	
	Inorganic Membranes and Thin Films of Nanostructured Materials
	Controlled-Pore-Size Membranes for Water Purification and Hydrocarbon
	Separation
	Gas Transport and Diffusion Study in Modified-Pore Membranes
Sundar Madihally	
	Reactor Design
	Scaffold Sythesis
	Stem Cell Based Tissue Engineering
	Trauma Induced Muscle Wasting and Drug Delivery
Yu Feng	
	Computational Fluid-Particle Dynamics and Advanced Numerical Methods
	Physiologically Based Pharmacokinetic (PBPK) Modeling
	Particulate Matter Transport Phenomena
	Lung Aerosol Dynamics

Carl Latino	
	Digital System & Logic Design
	Fractals & Chaotic Systems Microprocessor Systems and Architecture
	Multi Processor System Design Robotics
Chris Hutchens	C. Hutchens, Labs
	Chris Hutchens, Secure memory
	Design of large geometery (in excess of 1mm width transistors) short channel transistors for GHz applications
	High speed and low power MCOS analog to digital converters (ADC) and digital to analog converters (DAC) on deep submicron thinfilm Silicon CMOS
	low power sigma delta and several 4 bit GHz flash ADCs, a 4 bit DAC and a MEMS chopper amplifier for an integrated power meter
	Microelectromechanical systems (MEMS) transducers and transducer amplifiers
	Mixed mode CMOS VLSI including analog, MIMS and digital electronics, sensor/transducer systems and biomedical engineering
Chuck Bunting	Analysis of optical and microwave structures using numerical methods including
	finite element techniques.
	antenna systems and radio frequency (RF) design Computational electromagnetics
	Electromagnetic characterization and application of reverberation chambers
Daniel Grischkowsky	Engineering Education
	Laser Science
	Optical and THz Science and Engineering
Daqing (Daching) Piao	Ultrafast Optoelectronics
1 0 (0)	Endoscopic imaging by coherent optical techniques
	Endoscopic imagining by diffuse optical techniques Modeling and instrumentation for biomedical optical imaging
	Optical Imaging Laboratory (OIL)
Gary Yen	
	Intelligence Control Neural Networks
George Scheets	
	Communications Systems and Theory
	Computer Simulation Network Analysis & Design
	Signal Processing
Guoliang Fan	
	Computer Vision and Mutimedia Digital Image and Video Processing
	Machine Learning and Pattern Recognition
James Stine	
	Computer Arithmetic Digital Circuit and System Design
	General-Purpose and Application-specific Architectures
	Very Large Scale Integration (VLSI)
James West	
	Antenna Design and Analysis Microwave Systems
	Numerical Electromagnetics
	Radar, Radar Scattering
Jaffray Vouna	Radar Remote SensingSynthetics Aperture
Jeffrey Young	Antenna Theory and Design
	Microwave Ferrite Materials and Devices
	Electromagnetic Field Theory
	Computational Electromagnetics

Laser Application Laser Engineering and Development Laser Spectroscopy Nonlinear Optics Keith Teague Low Bit Rate Speech Coding Speech/Signal/Image Processing Martin Hagan Control Systems Neural Networks Signal Processing Nishantha Ekneligoda Over electronic based controls Micro-grids and distributed energy resources Nonlinear optimal control and game theory Electric machines and drives Qi Cheng Communications and Information Theory Distributed Detection Distributed Detection and Estimation Monte Carlo Methods K.G. Ramakumar Energy Conversion, Renewable Energy Engineering Reliability Power Engineering Sources and Systems Cyber-Physical Systems Sustainable Computing and Networking Systems Sabit Ekin Communications Systems and Theory Statistical Signal Processing Methods and Its Applications to Communication Systems Cognitive Radio Networks Interference Modeling Prover Signal Systems Subhash Kak Cyber-Physical Systems Cognitive Radio Networks Quantum Computing Wireless and Sensor Networks Quantum Computing Communication Systems Subhash Kak Communication Subtems Subhash Kak Communication Communication Subtems Subhash Kak Communication Communication Subot Subhash Kak Communication		EM Waves in Complex Media
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Engineering Reliability Power Engineering Sources and Systems, Energy Storage Richard Guo		Energy Conversion, Renewable Energy
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Big Data Mobile Computing	Yanmin Gong	
Mobile Computing		
Cyber-physical Systems		
		Cyber-physical Systems

Arash Pourhabib	
	Modeling and Analysis of Advanced Manufacturing Systems
	Statistical Machine Learning
Austin Buchanan	System Informatics and Control
Austill Duchanan	Combinatorial Optimization
	Integer Programming
	Design and Analysis of Networks
	Operations Research
Balabhaskar (Baski)	• <u>F</u>
Balasundaram	
	B. Balasundaram, Labs
	Algorithms
	Graph Theory
	Network Design & Analysis
	Operations Research
	Optimization
	Linear Programming
	Integer Programming
Comilla DaVana	Prescriptive Analytics
Camille DeYong	Economic Analysis
	Service Quality and Customer Satisfaction
	Total Quality Management
Chaoyue Zhao	Tour Quarty Manuforment
	Stochastic integer programming
	Data-driven risk-averse stochastic optimization
	Power grid security
	Energy policy analysis and renewable energy management
David Pratt	
	Manufacturing Systems
	Production Planning and Control
	Simulation
	Strategic Management Processes
Farzad Yousefian	Our a Ortigi stice
	Convex Optimization Variational Inequalities and Games
	Stochastic Approximation Algorithms
	Distributed Optimization
	Power Systems and Markets
John Nazemetz	
	Computer-aided manufacturing
	Robotics
	Coalition in support of the aviation sector (CASI)
Kalyani Nagaraj	
	Monte Carlo methodology and analysis
	Simulation optimization
	Rare event simulation
Manjunath Kamath	
	Information Systems
	Object-Oriented Modeling and Simulation
	Performance Modeling of Manufacturing Systems and Supply Chains Petri net Modeling
	Stochastic Modeling and Queuing Theory
Sunderesh Heragu	Stochastic Modeling and Queunig Theory
Sunderesh Herugu	Real-time Decision Support
	Mathematical Programming
	Queuing Network
	Emergency Preparedness
	Design & Analysis of Warehouses
	Performance Analysis of Material Handling Systems
Terry Collins	
	Bio-energy research & development
	Cost Modeling and estimation
	Engineering Management
	Management decision theory Performance measurement system development & assessment
	Performance measurement system development & assessment Project Management
Tieming Liu	rojeet munugement

	Supply chain coordination
	Transportation and logistics planning
	Revenue management and dynamic pricing
	Renewable energy capacity coordination
	Healthcare data analytics
Tim Hardin	·
	Engineering Management
	Engineering economics
	Engineering finance
	Work design
William J. Kolarik	
	Process definition, design, control/measurement, and improvement
	Quality system design, analysis, and modeling
	Reliability analysis and modeling
	-

Mechanical and Aerospace, Faculty

A. Kaan Kalkan	A. Kalkan, Labs
	Biomedical Monitoring Bottom-up Nanofabrication via Plasma/Solution Chemistry Manufacturing and Materials Nanodevices, Nanosensors Nanostructured Materials
Afahin I Chaine	Single Molecule Detection and Imaging
Afshin J. Ghajar	Computational Heat Transfer and Fluid Mechanics Heat in Transfer in Mini/Micro Channels Mixed Convection Heat Transfers Thermal and Fluids Sciences
Andrew S. Arena	Two-Phase Flow Heat Transfers
Andrew 5. Archa	A. Arena, Labs
	Aerodynamics and Flight Dynamics Aerospace Vehicle Stability and Control
	Aircraft Performance
Arvind Santhanakrishnan	Nonlinear Flight Dynamics Unsteady and High Angle of Attack Aerodynamics Aeroelasticity
Alvino Santianakiisinan	A. Santhanakrishnan, Labs
	Biofluid Mechanics
	Bio-Inspired Design Experimental Fluid Mechanics
	Flow Control
	Fluid-Structure Interaction Medical Device Design, Development and Validation
Aurelie Azoug	Mechanical Behavior of Materials
	Smart Materials
	Elastomers
	Viscoelasticity Hyperelasticity
Balaji Jayaraman	Computational Fluid Dynamics and Advanced Numerical Matheda
	Computational Fluid Dynamics and Advanced Numerical Methods Turbulence
	Turbulence Modeling: DNS, LES and Hybrid URANS/LES
	Aerodynamics Geophysical Flows
	Lagrangian Transport and Particulate Flows
	Flow Control Reduced order Modeling
	Inverse Problems
	Bio-fluid Dynamics Multimaterial and Multiphase Flows
	Moving Boundary Phenomena
Brian Elbing	Plasma Physics
	Experimental Fluid Mechanics
	Multiphase Flow Flow Control
	Flow Control Flow Visualization and Imaging
	Drag Reduction
	Hydrodynamics Fluid-structure-interactions
	High-speed gear Lubrication
Charlotte Fore	Flow Noise Reduction
Christian Bach	Heat Dumme and Air Conditioners
	Heat Pumps and Air Conditioners Virtual Sensors for Vapor Compression Systems
	Evaporators, especially with respect to
	Flow Control and Flow Distribution Frosting and Fouling
	Optimization of Defrost Process
	Compressor Performance Improvement Heat Recovery
Craig Bradshaw	
	Thermal and Energy Systems Positive-Displacement Equipment Modeling
	Waste-Heat Recovery
Daniel E. Fisher	Building energy analysis and load calculation D. Fisher, Labs
	Displacement ventilation and chilled ceiling systems
	Numerical heat transfer and fluid flow Simulation of Building Systems
	Thermal and Fluids Sciences
Don A. Lucca	Thermal system simulation and design
	D. Lucca, Labs

	Manufacturing and Materials
	Nanomechanical properties of materials
	Precision engineering Surface mechanics/surface engineering
	Ultraprecision manufacturing and synthesis process
Ehsan Moallem	Air Conditioning (HVAC)
	Experimental Measurements of Flow
	Heat Exchangeres and Microchannels
	Heat Transfer Calculation and Two-Phase Flow Numerical Simulation (CFD)
	Refrigeration Cycles and Heat Pumps
He Bai	Demonstrate and Controls
	Dynamics and Controls Nonlinear and Adaptive Systems
	Robotics and Automation
	Multi-Agent Systems Sensor Fusion
	Planning, Control, and Estimation for Unmanned Systems
	Sense-and-Avoid
	Intelligent Systems Integration of UAS into National Airspace
J. Keith Good	
	Applied Mechanics and Design
	Experimental Stress Analysis Finite Element Analysis
	Instrumentaion
	K. Good, Labs
	Machine Design and Analysis
	Materials and Failure Analysis
James Kidd	Solid Mechanics
Suntos Triad	Aero-Optics and Sensors
	Engineering Professional Development
	Flight Dynamics and Controls Fluid Dynamics
	Manned and Unmanned Aerial Systems Integration and Flight Test
James Manimala	Solid and Structural Dynamics
	Experimental Mechanics
	Acoustic Metamaterials
	Smart/ Adaptive/ Multifunctional Structures and Materials Flexible Nanocomposites
Jamey Jacob	reviou runocomposites
	Aerodynamics and Flight Dynamics
	Bio-Fluid Flow Flow Control
	Inflatable Aerostructures
	J. Jacob, Labs
	Plasma Physics
	UAV Design & Flight Testing Vortex Dynamics
	votex Dynamics
Jay C. Hanan	
Jay C. Hanan	Advanced Structural Materials (2 new patent pending high strength materials)
Jay C. Hanan	Advanced Structural Materials (2 new patent pending high strength materials) Applied Mechanics and Design
Jay C. Hanan	Advanced Structural Materials (2 new patent pending high strength materials) Applied Mechanics and Design Automation and data processing
Jay C. Hanan	Applied Mechanics and Design Automation and data processing Increasing useful service life
	Applied Mechanics and Design Automation and data processing
Jay C. Hanan Jeffery D. Spitler	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations
	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps
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Jeffery D. Spitler	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences
Jeffery D. Spitler	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints
Jeffery D. Spitler Jerome Hausselle	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling
Jeffery D. Spitler	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders
Jeffery D. Spitler Jerome Hausselle	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics
Jeffery D. Spitler Jerome Hausselle Karl N. Reid	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Mystems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences Pressure Gain Combustion Gas Turbines
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Mystems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences Pressure Gain Combustion Gas Turbines Unmanned Aerial Systems Propulsion Mechanical Behavior of Materials
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences Pressure Gain Combustion Gas Turbines Unmanned Aerial Systems Propulsion Mechanical Behavior of Materials Nanoindentation
Jeffery D. Spitler Jerome Hausselle Karl N. Reid Khaled A. Sallam	Applied Mechanics and Design Automation and data processing Increasing useful service life Non-destructive analysis Building Energy Analysis and Load Calculations Ground Source Heat Pumps Thermal and Fluids Sciences Thermal and Fluids Sciences Thermal Systems Simulation and Design Biomechanics Musculoskeletal Modeling Artificial Joints Musculoskeletal Disorders Control Strategies Longitudinal Dynamics Atomization & Sprays Bio-Flows Droplet-based Microfluids Fluid Dynamics Holography Laser Diagnostics Nanofibers and Nanparticles Thermal and Fluids Sciences Pressure Gain Combustion Gas Turbines Unmanned Aerial Systems Propulsion Mechanical Behavior of Materials

Omer San	
	Fluid dynamics Turbulence modeling and large eddy simulations Geophysical flows Multiphase and multimaterial flows High performance computing
	Model reduction and optimization
	Computational mathematics and numerical methods
Rushikesh Kamalapurkar	Data-driven Control Nonlinear Control Reinforcement Learning Intelligent Machines
Raman P. Singh	Andial Mashanian and Davian
	Applied Mechanics and Design Composites Experimental Mechanics and Advanced Materials Polymer Derived Ceramics Polymer Nanocomposites Raman Singh, Labs
Robert Taylor	
Kobert Taylor	New product design for manufacturing New process design for manufacturing Measurements and instrumentation Electromechanical system design Antennas R.Taylor, Labs
Sandip P. Harimkar	
	Biomaterials: Processing, Characterization and Mechanical/Bio-properties
	Laser Processing of Materials: Machining, Forming, Micromachining Manufacturing and Materials Nanotechnology: Nano-composites and Nano-coatings Pulse Electrodeposition: Amorphous and Nanocomposite Coatings S. Harimkar, Labs
	Spark Plasma Sintering: amorphous alloys, Nanoceramics: nanocomposites
Shuodao Wang	Surface Engineering: Ceramic-, Composite-, and Amorphous-Coatings Thermal Modeling
	Mechanics and Process Optimization of Transfer Printing Techniques for Micro- electronic Systems Mechanical Actuators and Sensors Bio-inspired and Bio-integrated Electronics Theoretical and Experimental Solid Mechanics
Xiaoliang Jin	Micro-Machining Nano-Machining Machining of Aerospace Materials Cutting Mechanics and Dynamics Precision Control of Machine Tools

Do Young Kim	
	Colloidal inorganic nanomaterial synthesis
	Low cost solution processed organic and inorganic photodetectors
Jamas Smarr	Organic and organometal halide perovskite photovoltaic devices Organic and quantum dot light emitting diodes (OLED & QD-LED) Organic thin film transistors and organic light emitting transistors
James Smay	Colloidal Processing of Martials Direct Write Manufacturing Encouraging STEM Education in the Native American Community Materials Science Rheology of Complex Fluids
Nirmal Govindaraju	Wide bandgap semiconductors for high-temperature, high power, and radiation hard electronics
	Nanomaterials for thermal management and advanced packaging applications
	Design and development of thermal, electrical, and optical property measurement systems
	Nanomaterials for sensor technology development Nanomaterials for biological imaging and drug delivery Solid oxide fuel cells
	High density energy storage - high k dielectric materials and batteries
Pankaj Sarin	Fuel Cells: Oxide ceramic electrolytes for high temperature proton conducting SOFCs Energy Storage Materials: Novel framework structures for rechargeable battery electrodes
	 High Temperature X-ray Diffraction/Scattering: Phase transition, thermal expansion, and oxidation properties Biomaterials: Biotemplating of highly porous HA/CaP scaffolds for controlled biodegradation and osteogenesis Thermal Management: Geopolymers for solar heat storage Composites: Ultra High Temperature Ceramic (UHTC) composites for aerospace applications; ceramic armor
	M3 Ceramics: Micro-Meso-Macroporous ceramics for water purification
Paul Tikalsky	Concrete materials
Raj Singh	Nanostructured Materials: Diamond thin films, BN-Nanotubes Energy Storage Materials: Materials for Li-Ion and Na-S Batteries Biomaterials: Nanomaterials for drug delivery and biocompatibility/functionality Thermal Management: Diamond thin films for thermal management of electronics Fuel Cells: Electrode, Electrolyte and Self-repairable sealing materials for SOFC
	Composites: High temperature ceramic composites processing and properties
	Electrical Ceramics: Piezoelectric and shape-memory materials processing and properties
Ranji Vaidyanathan	Manufacturing scale-up and product development for large composite parts for aerospace and energy sectors
	Interlaminar modification of polymer and ceramic composites for improved toughness and energy absorption using nano-sized fillers

Recycling of materials into high-value engineered products (carpet, foam, tires, composites) Structure-property relationships (Mechanical, Electrical, Magnetic, Thermoelectric, Biological etc.) of composite materials Nanotechnology for energy and biomedical applications

Rapid manufacturing and rapid prototyping of advanced engineering materials

Ajay Kumar	
	Bioenergy & Bioprocessing
	Biofuels
	Biopower
	Bioproducts
	Gasification
	Pyrolysis
Al Sutherland	
	Agricultural Weather and Climate
	Agricultural Weather Applications
Carol Jones	
	Machinery Systems
	Bioprocessing
	Biomechanical
	Electromagnetism
	Farm Safety
	Grain Bin Safety
	Grain Storage
	Stored Products
	Post Harvest Technology
Dan Storm	
	Environmental Quality, Water
	Ecological Engineering
	Environmental Statistics
	Tribal Water Issues
	Water Quality
	Watershed Modeling
Daniel L. Thomas	c
	Water
	Drainage
	Irrigation
	Precision Agriculture
	Water Resource Engineering
Danielle Bellmer	
	Food Processing
	Bioenergy & Bioprocessing
	Value-added Product Development
	Waste Utilization
Doug Hamilton	
-	Environmental Quality, Waste Management
Garey Fox	
·	Environmental Quality, Water
	Nutrients
	Rivers
	Streams
	Water Quality
	Water Quantity
Glenn Brown	
	Environmental Quality, Water
	Contaminant Transport
	Low Impact Development
J.D. Carlson	

	Environmental Quality, Weather
	Oklahoma Mesonet
	Wildland Fire Meteorology and Behavior
	Atmospheric Dispersion
	Boundary-Layer Meteorology
	UAV Applications in Wildland Fire
	Remote Sensing Applications
	Operational Weather-Based Models
	Agricultural Meteorology
	Remote Sensing
	UAVs
	Weather Modeling
	Wildland Fire
Jason Vogel	
8	Environmental Quality, Water
	Emerging Contaminants
	Environmental Pathogens
	Erosion Control
	Hydrology
	Low Impact Development
	Stormwater
	Stream Restoration
	Water Quality
Jessie Yu Mao	
	Biomaterials
	Nanomaterials
	Biomedical Engineering
	Enzyme Engineering
	Biosensors
John Long	
	Instruments & Sensors, Machine Systems, Precision Ag
	Intelligent Machine Systems
	Mechatronics
	Precision Livestock Management
	Precision Pasture Technology
	Sprayer Technology
TT 4/1 1	Sprayer Technology
Hasan Atiyeh	
	Bioenergy & Bioprocessing
	Bioprocess Engineering
	Gas & Sugar Fermentation
	Modeling
	Reactor Design & Scale Up
Michael Buser	
	Bioenergy & Bioprocessing, Environmental Quality, Machine Systems
	Abatement Technologies
	Air Modeling
	-
	Air Quality
	Air Sampling
	Bioenergy Logistics
	Controlling Air Emissions
	Forage Production
	Forage Storage
	Machinery Design
	Pneumatic Systems

	Standards Development
	Traceability
Ning Wang	
0 0	Instruments & Sensors, Machine Systems
	Automation
	Information Technology
	Machine Vision
	Mechatronics
	Precision Agriculture
	Robotics
	Sensor Aid Control
	Sensor Network
Nurhan Dunford	
	Bioenergy & Bioprocessing, Food Processing
	Grain Processing
	Microalgae
	Oilseed Processing
	Value-added Product Development
	Vegetable Oil Processing and Quality
	Waste Water Treatment & Reuse
Paul Weckler	
	Instrumentation, & Sensors, Controls
	Electromechanical System Design
	System Integration & Testing
	Machine Vision Systems
	Digital Image / Signal Processing
	Electro-Optical Sensor Systems
	Airborne Remote Sensing
	Automated "Smart Machines"
	Food & Crop Processing
	Soil & Water Conservation
	Irrigation Engineering
R. Scott Frazier	
	Bioenergy & Bioprocessing, Water
	Energy Management
	Fuels
	Irrigation Energy
	Life Cycle Assessment
	Renewable Energy
Dowmond I Unihulia	Sustainability
Raymond L. Huhnke	Diamana & Diamaggaing
	Bioenergy & Bioprocessing Biomass Gasification
	Biomass Logistics Biobased Products & Energy Center (DIRECTOR)
Randy Bean	Sun Grant Program
Nahuy Deall	Machine Systems
	Ag Electricity
	Ag Structures
	Plasma Cam
	Small Engines
	Singi Liginos

	Welding
Randy Raper	
	Oklahoma Agricultural Experiment Station
Randy Taylor	
	Machine Systems, Precision Ag
	Ag Machinery
	Crop Production
	Machine Testing
	Precision Agriculture
Saleh Taghvaeian	
	Instruments & Sensors, Water
	Irrigation
	Remote Sensing
Tim Bowser	
	Design of Food Equipment
	Facilities and Processes
	Cleaning and Sanitation
	Food Safety

Division of Technology

Construction Management Technology, Faculty	
Heather Yates	
	Construction Management
	Construction Materials Testing and Inspection Women and STEM Education
Gouranga Banik, Professor and School	
Souranga Bank, Professor and School	Resilience and Sustainability
	Food-Energy-Water Nexus
	Sustainable Materials
	STEM Education
Jonghoon Kim	
	Self-Sufficient Buildings
	Water-Energy-Food Nexus
	Underground Construction Technology (e.g, trenchless
Lantz Holtzhower	technology)
Lanz Honzhower	Energy and Water Conservation
	Implementation of Low Energy and Net-zero Energy Buildings
	into the Institutional Construction Market
	Nat zono Engress Dividings and Oscaroll Systematics
	Net-zero Energy Buildings and Overall Sustainable Construction
Mark Pruitt	
	Building Systems
	Construction Law
Rachel Mosier	Design-build and Integrated Project Delivery Systems
Rachel Moster	Construction Indoor Air Quality
	Structures (timber, concrete, and steel) under Construction and
	Fire loads
	STEM Diversity and workforce development
	Construction Education
	Airport and Transportation sustainability, pavement, and
	construction equipment
Electrical Engineering Technology, Faculty	
Antone Kusmanoff	
	Parallelism in Affordable Concentrated Architectures
	HPC Applications to Support Tactical and Industrial Applications
	STEM Educational Objectives for Parallel Processing
	, , , , , , , , , , , , , , , , , , ,
Assistant Caller	Communications Systems and Theory
Avimayo Sahoo	Event triggered adaptive control
	Event-triggered adaptive control Event-based control of cyber physical systems
	Neural network based control
	Lnear, nonlinear and optimal adaptive control
Brian Norton	Enoui, nominiour una optimur adaptive control
	Facility Electrical Infrastructure
	Power Systems
Ellis Nuckolls	
	Data Acquisition
	Embedded Microcontrollers
	Engine Controllers
Imad Abouzah	
	Control

Data Acquisition Expert LabVIEW Programming

ire Protection & Safety Technology, Faculty Bryan Hoskins	
	Life Safety Design and people movement
Ed Kirtley	Structural Design
Eu Klittey	Community Risk Reduction
	Fire Protection Management
	Issues in Local Government & Fire Services
Floyd Luinstra	
	Fire Investigation
Jarett Metheny	Life Safety
Jarea Metheny	Firefighter Occupational Health & Safety
	Hazardous Materials
	Municipal Fire Protections
	Emergency Management
John Stevens	
	Environmental
Haejun Park	Industrial Hygiene
Hacjuli Falk	Fire dynamics
	Fire modelling
	Performance-based fire safety design
	Fire experiment design
	Building design effects on fire performance of building
Leslie Stockel	
	Safety
	Health
Qingsheng Wang	E D
	Emergency Response Fire and Process Safety
	Fire Suppression and Detection
	Flame Retardant Polymer Nanocompositites
	Materials Flammability
	Thermal Analysis and Calorimetry
Robert Agnew	
	Confined Spaces
	Arc Flash
	Electromagnetic Energy Vapor Intrusion
	Emergency Response
Virgina Charter	
č	Building and Fire Code Applications
	Egress Analysis
	Smoke Control Analysis
	Fire Suppression Systems
	Water Supply Analysis STEM Education and Accreditation
	Women and STEM Education
Aechanical Engineering Technology, Faculty Aaron Alexander	
	Acoustical Engineering
	Computational Fluid Dynamics
	Industrial noise

	Wind Energy
Chulho Yang	
	Vibration and Acoustics
	Design Optimization and Automation
	CAD/CAM/CAE
	Structural Dynamics and Design
	Structural Health Monitoring
	Linear/Nonlinear Mechanical System Identification
	Vehicle NVH Test and Development
	Biomechanics and Protection
Hitesh Vora	
	Additive Manufacuring (3D Printing)
	Laser aided additive and subtractive manufacturing and
	characterization of advanced high-performance materials with
	emphasis on establishing processing-structure-property
	relationship.
	relationship.
	Measurement Science of Additive manufacturing: Real-time in-
	situ dimensional and property (temperature, thermal stresses,
	Young's Modulus) measurement of advance material.
	Multiphysics finite-element modeling (FEM) and simulations of
	advance manufacturing processes with emphasizing on materials
	aspects.
	Biomaterials Process and Product Development,
	Characterization, and Mechanical/Bio-properties
	Machining and manufacturing
	Lasers for advanced materials processing and surface
	engineering
Ken Belanus	
	Data Acquisition and Analysis
	Dynamics
	Finite Element Analysis
	Ground Source Heat Pumps
	Heat Transfer
	Instrumentation
	Machine Design
	Numerical Thermal and Stress Analysis
	Statics
	Strength of Materials
Richard Beier	
	Ground Source Heat Pumps
	Thermal Response Tests on Boreholes
	Heat Transfer
	Fluid Mechanics
	Petroleum Resevoir Engineering
	Flow Through Porous Media
	Applications of Fractals to Porous Media
Warren Lewis	Applications of Fractars to Forous Media
	Computer Integrated Manufacturing
	Industrial Materials
	Manufacturing Processes
	Physical Metallurgy
V D CI	Production Processes
Young Bae Chang	
	Fluid-Structure Interaction
	Firearms Dynamics
	Body Protection
	Hydraulic Fluid Power
	Pneumatic Fluid Power