Dr. Ricardo Jacquez, Dean Dr. Martha Mitchell, Associate Dean for Research

as of 1/04/2014

Engineering	Name	Email	Area of Specialization (s)
<b>8</b> 9	Borah, Deva	dborah@nmsu.edu	
	Boucheron, Laura	lboucher@nmsu.edu	Image Processing, including feature extraction & selection, object-level analysis, and incorporation of temporal information; Pattern Recognition and Machine Learning; Interdisciplinary Applications of Image and Signal Processing; Signal Processing, including speech enhancement and coding
	Brahma, Sukumar	sbrahma@nmsu.edu	Wide Area Protection; Wide Area Protection; Digital Relaying
	Cho, Sang Yeon	sangycho@nmsu.edu	Nanoscale devices for photonic applications; Optical Bio/Chemical Sensors; Advanced high-resolution microscopy system; Optoelectronic Devices including photodiodes and lasers.
	Cook, Jeanine	jecook@nmsu.edu	Microarchitecture simulation techniques, performance modeling and analysis and Microarchitectural power optimizations
	Creusere, Charles	ccreuser@nmsu.edu	Digital Signal Processing for audio, image, and video; Compressive Sensing/Sparse Reconstruction for LIDAR and continuously streaming signals; Communications related to space missions
	Dawood, Muhammed	dawood@nmsu.edu	EM Propagation: Precursor-based Information transmission/reception and Imaging through Dispersive media – soil, foliage, walls, and biological tissues; Antenna modeling, synthesis, and fabrication; Ultra wideband RF/Microwave active and passive systems; Advanced Signal Processing Techniques – for Radar/SAR and adaptive beam-forming
eerii	Deleon, Phillip	pdeleon@nmsu.edu	Digital speech processing incl. speaker recognition, speech enhancement; Pattern recognition and machine learning incl.  Bayesian classifiers, sparse kernel machines, and applications of PRML to speech
Electrical Engineering	Furth, Paul	pfurth@nmsu.edu	Integrated Power Management Circuits: Low-Dropout Voltage Regulators; Multi-Stage Amplifiers and Compensation Techniques; CMOS Image Quality Sensors; Adaptive Optics Sensors; Embedded systems incl. real-time DSP and mobile device programming; Graphics processing unit (GPU) computing for DSP
	Huang, Hong	hhuang@nmsu.edu	Wireless Sensor Networks; Modeling and Simulation of Wireless Networks; Network Security
Ë	Kliewer, Joerg	jkliewer@nmsu.edu	Theoretical foundations of communication systems, information and coding theory.
5	Liu, Wenxin	wliu@nmsu.edu	Smart Microgrid And Renewable Technology
Ele	Ng, Kwong	ngnsr@nmsu.edu	Computational Electromagnetics; Bioelectromagnetics; Source and Structure Imaging; Antenna and Microwave System
	Oklobdzija, Vojin	vojin@nmsu.edu	VLSI, Low-Power and Design, Microprocessor Design, Computer Arithmetic, Computer Architecture
	Paz, Robert	rpaz@nmsu.edu	Robotics & Automation, Reduced Gravity Simulation, Embedded Systems, Robust Control Systems, Source and Structure Imaging; Antenna and Microwave System
	Prasad, Nadipuram	naprasad@nmsu.edu	Control Systems and Power
	Ramirez-Angulo, Jaime	jairamir@nmsu.edu	Design and test of high performance and low voltage analog and mixed signal VLSI Systems
	Ranade, Satishkuma	sranade@nmsu.edu	Power Systems Modeling, Simulation, and Control; Renewable Energy Integration in Power Systems; Microgrids; Applications Power Electronics
	Rosenthal, Andrew	arosenth@nmsu.edu	Solar Energy Technologies
	Stochaj, Steven	sstochaj@nmsu.edu	Solar Energetic Particles; Cosmic Ray Physics; Neutron Detectors; Small Satellite Design
	Tang, Wei	wtang@nmsu.edu	Analog and Mixed Signal Integrated Circuit Design; Radio Frequency IC Design Wireless Communication; Biosensors; Application of Biomedical Circuits and Systems
	Voelz, David	davvoelz@nmsu.edu	Spectral & Polarimetric Sensing; Optical Propagation through Atmospheric Turbulence; Free Space Optical Communications

	Andersen, Paul	pka@nmsu.edu	Chemical Process Simulation, Transport in Electrochemical Systems
		pracerimonicad	2
Chemical Engineering	Deng, Shuguang	sdeng@nmsu.edu	Nanostructured Materials, Hydrogen and Methane Storage through Clathrate Formation, Gas Separation and Purification, Membrane Distillation for Brackish Water Desalination, Potable Water Purification, Air Pollution Control  Flow-cytometry: analysis, sorting, applications thereof; Time-dependent photonics: fluorescence decay kinetics, phase-filtering;
	Houston, Jessica	jph@nmsu.edu	Biomaterials: reporters for Raman, Raleigh scatter, and Cytometric molecular imaging: in vivo diagnostic systemsfluorescence; Image and digital signal processing: DAQ and computational methods
	Luo, Hongmei	hluo@nmsu.edu	Functional oxide, nitride, and nanocomposite thin film heterostructures for microelectronics, optoelectronics, magnetism, superconductors, catalysts, sensors, and energy applications; Nanostructured materials (nanoparticles, nanowires, nanotubes, and mesoporous materials) for magnetism, catalysts, sensors, water splitting, battery, and solar cell applications; Electrochemical deposition, sol-gel, polymer-assisted deposition, self-assembly, hydrothermal.
ع	Manz, Thomas	tmanz@nmsu.edu	Materials Science, Energy Applications, Solid State Systems
0	Martinez, Julio	julmart@nmsu.edu	Nanotechnologies; BioSensing Applications; Organic Photovoltaics
	Rockstraw, David	drockstr@nmsu.edu	Synthesis and Characterization of Activated Carbon from Lignocellulosic Raw Materials; Synthesis of Potassium Ferrate and its Application to Environmental Systems; Flash Pyrolysis of solutions to form metallic nanoparticles
	Butcher, Eric	eab@nmsu.edu	Spaceflight Dynamics, Estimation, and Control; Nonlinear Structural Dynamics & Vibrations; Time-Varying, Time-Delayed, and Stochastic Stability & Control Robotics and Controls
	Drach, Borys	borys@nmsu.edu	Analytical, computational and experimental solid mechanics; composite and biocompatible materials; numerical methods in engineering
	Cai, Chunpei	ccai@nmsu.edu	Fluid Dynamics; Rarefied Gas Dynamics, Gaskinetic CFD, Hypersonic Flows
<b>B</b>	Choo, Vincent	vchoo@nmsu.edu	Solid Mechanics & Materials - Polymers and Composite Materials
Ë	Conley, Edgar	econley@nmsu.edu	Solid Mechanics & Materials; Wind Energy
ee	Donaldson, A.	bdonalds@nmsu.edu	Thermal Science & Energy; Experimental Methods
Ë	Garcia, Gabe	gabegarc@nmsu.edu	Experimental Solid Mechanics
_ <u>~</u>	Hardee, Harry	hhardee@nmsu.edu	Thermal Science & Energy; Geophysical Instrumentation
Mechanical Engineering	Kota Venkata	kkota@nmsu.edu	Energy-efficient Thermal & Fluid Transport, Energy Systems and Components, Thermal Management, Flow Control & Drag Reduction
Ē	Lee, Young	younglee@nmsu.edu	Aeroelasticity & Fluid Structure Interaction
ļ, Ļ	Leslie, Ian	ileslie@nmsu.edu	Thermal Science & Energy; Renewable energy and modeling
<u> </u>	Ma, Ou	oma@nmsu.edu	Dynamics & Vibrations; Robotics and Controls
≥	Park, Young	ypark@nmsu.edu	Design Optimization, Computational Solid Mechanics
	Sanyal, Amit	asanyal@nmsu.edu	Nonlinear Control and Dynamics, Geometric Mechanics, Nonlinear Estimation, Aerospace Control, Mobile Robots
	Sevostianov, Igor	igor@nmsu.edu	Micromechanics of Materials, Biomechanics
	Shashikanth, Banavara	shashi@nmsu.edu	Theoretical Fluid Mechanics, Dynamical Systems and Control
	Shu, Fangjun	shu@nmsu.edu	Experimental Fluid Dynamics, Bio-inspired Flow, Biofluidics, Microfluidics, Turbulent Flow, Optical Metrolog
	Wei, Mingjun	ytnmsu@nmsu.edu	Computational Fluid Dynamics, Aeroacoustics, Control and Optimization
eerii	Bandini, Paola	paola@nmsu.edu	Geotechnical Engineering
	Bawazir, A.	abawazir@nmsu.edu	Water Resources Engineering
Ë	Cortes, Douglas	dcortes@nmsu.edu	Geotechnical Engineering
u:	Idriss, Rola	ridriss@nmsu.edu	Structural Engineering
<u> </u>	Jauregui, David	jauregui@nmsu.edu	Structural Engineering, Bridge Inspection
ica	King, James	jpking@nmsu.edu	Water Resources Engineering
vil and Geological Engineeri	Newtson, Craig	newtson@nmsu.edu	Structural Engineering
	Nirmalakhandan, Nagamany	nkhandan@nmsu.edu	Environmental Engineering
	Papelis, Charalambos	lpapelis@nmsu.edu	Environmental Engineering
	Samani, Zohrab	zsamani@nmsu.edu	Water Resources Engineering
	Weldon, Brad	bweldon@nmsu.edu	Structural Engineering
	White, Kenneth	krwhite@nmsu.edu	Structural Engineering, Bridge Inspection
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Ö	Xu, Pei	pxu@nmsu.edu	Environmental Engineering
_ 50	Engi, Dennis	engi@nmsu.edu	Risk analysis, dynamic simulation, optimization, intelligent agents, decision theory, and game theory.
			Process improvement in Health Care delivery systems including Outpatient Scheduling System, Urgent Care/ Emergency
	Huang, Yu-Li	yhuang@nmsu.edu	Systems, and Operation Room Scheduling System
ri ji	Kammerdiner, Alla	alla@nmsu.edu	Combinatorial optimization and application of data mining to health care, biomedicine and human factors.
Industrial	Mullen, John	jomullen@nmsu.edu	Quality and continuous improvement, Large scale systems, Engineering and public policy
무 등	Pines, Edward	epines@nmsu.edu	Educational Research
ي ي	Sohn, Hansuk	hsohn@nmsu.edu	Network design, logistics, and supply chain management
ш			Optimization of manufacturing processes to protect the environment; reducing manufacturing costs and scrap, designing and
	Valles-Rosales, Delia	<u>dvalles@nmsu.edu</u>	planning the best facilities; reducing process cycle time; selecting the appropriate raw material; facilitating collaboration among
			companies and academia; reducing fatigue among employee
	Beasley, Jeffrey	jbeasley@nmsu.edu	Electronic communication systems, and VLSI design, simulation and test
	Boje, Carmen	cboje@nmsu.edu	Computer Newtworks and Multimedia
	Dhar, Ashutosh	asdhar@nmsu.edu	Surveying engineering
ම්	Elaksher, Ahmed	elaksher@nmsu.edu	
l	Frank, Steven	sfrank@nmsu.edu	Plane surveying, boundary law, subdivision design, and land information systems
Ĕ	Hyde, Anthony	ahyde@nmsu.edu	
Technology	Jenkins, Thomas	tjenkins@nmsu.edu	Renewable energy, digital systems
Ĕ	Jiang, Ruinian	rjiang@nmsu.edu	Transportation and structural engineering research, design, construction, and management
ng	Kelly, Lynn	lskelly@nmsu.edu	Information and Communication Technology (ICT)
eri	Morrell, Michael	mgm@nmsu.edu	Database Design, Internet and Data Security
ě			Product Development, Consumer Research, Disruptive Innovation, Design Thinking, Collaboration, Consumer Goods, Recruiting,
<u>.</u>	Nogales, Luke	luke@nmsu.edu	Modeling, Education, Consulting
Engineering	Ricketts, Craig	crickett@nmsu.edu	Applied Thermodynamics, Heat and Transfer Applications, Fluid Technology
_	Sassenfeld, Rolfe	rolfe@nmsu.edu	
	Stevens, Kenny	kstevens@nmsu.edu	
	Wurm, Kurt	kwurm@nmsu.edu	Surveying engineering