COLLEGE OF ARTS AND SCIENCES FACULTY AREAS OF EXPERTISE BY DEPARTMENT

DEPARTMENT OF BIOLOGY		
CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE	
cabrown@tntech.edu (931) 372-3013	Ecology, life history evolution, and behavior of terrestrial arthropods, primarily scorpions and spiders • Understanding the effects of autonomy (limb loss) on ecology and behavior • Food web ecology of riparian systems	
dbeck@tntech.edu	Infectious diseases of humans	
pbettoli@tntech.edu (931) 372-6430	Dynamics of exploited fish populations • Endangered species management	
bcarver@tntech.edu	Mammalian community	
(931) 372-3127	dynamics ● Conservation of rare mammals ● Bat biology and management	
<u>bcohen@tntech.edu</u> (931) 372-6410	Wildlife ecology and management of game animals, especially for deer and turkey • Predator-prey interactions	
dlcombs@tntech.edu (931) 372-6541	Ecology and behavior of avian wildlife species, especially waterfowl • Habitat use and natural history of reptiles and amphibians	
sbcook@tntech.edu (931) 372-3194	Ecology of freshwater invertebrates • Fish parasitology • Feeding ecology and bioenergetics of freshwater fishes • Biotic indices	
jgunderson@tntech.edu	Microbial ecology and	
(931) 372-3250	evolution • Symbiosis	
jmhall@tntech.edu (931) 372-3444 www.devoeco.org	Herpetology • Urban adaptation and global change biology • Developmental biology and embryo physiology	
	cabrown@tntech.edu (931) 372-3013 dbeck@tntech.edu (931) 372-3375 pbettoli@tntech.edu (931) 372-6430 bcarver@tntech.edu (931) 372-3127 bcohen@tntech.edu (931) 372-6410 dlcombs@tntech.edu (931) 372-6541 sbcook@tntech.edu (931) 372-3194 igunderson@tntech.edu (931) 372-3194	

Hayslette, Steven E.	shayslette@tntech.edu	● Ecological developmental biology ● Life-history evolution of reptiles and amphibians, particularly reproductive adaptations to seasonality ● Thermal adaptation and heat stress physiology of reptiles and amphibians ● Analysis, interpretation, and presentation of physiological data using R Wildlife ecology and
Professor	(931) 372-3146	management ● Avian ecology,behavior, and nutritionEcology and management of upland game birds
Hurt, Carla R. Associate Professor	churt@tntech.edu (931) 372-3143	Processes of speciation and diversification in marine invertebrates and the implications that these processes have on conservation of biodiversity. Specifically, the use of molecular tools to (1) identify taxonomic lineages and cryptic diversity, (2) reconstruct phylogenetics histories and the geographic context of species radiations, (3) examine ecological and developmental factors that promote and sustain species reef diversity, and (4) assess the geographic structure of genetic variation within marine symbiotic communities
Kissell, Jr., Robert E. Professor	rkissell@tntech.edu (931) 372-6240 https://sites.google.com/site/kissellslab	Species-habitat associations and population ecology of mammals, especially furbearers and large mammals
Krosnick, Shawn E. Associate Professor	skrosnick@tntech.edu (931) 372-6194 https://sites.tntech.edu/skrosnick/	Plant taxonomy ● Molecular systematics ● Floral development ● Plant morphology and anatomy ● Evolutionary developmental biology

Mundo ale Justin N	imurdaek@tataeh.adu	
Murdock, Justin N. Associate Professor	imurdock@tntech.edu	Algal ecology ● Nutrient
Associate Professor	(931) 372-3147	cycling • Stream community
	https://sites.tntech.edu/jnmurdock	ecology • Disturbance
		ecology Microscopy and
		imaging techniques
Roberts, Thomas H.	troberts@tntech.edu	Animal ecology • Wetland
Professor Emeritus		ecology • Habitat evaluation
		and management
Rogers, Mark W.	mwrogers@tntech.edu	Fisheries ecology and
Co-operative Fishery	(931) 372-3032	management • Aquatic food
Research Unit Leader		webs • Invasive species
and Assistant Professor		Population dynamics and
		modeling
Rosenberger, Amanda	arosenberger@tntech.edu	Ecology and conservation of
Co-operative Fishery		freshwater biota, including fish,
Research Unit Assistant		mussels, and crayfish, with an
Leader and Associate		emphasis on the role of
Professor		ecological processes in shaping
		aquatic organisms'
		distributions, population
		characteristics, and community
		structure
Wheeler, Christopher	kitwheeler@tntech.edu	Stream fish ecology and
(Kit)	(931) 372-3780	conservation • Biodiversity-
Assistant Professor	www.tntechstreamfishecology.org	ecosystem functioning in
		aquatic environments • Flow
		ecology • Ecological modeling
	DEPARTMENT OF CHEMISTRY	
NAME	CONTACTINEODMATION	DESCRIPCIA INTERESTS
NAME	CONTACT INFORMATION	RESEARCH INTERESTS
Alongo Emily	Falanga@tntach.adu	AND EXPERTISE
Alonge, Emily Instructor	Ealonge@tntech.edu 931-372-3238	Chemical education
Boles, Jeffrey, Ph.D.	jboles@tntech.edu	Analytical Biochemistry
Professor and Chair	931-372-3416	(Protein Purification,
		Electrophoresis, Mass
		Spectrometry) • Proteomics
		(including Environmental
		Proteomics) • Forensics of
		Clandestine Drugs (Chemical
		Fingerprinting using
		LC/MS/MS) ● Protein
		Chemistry (Reaction Kinetics,
		Covalent Modification) and
		Structural Biochemistry
		(incorporation of unnatural

		selenium and tellurium
		containing amino acids into
		proteins)
Callender, Andrew,	acallender@tntech.edu	Analytical chemistry and
Ph.D.	931-372-6273	spectroscopy • applications of
Assistant Professor		dispersive liquid-liquid
		microextraction techniques for
		chromatography and
		= ' '
		spectroscopy • statistics and
		data science for interpretation
		of analytical data • low-cost
		analytical instrumentation for
		the developing world
Carrick, Ann Marie	acarrick@tntech.edu	Chemical education
Senior Instructor	931-372-3426	
Carrick, Jesse, Ph.D.	jcarrick@tntech.edu	Minor actinide separations
Professor	931-372-6199	from spent nuclear fuel using
FIOLESSOI	931-372-0199	_
		soft-Lewis basic donors ●
		heterocycle synthetic method
		development
		chemistry
		total synthesis
Carroll, Amanda, Ph.D.	acarroll@tntech.edu	Chemical education (teaching,
Senior Lecturer	931-372-6324	learning, and mentoring
		strategies)
		Analytical/Inorganic
		Environmental Chemistry
		•
		(utilizing chelating resins to
		remove metals from aqueous
		sources)
Carroll, William, Ph.D.	wcarroll@tntech.edu	NMR spectroscopy ● Residual
Associate Professor	931-372-6094	Dipolar Couplings • physical
		organic chemistry
Cashman, Derek, Ph.D.	dcashman@tntech.edu	Computational Biophysics and
Lecturer	931-372-3434	Medicinal Chemistry. Specific
Lecturer	http://sites.tntech.edu/dcashman	
	intp.//sites.tintech.edu/dcasiinian	areas of ongoing research
		include: (a) computational drug
		discovery of novel antibacterial
		(DHFR) and antiviral (COVID-
		19) agents; (b) protein-protein
		interactions and molecular
		dynamics simulations of
		· ·
		Photosystem I; and (c) 3D
		printing techniques of
		biomolecules and small
		molecules.
Cojocaru, Andreea,	ocojocaru@tntech.edu	(a) Applying the ionic liquids
Ph.D.	931 372-6399	strategy to bio-renewable
Instructor		materials and utilizing the
		new materials for
		Hew materials for

		pharmaceutical and
		environmental applications
		(b) Synthesis, development,
		and study of active
		pharmaceutical ingredients
		in liquid form
		(c) Development of new
		delivery systems for active
		pharmaceutical ingredients
		in liquid form.
Coonce, Janet	jcoonce@tntech.edu	Chemical Education:
Senior Instructor	931-372-6521	Research and design of
Schiol Histractor	331 372 0321	tutorials, games, and
		animations for introductory
Constant Devid Db D	danas Ototach ada	Chemistry students
Crouse, David, Ph.D.	dcrouse@tntech.edu	Organic Chemistry • Polymer
Associate Professor	931-372-3515	Chemistry
Gichuhi, Wilson, Ph.D.	wgichuhi@tntech.edu	Atmospheric Chemistry and
Associate Professor	931-372-3499	Environmental
		Spectroscopy: The main
		research goal of my research
		group to apply infrared
		spectroscopic techniques in
		environmental and
		atmospheric detection of
		trace gases. Our
		measurements assist in
		gaining insights onto
		fundamental photophysical
		and photochemical
		processes, as well as the fate
		of reactive and non-reactive
		trace gases in urban and
		sub-urban environments. In
		the first project, we utilize a
		high-precision continuous
		wave Cavity-Ring-Down
		Spectroscopic (CRDS) for
		ground-based
		measurements of dry mixing
		ratios of methane (CH ₄),
		carbon dioxide (CO ₂) and
		carbon monoxide (CO)
		within the shallow boundary
		layer of the atmosphere. In
		the second project, mid and
		near infrared spectroscopic
		techniques are employed to
		detect and quantify non-
		methane hydrocarbons
		(NMHC) as methane tracers
		in the environment. In

		addition to playing a
		significant role in
		tropospheric chemistry and
		ozone formation, these
		NMHC provide critical
		molecular signatures that
		are useful in partitioning
		local and regional CH ₄
		emissions between various
		sources.
Glinski, Robert, Ph.D.	rglinski@tntech.edu	Molecular emission
Professor	931-372-3420	spectroscopy • astronomical
		spectroscopy
		astrochemistry • dynamics
		of molecules in astrophysical
		environmentscomets and
		interstellar media.
Holden, Zachary, Ph.D.	zholden@tntech.edu	Computational chemistry
Instructor	931-372-3748	QM/MM Simulations
		including Ewald summation
		Chemical Education
		Undergraduate PChem lab
		development • NMR kinetics
		of H-D exchange in
		hypophosphite
Jiang, Xiaohua, Ph.D.	xjiang@tntech.edu	Interactions between
Associate Professor	931-372-3184	thiosemicarbazones and
Associate Professor	931-372-3164	replication enzyme
		topoisomerase-II-α.
		Thiosemicarbazones exhibit
		anti-proliferative activity and
		can be used as a potential
		anticancer drug by inhibiting
		topoisomerase-II-α.
		Research in our laboratory
		seeks to understand what
		characteristics of
		thiosemicarbazones are
		important for inhibition as
		well as the extent these
		compounds can inhibit
		topoisomerase-II-α. Our
		ongoing work encompasses
		biochemical assays to study
		the dose-dependency of
		these compounds with the
		enzyme and NMR
		spectroscopy to study the
		physical interactions
		between these compounds
		and the enzyme during
		inhibition. Our lab is also
		minibilion. Our lab is also

		currently investigating the C- terminus of human
		topoisomerase-II-α to obtain information about the
		factors that regulate the
		activity of the enzyme.
Kocher, Lesta	lkocher@tntech.edu	Environmental chemistry
Instructor	931-372-6819	,
Lisic, Edward, Ph.D. Professor	edlisic@tntech.edu 931-372-3425	Coordination chemistry of the transition metals, ligand synthesis, nuclear medicine • Director of the Undergraduate Research Program (U.R.E.C.A. and C.I.S.E.)
Majors, Twanelle, Ph.D. Lecturer	tmajors@tntech.edu 931-372-3425	Plant compounds suitable for agrichemical and medicinal applications, AP Chemistry, assessment development and quantitative evaluation, K-16 non-majors multicultural STEM pedagogies and assessment, impact of deficit ideologies on STEM learners.
Moldenhauer, Jonathan, Ph.D. Instructor	jmoldenhauer@tntech.edu 931-372-6866	Fundamental electrochemistry pertaining to basic electrochemical properties and novel solvents • electrochemical sensors for
		in situ real time monitoring of analytes.
Mullins, Gene Lab Coordinator	gmullins@tntech.edu 931-372-3536	Instrumentation ● method development and application
Duratile and Cookide a	annatibe a Otota elecator	polymer applications
Pratihar, Subha Instructor	spratihar@tntech.edu 931-372-3237	Dynamics of soft landing of peptide ions on organic surfaces • Dynamics of
		collision induced dissociation
		of peptide ions • Dynamics of noble gas collision on ice
		surface • Dynamics of chemical
		reactions in gas phase ● Post-
		transition state dynamics • Quantum chemical calculations followed by parameterization
		of PES for development of force field parameters
		 Classical dynamics simulations • QM and QM/MM direct dynamics simulations

D		D
Rezsnyak, Chad, Ph.D.	crezsnyak@tntech.edu	Development and
Associate Professor	931-372-6282	implementation of novel
		pedagogies and resources to
		improve the educational
		experience of chemistry
		students
Rust, Kathryn	krust@tntech.edu	Chemical education
Instructor	931-372-3423	
Swartling, Daniel, Ph.D.	dswart@tntech.edu	Bio-organic and medicinal
Associate Professor	931-372-3431	chemistry • Green and
		sustainable chemistry
		Alternative energy and
		biofuels. Biomass for
		sustainable chemical
		feedstocks
Zhan, Xuanzhi, Ph.D.	xzhan@tntech.edu	Our group is focusing on
Associate Professor	931-372-3427	understanding the mechanisms
		of ASK1-initialed mitogen
		activated kinase (MAPK)
		signaling. We have placed a
		strong emphasis on reconstructing these interested
		cellular signal cascades with
		purified proteins. A
		combination of biochemical,
		biophysical, bioanalytical and
		computational approaches are
		employed to explore the
		dynamic movements, post-
		translational modifications,
		and protein-protein
		interactions in these signaling
		pathways. Particularly, we are focusing on three research
		areas: (1) the activation
		mechanisms of ASK1, one of
		the MAP3Ks; (2) the assembly
		of ASK1-MKK4/7-JNKs complex,
		and the molecular recognition
		between enzyme and
		substrate; (3) the regulation of
		scaffold protein (arrestin) in these MAP Kinase cascades.
7hang Hong Dh D	hzhang@tntoch odu	Physical and chemical
Zhang, Hong, Ph.D. Professor	hzhang@tntech.edu 931-372-6325	processes, dynamics, chemical
1 10103301	331 372 0323	kinetics, molecular
		mechanisms, consequences,
		and control of transport,
		transformation, and cycling of
		pollutants and natural chemical
		substances in the environment,
		crossing air, water, plant, and
		_
		soil, on local, regional, and
		global scales in general, and
		those associated with mercury

		in particular. Application of analytical chemistry in environmental chemistry. The research areas involve environmental photochemistry, environmental geochemistry, aquatic chemistry, soil chemistry, atmospheric chemistry, environmental biochemistry, environmental analytical chemistry, molecular biogeochemistry, and global biogeochemistry.
	DEPARTMENT OF EARTH SCIENCES	
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Luna, Jeannette Associate Professor and Interim Chair	jwolak@tntech.edu (931) 372-3695	Sedimentology and stratigraphy • Carbonate/clastic slope environments • Deepwater deposition • Planetary geology • Petroleum geology • Mineral exploration
Asante, Joseph Assistant Professor	<u>jasante@tntech.edu</u> (931) 372-3576	Society, environment, climate, hydrogeology, watershed, and aquatic chemistry: Impact on water quality, quantity and availability
Harrison, Michael Professor	mharrison@tntech.edu (931) 372-3751	Field geology • Geologic mapping • Rock deformation • Tectonics, whole-earth structure, mountain formation
Hart, Evan Professor	<u>ehart@tntech.edu</u> (931) 372-3516	Fluvial geomorphology Flood hydrology Karts, soils, coastal processes
Li, Peter Professor	pli@tntech.edu (931) 372-3752	GIS and geospatial analysis • Environmental applications of GIS
Michel, Lauren Assistant Professor	<u>Imichel@tntech.edu</u> (931) 372-3188	Climate science • Ancient soils (paleosols) • Stable isotope geochemistry • Paleoclimate and paleoenvironmental reconstructions

	DEPARTMENT OF ENGLISH	
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Null, Linda	Inull@tntech.edu	18 th -century British Novel
Professor and Chair	(931) 372-3345	Jane Austen
Baker, Tony	abaker@tntech.edu	Rhetoric • First-year
Professor, Director of Composition	(931) 372-6314	composition • Writing
Composition		pedagogy • Writing
		assessment • Graphic novels
		Cultural and literary
Douada Daulina	phounds@tatach.odu	representations of autism
Bounds, Paulina Associate Professor	pbounds@tntech.edu (931) 372-3763	Perceptual dialectology
Associate Professor	http://paulinabounds.wixsite.com/paulinabounds	Language perceptions Linguistic attitudes
	nttp.//padimasounus.wixsite.com/padimasounus	Linguistic attitudesLanguage variation
		Language variation Linguistics of speech • GIS
		mapping of linguistic
		perceptions, grade
		perceptions, mindfulness,
		grading strategies in classroom
Burduck, Michael	mburduck@tntech.edu	Early 19 th -Century American
Professor	(931) 372-3360	Literature (Irving, Cooper, Poe,
		Hawthorne, Whitman), Gothic
		Literature, William Faulkner
Cardana, Robert	rcardana@tntech.edu	Theater design and technology
Lecturer	(931) 372-3660	• The theater of: Politics,
		religion, grocery stores,
		protest, classrooms • Creativity
Custon Mandall	manata a Okuka ah a da	Small business marketing The actual Action (for actual and actual
Creter, Mark H. Professor and Artistic	mcreter@tntech.edu	Theatre-Acting (for stage and
Director	(931) 372-4578 www.tntech.edu/bdph	camera) • Directing (all genres)
Director	www.tiitech.edd/bdpff	Voice and Diction Shakespage in Dayforman
		Shakespeare in Performance Shakespeare in Performance Shakespeare in Performance
		• Film Studies • Script Analysis
		Audition Techniques Dramatic Literature
Doitor Kriston	kdaitar@tntach adu	Dramatic Literature Chalcanage Carlo Madage
Deiter, Kristen Associate Professor	kdeiter@tntech.edu (931) 372-3328	Shakespeare • Early Modern
Associate Fluiessul	(331) 3/2-3320	English literature (poetry, drama, prose) and culture
		Literary criticism and theory
		Early Modern London, Tower
		of London

Ductan, Monic	mductan@tntech.edu	Fiction writing (realism) ● The
Assistant Professor	(931) 372-3909	personal essay and
		memoir • Appalachian
		literature ● Southern literature
		African-American literature
		Working-class literature
Ernst, Daniel	dernst@tntech.edu	Writing and educational
Lecturer	(931) 372-3164	assessment • Measurement of
Lecturer	(331) 372 3104	
		learning • Technical
		communication ● Public and
er i savilr		political rhetoric
Fisk, William	wfisk@tntech.edu	American literature • British
Senior Instructor	(931) 372-3349	literature
Gray, Jennifer	jgray@tntech.edu	20 th and 21 st century British
Assistant Professor	(931) 372-6569	and Anglophone literature,
		particularly British Empire
		literature; women's literature;
		culinary diplomacy in
		literature; African, Middle
		Eastern and South Asian
61		literatures
Henry, Sharon	skhenry@tntech.edu	
Lecturer	(931) 372-6271	
Hoover, Erin	ehoover@tntech.edu	Poetry writing ● Gender and
Assistant Professor	(931) 372-3347	20 th /21 st century poetics
		Literary and professional
		editing ● Equity in publishing
Hunt, Helen	hhunt@tntech.edu	Early American literature,
Assistant Professor	(931) 372-3346	especially early novels, gender
		and sexuality studies, and
		queer theory
Laird, Shirley	slaird@tntech.edu	Chaucer ● Shakespeare
Professor	(931) 372-3348	■ Tolkien ■ Grammar ■ Early
		English literature
McQuail, Josephine	jmcquail@tntech.edu	British Romantic literature and
Professor	(931) 372-6207	William Blake ● Victorian
		literature ● 20 th - Century
		British literature • James Joyce
		Janet Frame
Moynihan, Susan	smoynihan@tntech.edu	American literature, late 19-
Muchshima	(931) 372-3909	
Senior Lecturer	(331) 3/2-3303	21st-Century ● Comparative
Semon Lecturer		American ethnic literature, Asian American literature
		• Gender and women's
		literature ● Autobiography

		Theories of trauma and
		affect/emotion
Pelton, Ted Professor	tpelton@tntech.edu (931) 372-3047	Fiction writing • Small press and literary magazine publishing • Jack Kerouac and the Beat Generation • Herman Melville, and 19 th C. American literature • History and form of the novel • Creative inquiry instruction
Pickering, Kristin Professor	kpickering@tntech.edu (931) 372-6568	Emotion and professional/technical communication • Identity construction • Textual analysis • Disciplinary/professional genres • Oral communication assessment • Rhetoric • Qualitative research strategies • Rhetoric of sustainability • Government communication
Ramler, Mari Assistant Professor	mramler@tntech.edu (931) 372-3768	Critical theory • Gender and sexuality studies • Science and religion • The rhetoric and communication of digital censorship • Usability • Ecology
Robinson, Elizabeth Senior Instructor	erobinson@tntech.edu (931) 372-3350	American literature ● Novels • Young adult literature ● John Steinbeck ● Edgar Allan Poe • Film ● Composition
Smith, Andrew William Senior Instructor	asmith@tntech.edu (931) 372-3345 https://sites.google.com/site/professorandysmith/	Christian social justice movement and Christian counter-culture
Stenson, Matthew Scott Instructor	sstenson@tntech.edu (931) 644-7229	Shakespeare ● Milton ■ Romantics ● History of rhetoric ● Sacred literature
Williams, Brian Associate Professor	bjwilliams@tntech.edu (931) 372-3338	20 th C. American fiction • Contemporary American fiction and the literature of war and trauma (particularly Vietnam, Afghanistan, and Iraq)

DEPARTMENT OF FOREIGN LANGUAGES		
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Sheehan, Martin Associate Professor of German and Interim Chair	MSheehan@tntech.edu (931) 372-6535	Digital humanities • Cultural analytics • Literary network analysis • Twitterbots • Film studies • Photography theory • Dramatic comedy • Disability studies • The long nineteenth century • George Trakl
Barnard, Debbie Associate Professor of French	DBarnard@tntech.edu (931) 372-3773	Francophone literature • North Africa • Critical identity studies • Urban theory • Postcolonial theory • Religion and identity
Groundland, Mark Associate Professor of Spanish	MGroundland@tntech.edu (931) 372-3158	Don Quixote ● Literature, history, culture of the Spanish Golden Age ● Bibliography ● Moriscos
Gruber, Julia Associate Professor of German	JGruber@tntech.edu (931) 372-3787	German studies • Jewish Austrian literature • Family novel • Jewish child exiles • German film • Berlin • Female anger and resistance in the German-speaking world • Dr. Heinrich Hoffmann's Der Struwwelpeter
Humita, Cristina Lecturer of Spanish	MCHumita@tntech.edu (931) 372-3778	Spanish language ● Latin American culture and literature ● Second language acquisition ● Bilingualism
Kazakova, Elena Lecturer of French	EKazakova@tntech.edu (931) 372-3776	Early modern literature Theory and practice of translation in the early modern period ● Foreign language pedagogy and assessment
Olsen, Michael Assistant Professor of Spanish, Curriculum Director for TTU's Center for English as a Second Language	MOlsen@tntech.edu (931) 372-3777	Spanish linguistics • Second language acquisition • Applied linguistics • Spanish dialectology • Foreign language teacher education • Foreign language pedagogy

Villalba, Manuel	MVillalba@tntech.edu	Exile and diaspora studies
Assistant Professor of	(931) 372-3771	Critical theory
Spanish		Contemporary Spanish
		culture and literature • Film
		studies
	DEPARTMENT OF HISTORY	
NAME	CONTACT INFORMATION	RESEARCH INTERESTS
		AND EXPERTISE
Dollar, Kent T.	kdollar@tntech.edu	Colonial America, Early
Professor and Interim	(931) 372-6547	National, Civil War and
Chair		American Religion
Akehinmi, Krystal	kdfakehinmi@tntech.edu	African-American and women's
Assistant Professor	(931) 372-6322	history
Banton, Arthur	abanton@tntech.edu	Sports • Race • Ethnicity
Assistant Professor		Modern cultural history
Beason, Ed	ebeason@tntech.edu	U.S. history and digital history
Adjunct Faculty	(931) 372-6548	
Birdwell, Michael E.	birdie@tntech.edu	Cultural history, film, and
Professor	(931) 372-3356	World War I
Brown, R. Keith	rbrown1@k12tn.net	U.S. history
Adjunct Faculty	(9310 372-3332	
Davis, Phillip C., Jr.	pdavis@tntech.edu	U.S. history
Instructor	(931) 372-3333	
Driggers, E. Allen, Jr.	edriggers@tntech.edu	British history ● History of
Associate Professor	(931) 372-3335	science • History of
		engineering ● History of Earth
		sciences • History of chemistry
Hinton, Paula K.	phinton@tntech.edu	Women, gender, and history of
Associate Professor	(931) 372-3339	crime
Laningham, Susan D.	slaningham@tntech.edu	Ancient/medieval/early
Professor	(931) 372-6254	modern Europe,
		Mediterranean, Mexico,
Propes, C. Elizabeth	epropes@tntech.edu	religion, and women Modern France, 19 th -century
Associate Professor	(931) 372-3616	Europe, and African history
Roberts, Jeffery J.	jjroberts@tntech.edu	European Military, Russia, and
Professor	(931) 372-3365	Middle East History
Schiller, Samuel	sjs@schillerlawfirm.com	U.S. legal history
Adjunct Faculty	(931) 372-3332	,
Schmitzer, Jeanne	jschmitzer@twlakes.net	U.S. history
Adjunct Faculty	(931) 372-6025	
Smith, Laura	lesmith@tntech.edu	U.S. history
Instructor	(931) 372-3335	

Smith, Troy D.	tdsmith@tntech.edu	Western U.S., Native American,
Associate Professor	(931) 372-6297	and environmental history
	DEPARTMENT OF MATHEMATICS	
NAME	CONTACT INFORMATION	RESEARCH INTERESTS
		AND EXPERTISE
Allen, Michael	mallen@tntech.edu (931) 372-3569	Time series • Spatial statistics
Professor, Interim Chair	(931) 372-3569	Bootstrapping • Machine
		learning • Additive
Chambana Amu	a shareshave Ottesta also advi	manufacturing
Chambers, Amy	achambers@tntech.edu	C* - algebras and Wavelets
Associate Professor Davis, Chris	(931) 372-3690	Numerical analysis of partial
Associate Professor	cbdavis@tntech.edu (931) 372-3445	Numerical analysis of partial differential equations
Associate Professor	http://math.tntech.edu/cbdavis/	Developing and analyzing
	integrithment.titeen.edu/esdavisj	partition of unity methods for
		fourth (and higher) order
		problems
Hetzel, Andrew J.	ahetzel@tntech.edu	Multiplicative Ideal Theory
Associate Professor	(931) 372-3581	Commutative Ring Theory
	http://math.tntech.edu/ajhetzel	
Kubiak, Damian	dkubiak@tntech.edu	Functional analysis • Banach
Associate Professor	(931) 372-3529	spaces • Function spaces
		Operator Theory
LeBorne, Richard	<u>rleborne@tntech.edu</u>	Numerical analysis of
Professor	(931) 372-3582	algorithms in adaptive signal
		processing • STEM education
		Learning mathematics for
	li or i li li	long-term retention
Liu, Yung-Way	ywliu@tntech.edu	Differential equations
Professor	(931) 372-3564	 Integral equations and their applications
Machida, Motoya	mmachida@tntech.edu	Probability theory • Stochastic
Associate Professor	(931) 372-3583	process • Mathematical
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(552) 572 5555	statistics
O'Connor, Brian	bmoc@tntech.edu	Numerical analysis and partial
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Shibakov, Alexander	ashibakov@tntech.edu	Topology and Set Theory
Professor	(931) 372-3438	Probability and Measure
		Theory • Theory of
		Computation and Computer
		Arithmetic
Smith, David	ddsmith@tntech.edu	Statistical consulting • Climate
Professor	(931) 372-3568	modeling • Extreme value
		models ● Small area estimation

		Bayesian methods for data analysis
Veerapen, Padmini Associate Professor	pveerapen@tntech.edu (931) 372-3526	Noncommutative algebra Noncommutative algebraic geometry
	DEPARTMENT OF PHYSICS	
NAME	CONTACT INFORMATION	RESEARCH INTERESTS AND EXPERTISE
Robinson, Steve Professor and Chair	sjrobinson@tntech.edu (931) 372-3480 http://iweb.tntech.edu/sjrobinson/	Physics Education Research (PER) • Curriculum development for physics and physical science courses • Faculty development in teaching and learning
Ayik, Sakir Professor	ayik@tntech.edu (931) 372-3156	Heavy-ions reactions
Engelhardt, Paula V. Associate Professor	engelhar@tntech.edu Bruner 215 (931) 372-3629	Physics education research
Holley, Adam Assistant Professor	aholley@tntech.edu Bruner Hall 222 (931) 372-3145	Interests: Low-energy fundamental physics • Quantum computing/information • Computational modeling Expertise: Production and detection of cold and ultracold neutrons, neutron polarimetry • Monte Carlo simulations • Radio frequency systems • Data acquisition hardware/software and analysis techniques for particle detection systems • Vacuum technology and low- temperature systems (e.g., liquid He systems, dilution refrigerators, SQUIDs, superconducting magnets)
Kidd, Mary Assistant Professor	mkidd@tntech.edu Bruner 216 (931) 372-3477	Rare decay searches (neutrinoless double beta decay, dark matter) • Particle detection • Environmental applications of nuclear physics • Applications of radioactive

		da a
		decay processes • Imaging
		using nuclear physics •
		Astronomical imaging
		Expertise: Gamma-ray
		spectroscopy • Operation of
		high purity germanium
		detectors and scintillators •
		Monte Carlo simulations ●
		Some image analysis
Kozub, Raymond L.	rkozub@tntech.edu	Experimental nuclear physics
Professor	(931) 372-3479 or 372-3483	
	http://web.blomand.net/~rkozub/	
Rajabali, Mustafa M.	mrajabali@tntech.edu	Expertise in radiation
Assistant Professor	Box 5051, Bruner Hall	detection and decay
	221	spectroscopy of beta, alpha,
	(931) 372-3044	gamma and neutron
		radiation • Detector
		development for radiation
		detection including HPGe
		detection including in Ge
		silicon detectors Interests:
		Low energy nuclear physics -
		Study of the nuclear
		structure of very rare
		neutron rich nuclei via decay
		and laser spectroscopy to
		understand the collective
		behavior of the nucleons
		that make up the nuclei and
		how the collective behavior
		is influenced by the
		abundance of neutrons •
		Interdisciplinary science -
		Application of radiation
		detection methods for
		research in geography,
		biology and
		environmental science
Shriner, John	jshriner@tntech.edu	Nuclear resonance reactions •
Professor		Statistical properties of
		nuclear levels

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Maxwell, Lori, Ph.D. Professor and Chair	LMMaxwell@tntech.edu	Constitutional law • Judicial process • Gender studies Political culture • Presidentia studies
Bower, Erica Assistant Professor	<u>ebower@tntech.edu</u> (931) 372-3208	
Brown, Shelly S. M.A. Senior Instructor	<u>CSBrown@tntech.edu</u> (931) 372-6122	Certified gerontologist • Service learning • Scholarship of teaching and learning
Carlton, Cecil Ph.D. Associate Professor	<u>CCarlton@tntech.edu</u> (931) 372-3812	History of philosophy ■ Early Christianity ■ Wittgenstein, Agrarianism
Cook, Nicole M.A. Instructor	NACook@tntech.edu (931) 372-3819	
Cook-Mucci, Wendy M.A. Lecturer	Cookmucci@tntech.edu (931) 372-3208	Gender studies • Medical sociology • Millenials and age cohort analysis • Marriage and family
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Gunter, Michael Ph.D. Professor	MGunter@tntech.edu (931) 372-3180	Kurds in Turkey and Iraq, Kurdistan, the Kurdish struggle • Middle East Politics • Turkey • Armenians • American foreign policy • China • UK ? France • Germany • Soviet Union (Russia) • EU • United Nations • Terrorism • International law • International politics
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Norris, Lachelle Ph.D. Professor of Sociology	<u>LNorris@tntech.edu</u> (931) 372-6220	Environmental sociology Political economy of Upper Cumberland qualitative field methods historical sociology Appalachia rural sociology death/dying
Raymondo, James	JRaymondo@tntech.edu	
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Seiler, Steven Associate Professor	SSeiler@tntech.edu (931) 372-3171	Research Methods • Quantitative & quality data analysis • Program evaluation • Research ethics/IRB • Social psychology • Social technology • Drug use/misuse & recovery • Social justice
Wright, Lauren Ph.D.	LEWright@tntech.edu	Sexual violence • Crime and
Assistant Professor	(931) 372-3820	the media • Theory