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-renewable materials and utilizing the new materials for pharmaceutical and environmental applications

(b) SylDtarre,sDavid, Ph.D.

Assistant Professor	ddan@tntech.edu 931-372-6819	Radiochemistry
Gichuhi, Wilson Ph.D. AssociateProfessor	wgichuhi@tntech.edu 931-372-3499	Atmospheric Chemistry and Environmental Spectroscopige main research goal of my research group to apply infrared spectroscopic techniques in environmental and atmospheric detection of trace gases. Our measurements assistationing insights onto fundamental photophysical and photochemical processes, as well as the fate of reactive and norreactive trace gases in urban and surban environments. In the first project, we utilize a highecision continuous wave CavitRingDown Spectroscopic (CRDS) for ground-based measurements of dry mixing ratios of methane. (CH carbon dioxide (CD) and carbon monoxide (CO) within the shallow boundary layer of the atmosphere. In the second project, mid and near infrared spectroscopic chaniques are employed to detect and quantify nonmethane hydrocarbons (NMHC) as methane tracers in the environment. In addition to playing a significant role in tropospheric chemistry and ozone formation, these NMHC provide