8:30 Lightning Session Topics	Descriptions
Applied Arts and Design	Scholarship in areas of architecture, landscape architecture, urban design, industrial design, graphic design, interior design, apparel design, and textile design (drawings, sketches, models, to scale or full-scale prototypes, posters, books, visual representations of pedagogical and research material, videos, photography, digital media, etc.).
Nanoscience	Research representing new developments in nanoscience and technology at the scale of individual atoms and molecules. Applications in all disciplines (e.g., biology, forestry, chemistry, materials science, chemical engineering, pharmacal science, etc.) are welcome.
Environmental Sciences/Natural Resources	Research that captures innovative approaches for solving environmental problems that impact natural resources (e.g., water and air quality, and land resources; environmental policy and analysis and other emerging challenges).
One Health/Public Health	One Health research recognizes that the health of humans is connected to the health of animals and the environment. Public Health is the science of protecting and improving the health of families and communities through promotion of healthy lifestyles, research for disease and injury prevention and detection and control of infectious diseases.
Neuroscience	Multi-disciplinary research focused on the structure and function of the nervous system. A current approach studies neuroscience in a way that integrates multiple perspectives from cognitive psychology, education, neuroscience, fMRI research and the arts.
Additive Manufacturing/3D printing	Research addressing the various processes utilized to synthesize a three-dimensional object. Industrialized additive manufacturing is the direct fabrication of end-use products and components using technologies that deposit materials layer-by-layer. Both additive manufacturing and 3-D printing work with a wide-range of materials and can be used for producing engines, medical devices, clothing, guitars, food, and much more.
10:00 Lightning Session Topics	**Descriptions**
New Approaches to STEM Education	Novel research approaches or ideas for improving and understanding student learning or teaching effectiveness in science, technology, engineering and mathematics (STEM).
Fine Arts	Creative work and research addressing the creation, performance, production and dissemination of artistically driven visual art, media arts (film, video, new media and audio), theatre (scenography, set design, costume design, lighting and sound, etc.), dance, music, and literary art (poetry, novels, short stories, feature stories, screenplays, plays, etc.).
Practical Applications of Digital Technology	Building information modeling (BIM, 3-D Scanning, LiDar, application of UAS and UAV technology, Smart Device design and technology, user experience design, etc.).
Biomedical Discovery/Genetics	Understanding the fundamental research of biology and disease and extending discoveries into real-life applications that improve human health. The intellectual exchange between human genetics and biomedical science has produced some of the most important and fruitful scientific discoveries of the past 50 years.
Social Justice	Understanding through research, the origins, structures, and consequences of justice in human affairs. A social justice framework considers how societal structures influence research methods, interpretation of research findings, and theoretical development and application. It is recognized that biases, power, and privilege exist in science, and inattentive research may reinforce inequalities.
Sustainability	Research addressing the interconnections among economy, society, and environment, and/or equitable distribution of resources and opportunities. Sustainability can be addressed in areas of development, community/society, business, agriculture, etc. A related topic is "environmental justice research" that promotes the health of natural and built environments and encourages the equitable distribution of environmental benefits and burdens throughout all communities.
Occupational Safety and Health Well-being	Research that addresses (1) efforts to understand, identify, measure, evaluate and protect exposure to workplace hazards such as radiation, chemical toxins, heavy workload, abusive supervision, work and family conflict, etc.; (2) the management of occupational safety and health practices, and promotion of occupational safety and wellbeing; and (3) understanding how workers with diverse backgrounds react to or adopt information learned from management practices. The multidisciplinary nature of this research includes intersections among many disciplines found across all of Auburn University's schools/colleges.