

Renewable Energy and Green Manufacturing (REGM) Academy for Rural Middle School Students in Eastern North Carolina (July 22nd – August 2nd, 2019)

Project PI and CSE3 faculty affiliate Dr. Ranjeet Agarwala successfully conducted a summer camp between July 22nd – August 2nd, 2019 with the assistance of CSE3 faculty, Drs. Abdel-Salam and Malali, and CSE3 faculty affiliates Drs. Dickerson, Das and Filho. The summer camp was funded by the Burroughs Wellcome Fund (BWF). The objectives of this camp were to a) excite students about pursuing professional and research careers in science-related areas; b) enhance students' proficiencies in science and mathematics; and c) encourage and motivate students to persist with science and mathematics education through scientific inquiry based hands-on learning. Nearly 20 middle school students between grade 6 to 8 participated in the two-week long summer camp. Students, under faculty supervision, explored aspects of Solar energy, Wind energy, Hydro-kinetic energy and Green manufacturing by conducting hands-on experiments and collecting data. They also visited the East Carolina University's Steam & Chiller plants, the SunEnergy1 solar farm at Conetoe, NC, the Vollis Simpson Whirligig Park in Wilson, NC and Hyster-Yale Inc. On the final day of the summer camp, students presented posters detailing their learning experience at the summer camp. They were given participation certificates by the Dean of ECU College of Engineering & Technology, Dr. Harry Ploehn, Pitt County STEM Coordinator, Mr. Fritz Robinett, and the BWF Program officer, Mr. Alfred Mays. Please see photos below.

