## **OPTICAL REMOTE SENSING OF AEROSOL CHARACTERISTICS**

C. Russell Philbrick<sup>1, 2</sup>, Andrea M. Wyant<sup>2</sup>, Sachin Verghese<sup>2</sup>, Jin Park<sup>2</sup>, Perry S. Edwards<sup>2</sup>, Timothy Wright<sup>1</sup>, Michelle Snyder<sup>1</sup>, Hans Hallen<sup>1</sup> <sup>1</sup>North Carolina State University (Physics and MEAS Departments) and <sup>2</sup>Penn State University (Electrical Engineering Department) philbrick@ncsu.edu, (919) 515-7928



## Multi- $\lambda$ combined with multistatic; extending the wavelength region; solution for non-spherical particles; genetic algorithm solutions; investigations of aerosol growth and dissipation; design standard sensor.