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**Optical Trapping and Torquing of C60 Nanorods**[1] DOUGLAS BONESSI, KEITH BONIN, Wake Forest University, THAD WALKER, University of Wisconsin — We have optically trapped and studied C60 polymer nanorods with diameters of 300-500 nm and lengths of 1-3 microns. The primary goal is to measure opto-electronic properties of the C60 polymer rods. This is accomplished by observing the rotational motion of the rods in a water sample when a light torque is applied. We also hope to report on opto-electronic properties of even smaller rod-shaped objects (of diameters less than 100 nm).

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Douglas Bonessi
Wake Forest University

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