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**Photothermal Deflection Spectroscopy of materials for energy applications** STEPHEN JOHNSON, JAMES DAY, BRANDON COUCH, BRANDON HELLER, BLAKE HART, Transylvania Univ, TRANSYLVANIA UNIVERSITY TEAM — A new photothermal deflection spectroscopy (PDS) setup has been constructed at Transylvania University. This poster will focus on the photothermal behavior of nanomaterials such as quantum dots as well as organic photovoltaic materials. With respect to organic photovoltaic materials, this work aims to understand differences in photothermal behavior between the solution and solid-film phases, where changes in photothermal spectra give insight into changes in electronic structure. A general overview of the PDS capabilities at Transylvania will also be given.

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