Ubiquitous dependence upon semiconductor-based technology has reached a critical turning point. In effect “small has hit the wall” (Moore’s Law) as advancements, in everything from cell phones to satellites, struggle to keep pace with demands for smaller, faster, and ever more affordable devices. Using hybrid (inorganic-organic) electronic materials, Dr. Daniels-Race’s research group works to characterize their nanoscale formations and electronic behavior, as well as to develop innovative yet low-cost apparatus and techniques through which these materials may be explored.

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