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The Design and Construction of a Surface Plasmon Resonance Imaging Apparatus for the Study of Patched Hydrophobic and Hydrophilic Surfaces in Water CHRISTOPHER WHITING, ADELE POYNOR, Allegheny College Physics Department — Proteins have hydrophobic and hydrophilic areas which, by studying how water behaves near hydrophobic and hydrophilic regions, helps to understand protein structures and interactions. We modified our existing surface plasmon resonance (SPR) system to create a surface plasmon resonance imaging setup. SPR imaging allows us to study differences in how water interacts with hydrophobic and hydrophilic regions in real time.

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