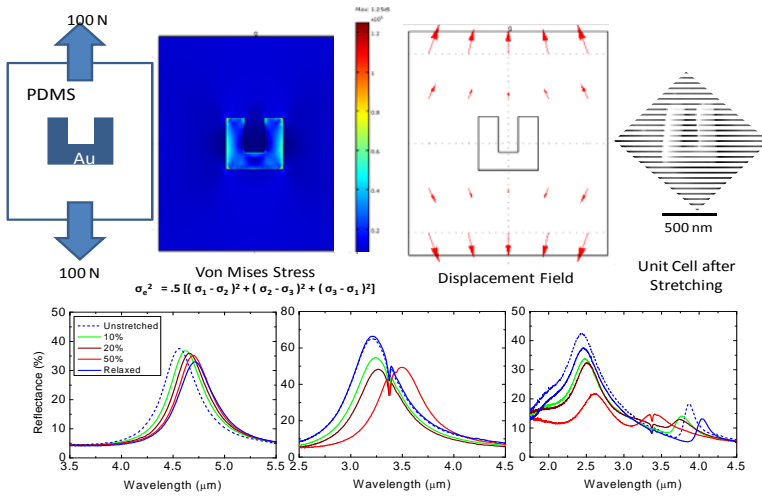
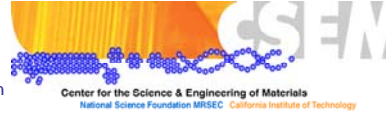


# IRG 1 Highlight

## “Stretchy” Near-Infrared Metamaterials

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Metamaterials are engineered structures with novel electromagnetic properties such as artificial magnetism, negative refraction, and cloaking. Thus far, most metamaterial designs have been limited to fixed, narrow frequency range of operation determined by the size of the constitutive resonator elements. Work within the NSF funded Center for the Science & Engineering of Materials at Caltech has resulted in a new mechanically-compliant metamaterial formed on a rubber-like substrate (PDMS), with exciting applications to tunable photonics and imaging.



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