Optical Fabrication for the Development of Medical Multiphoton Microscopic Endoscopy

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Abstract:
As a component of our Bioengineering Research Partnership for Development of Medical MultiphotonMicroscopic Endoscopy (M-MPM-E), one of the key projects has required the placement of specializedreflective coating on extremely small lenses.

Summary of Research:
We have used the CNF in this research to develop methods to utilize selective reflective coating of precisely restricted lens optics to provide dual purpose optical properties both for delivering the Multiphoton Microscopy laser excitation and also for collection of the excited fluorescence in our project, which aims to develop M-MPM-E. The proprietary nature of this project has prevented publication of most of our progress; however, the two publications listed from collaborators in this Bioengineering Research Partnership at Weill Cornell Medical College illustrate the first realization of the major goals of this project.

References: