

## **Developing Full Wafer Blazed Grating Fabrication Method Using Stepper**

**CNF Project Number: 2292-14**

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*Primary CNF Tools Used: ASML stepper, Heidelberg DWL2000 Laserwriter, Oxford 80 etcher, AFM, Hamatech wafer processing tools*

### **Summary of Research:**

With the help of John Treichler and Garry Bordonaro we were able to devise a method to print a blazed grating on an entire 100 mm fused silica ("glass") wafer, and to cut out four standard 29 mm circular filter size pieces from each wafer. These diffractive optical components will be used as a chromatic correction element in a multi-camera microscopy system for 3D imaging of neural circuits.

