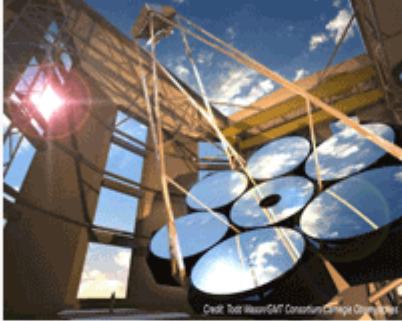


# Enabling Technology for Highly Aspheric or Free-Form Optics Manufacturing



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Dr. Dae Wook Kim  
Assistant Research Professor  
College of Optical Sciences  
University of Arizona



Precision optics can be efficiently produced using a computer controlled optical surfacing (CCOS) process. Various new approaches advancing the current CCOS processes have been developed and implemented to manufacture highly aspheric or free-form optics, such as the 8.4m diameter Giant Magellan Telescope off-axis primary segment at the University of Arizona. The new technologies and theories including Rigid Conformal (RC) lap using non-Newtonian fluid, smoothing model for mid-to-high spatial frequency error control, edge removal effect for segmented optical systems, and non-sequential optimization using multiple tools simultaneously, are presented with actual data demonstrating the performance of the enhanced process to build next generation optical systems.

Dae Wook Kim is Assistant Research Professor at the College of Optical Sciences, University of Arizona. He is principal scientist for projects that develop and implement advanced technologies for building and testing large optical systems and telescope mirrors, as well as ground and space based telescopes. He is chair/co-chair of SPIE International Symposium on Optical Engineering + Applications (Optical Manufacturing and Testing) and Topical Meeting on Optical Fabrication and Testing of the Optical Society of America (OSA). He is an Associate Editor for Optics Express.

**Title:** *Enabling Technology for Highly Aspheric or Free-Form Optics Manufacturing*

**Date:** Thursday, April 25, 2013

**Time:** 1:00 PM - 2:00 PM EDT

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