Fabrication of aspheric optics – process challenges arising from a wide range of customer demands and diversity of machine technologies

Andreas BIELKE, Klaus BECKSTETTE, Christoph KÜBLER, Holger LASSER, Brid MULLANY, Michael POLLMANN, Hexin WANG
Carl Zeiss, Central Research and Technology, D-73446 Oberkochen, Germany

Different applications of aspheric optics and their related fabrication methods are firstly summarized and then discussed using Carl Zeiss examples. This is done in order to highlight the potential and challenges of fabricating aspheric optics. The need to stimulate new ideas for extending manufacturing capabilities, process improvements and new fabrication technologies will also be outlined.