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**M Malliaris\***, Department of Mathematics, University of Chicago, 5734 S University Avenue,  
Chicago, IL 60637. *Regular ultrafilters.*

Recent progress on understanding Keisler's order, a classification program in model theory which compares theories using regular ultrafilters, has required advances in ultrafilter construction and also brought to light some limitations of our current understanding of regular ultrafilters. The talk will explain some of these frontiers. (Received February 13, 2018)