

Speaker: Richard Gardner, Western Washington University, USA.

Title: : The Hyperplane and Mahler Conjectures.

Abstract: The talk focuses on two the 66 problems stated in my book *Geometric Tomography* that are arguably the most notorious in convex geometry: Bourgain's hyperplane conjecture from 1986 (finally confirmed last year) and Mahler's conjecture from 1939 (still open). Both have great significance, not only for convex geometry, but for mathematics as a whole. A fairly comprehensive survey of these two important questions will be attempted, including their relationship to each other and to many other open conjectures from diverse areas of mathematics.