## **MARK SAPIR**, Vanderbilt University, Nashville, TN *Computational complexity and the Dehn functions of groups*

Different kinds of filling functions of groups reflect different kinds of computational complexity of the word problem. For example, the isoperimetric function reflects the time complexity. I am going to talk about recent results (joint with Olshanskii) about isoperimetric functions of groups, relationship with complexity of the word problem and asymptotic properties of groups.