EDWARD BIERSTONE AND PIERRE MILMAN, University of Toronto
Two short talks on singularities in geometry and analysis: 1. Resolution of singularities; 2. Geometry and differentiable functions

1. Progress on algorithms for canonical resolution of singularities. Applications and open problems.

2. Solutions of problems of Whitney, Thom and Glaeser on composition and extension of differentiable functions; surprising connections to real-analytic geometry.