Vacuum arcs are a concern in nearly every vacuum device under electric field; consequently, they are present in a very wide range of applications. Sometimes vacuum arcs form the basis for device operation, but all too often they are the primary failure mode. Understanding the physical processes of a vacuum arc requires expertise from many disciplines – materials science, surface physics, and plasma physics. Applications include high-voltage electronics, RF accelerators, electrostatic accelerators and vacuum interrupters. The purpose of this workshop series is to bring together scientists and engineers from many different disciplines and application areas to discuss the latest efforts in understanding vacuum arcs. We cover theory, simulation and experiments. This Workshop edition is hosted by the Consorzio RFX.