

Manchester Geological Association

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Etna and Stromboli are two of the most active volcanoes in the world. They are also amongst the most well-monitored, and therefore offer serve as volcano laboratories, permitting observations of volcanic activity which allow insights into the driving magma dynamics. In this lecture I will focus on what we have learned and what we still do not understand, as well as some of the exciting new tools which have been developed recently to perform experiments, model processes and observe degassing and eruptions. These developments and the continuing eruptions in Italy mean that many more discoveries will be made in the coming years, each gradually improving our ability to forecast eruptions.