2020 Euler Medal awarded to Marston Conder

Marston Conder has made many distinguished contributions to combinatorics over the last 40 years. He has a world-wide reputation for developing and applying techniques from combinatorial and computational group theory to answer questions and solve problems in a range of areas of mathematics with a particular focus on discrete objects (such as graphs, maps, polytopes, and Riemann surfaces) with maximum possible symmetry subject to given constraints. He has made many ground-breaking discoveries and answered many open questions in a wide range of topics, including graph symmetries, graph embeddings, regular and chiral maps, regular and chiral polytopes, as well as edge-partitions of graphs, higher-dimensional expander graphs, and binary Gray codes.

Dr. Conder has published more than 170 papers, supervised 15 PhD students, and is a frequent invited speaker at international conferences. In addition, he is renowned for the way in which he freely shares his knowledge and the results of his research with others, and in particular, for his repositories of discrete objects of particular kinds, which he found using a combination of theory and computation. These are widely used, and have been helpful not only in answering new research questions but also in leading to new discoveries.