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Making the world a cleaner place: the state of play and open questions in industrial contaminant removal.

Keeping the world clean is a global challenge, whether that be arising from natural pollution mechanisms or those arising from advances in industrial manufacturing. In this talk we will look at a series of pollution problems, including sulphur dioxide and acid rain; airborne virus transmission, and arsenic and fluoride contamination in water. In each case we will discuss the progress that has been made in deriving mathematical models to describe and mitigate these problems. We will place a particular focus on the outstanding problems and the next steps we would want to take.