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## **UK QUAAC Project: Atmospheric chemistry modelling within the UK QUEST research program**

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QUAAC (QUEST Aerosols & Atmospheric Chemistry) is part of the NERC-funded, QUEST project headed by Prof Colin Prentice at the University of Bristol (<http://quest.bris.ac.uk>). The goal of the QUEST project is to improve our understanding of Earth System processes and interactions, mainly through the development of a UK-community Earth System model (ESM). Broadly, QUAAC deals with the atmospheric chemistry elements of the QUEST ESM, including gas-phase and aerosol chemistry, deposition of gases and aerosols and the emission of reactive compounds from the biosphere. The model development is being completed in collaboration with the UK Met Office-Academia chemistry/aerosol climate model, UKCA.

In this presentation I will summarize some of the progress that has been made within QUAAC, including some early results from off-line coupling of the chemistry and emission models. I will also outline some of the proposed experiments for the completed model.

See <http://researchpages.net/QUAAC> for more information.