

## The composition and stability of U(IV)-silicate colloids in alkaline systems

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### 9<sup>th</sup> International Conference on Nuclear and Radiochemistry

I would like to thank the Mineralogical Society of Great Britain and Northern Ireland for awarding me a travel bursary which enabled me to attend the 9<sup>th</sup> International Conference on Nuclear and Radiochemistry – NRC9, in Helsinki, Finland. Here I was given the opportunity to present my work on the stability and composition of U(IV)-silicate colloids in alkaline systems. My presentation was in a session titled ‘Radionuclide Speciation’ and was followed by questions and discussions from the audience which helped me gain a greater understanding of my work and how it applies to other work in the research area. Other session themes included The Chemistry of the Nuclear Fuel Cycle, Environmental Radioactivity and Actinide Chemistry. The opportunity to attend this conference with the broad variety of scientific topics allowed insight into the variety of techniques that can be applied to systems relevant to my work.



**Presenting my work on U(IV)-silicate colloids**

Some of the many highlights of the conference included a talk on the speciation of Chernobyl Lava by Irina Vlasova, David Read’s talk on Naturally Occurring Radioactive Matter (NORM) and Jan Rijn Zeevaart’s talk on the Devaluation of Rhino Horns through nuclear techniques. It was, of course, also great to hear that the University of Manchester will host NRC10 in 2020.

Along with the oral presentations, there were two poster sessions during the conference which made it possible to discuss other researcher’s work in great detail. These poster sessions, alongside the receptions and conference dinner offered great opportunities for networking with the other conference attendees who were from institutions in over 30 different nations. These conversations have helped improve my understanding of the work being carried out in my area of research and helped to determine the progression of my PhD project.