

IUPAC Project Progress Report

Date: October 2008

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Project number: 1999-050-1-500

Project Title: Chemical Speciation of Environmentally Significant Heavy metals and Inorganic Ligands

Report:

1. Current status of project: The present project can be regarded as consisting of 5 +1 subprojects (5 +1 papers). The first two subprojects (the Hg(II) and Cu(II) systems) are completed and published in PAC. The third one (the Pb(II) system) is planned to be submitted late October/early November this year.

2. Progress relative to 'milestones':

3. Difficulties encountered (or concerns): To keep up with the time table

4. Projected completion date (documents ready for external review): Next subproject (the Cd(II) system) is estimated to be completed in June 2009. After that we will need additional two years before the Zn(II) system and the summarizing paper will be completed.

5. Please list all of the intended outputs and the dissemination plan for this project (viz. articles, CD, conference presentations; etc.). These may have been expanded since project approval:

Chemical Speciation of Environmentally Significant Heavy Metals with Inorganic Ligands

Part 4: The Cd^{2+} - Cl^- , OH^- , CO_3^{2-} , SO_4^{2-} and PO_4^{3-} systems.

Part 5: The Zn^{2+} - Cl^- , OH^- , CO_3^{2-} , SO_4^{2-} and PO_4^{3-} systems.

Part 6: A paper summarizing results from Parts 1-5.

6. If your project is within 6 months of completion, how do you plan to utilise any remaining budget for this project? The project will not be completed within the next 6 months. Therefore we do not plan any changes with respect to the budget. The remaining budget will be needed to cover travel costs within the project.

7. Work on this project may have identified new problems, issues, challenges, emerging topics, opportunities for related projects, etc. Please indicate these here so that the Division can follow up on them: There is an obvious need for critically evaluated thermodynamic data on different metal ion - organic ligand systems.