

## IUPAC Project Progress Report

**Date :** December 2005 ; Period: July 2005 – February 2006

**Project number:** 2002-032-1-500

**Project Title:** Solubility data of compounds relevant to mobility of metals in the environment. Metal carbonates (Mn, Fe, Co, Ni, Cu, Zn, Ag, Cd, Hg, Pb)

**Task Group Leader:** Heinz Gamsjäger

**Starting date:** September 2003

### Report:

1. Projected completion date (documents ready for external review):

*Postponed to the end of 2007*

2. Have the project objectives been modified during the last 6 months?

*No*

3. Please list the task group members involved in the work during the last 6 months.

*From time to time emails were exchanged with Wolfgang Hummel, Erich Königsberger, Clara Magalhães, and Kiyoshi Sawada.*

4. Difficulties encountered (or concerns):

*As the Task Group Chairman could not get any continuous support, the completion date of this project has to be postponed until the end of 2007.*

5. Please list the to-date results (outputs) of the project:

*The various metals are in different stages. Ni: compilation and critical evaluation completed. Cd: critical evaluation completed, Zn, Cu, Fe: compilation and evaluation essentially completed. Mn: compilation advanced, evaluation started. Pb, compilation advanced, evaluation started. Co, Hg, Ag compilation advanced, evaluation not started yet.*

6. Please list the dissemination events (viz. articles, CD, conference presentations; etc.)

(i) already accomplished;

(ii) planned

(i) *11<sup>th</sup> ISSP (Aveiro, Portugal 2004), Oral Presentation "Thermodynamic Analysis of Solubility Data: From Experimental Data to Partial Derivatives" Poster at GA in Beijing: Thermodynamic Analysis and Application of Metal Carbonate Solubilities, Heinz Gamsjaeger, Erich Koenigsberger and M. Clara Magalhães*

(ii) *A volume of the IUPAC-NIST Solubility Data Series is in progress for publication in J. Phys. Chem. Ref. Data.*

7. If your project is within 6 months of completion, how do you plan to utilise any remaining budget for this project? *Not applicable*

8. 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.