

## SUBCOMMITTEE ON SOLUBILITY AND EQUILIBRIUM DATA

Chairman's Activity Report, since  
GA 2007

## Visibility of SSED within IUPAC 2007/2008

- *CI*, 29, No. 5, September - October 2007  
*Bookworm* p. 22, *Erich and LanChi Königsberger* (editor)  
"Biomineralization—Medical Aspect of solubility", John Wiley & Sons, 2006.
- *CI*, 30, No. 1, January – February 2008
  - *Making an imPACt* p. 27, "Alcohols with Water", IUPAC-NIST Solubility Data Series, *JPCRD*, 2007. Four new IUPAC SDS projects "Solubility data related to industrial processes" have been initiated. 1) Solubility in systems with lithium and/or sodium nitrates, chair: [Jitka Evsseltova](#). 2) Solubility of higher alkynes in liquids, chair: [Peter G. T. Fogg](#). 3) Mutual solubility of esters with water, chair: [Marian Goral](#). 4) Nitriles C+3: binary and multicomponent systems, chair: [Valeri Sazonov](#).
  - *Mark Your Calendar* p. 41, 27-31 July 2008 13th International Symposium on Solubility Phenomena Including Equilibrium Processes (ISSP-13), Dublin, Ireland. Prof. Earle W. Waghorne, Chairman. <[www.isspdublin08.com](http://www.isspdublin08.com)>

## Visibility of SSED within IUPAC 2007/2008 (continued)

- *Pure and Applied Chemistry*, 80, No. 2 (2008), pp. 233-276 (project No: 2005-017-1-500)
  - *Glossary of Terms Related to Solubility (IUPAC Recommendations 2008)*, Heinz Gamsjäger, John W. Lorimer, Pirketta Scharlin, and David Shaw (corresponding author)

## Completed SDS Volumes

- Volume 81: *Andrzej Mączynski, David G. Shaw* (editors),
  - "Hydrocarbons with Water and Seawater – Revised and Updated,"
    - *J. Phys. Chem. Ref. Data*, 2006, 35, No. 1, parts 9 and 10 (pp. 93-203)
    - *J. Phys. Chem. Ref. Data*, 2006, 35, No. 2, parts 11 and 12 (pp. 785-838).
- Volume 82: *Andrzej Mączynski, David G. Shaw* (editors),
  - "Alcohols with Water—Revised and Updated: C4- C7 Alcohols with Water,"
    - *J. Phys. Chem. Ref. Data*, 2007, 36, No. 1, parts 1 and 2 (pp. 59-190)
    - *J. Phys. Chem. Ref. Data*, 2007, 36, No. 2, parts 3 and 4 (pp. 399-484)
    - *J. Phys. Chem. Ref. Data*, 2007, 36, No. 3, part 5 (pp. 685-731).
- Volume 83: *V.P. Sazonov, David G. Shaw* (editors),
  - "Acetonitrile: Ternary and Quaternary Systems,"
    - *J. Phys. Chem. Ref. Data*, 2007, 36, No. 3, 733-1131
- Volume 84: *Jiri Hála* (editor)
  - "Solubility of Inorganic Actinide Compounds,"
    - *J. Phys. Chem. Ref. Data*, 2007, 36, 1417 – 1736
    - Published 11 December 2007

## Completed SDS Projects

- Project number: 2005-017-1-500
  - Project Title: **Glossary of terms related to solubility – Updates and revisions to the Orange Book**
  - Task Group Leader: *DG Shaw*
  - Starting date: July 2005
  - H. Gamsjäger, J. W. Lorimer, P. Scharlin, D. G. Shaw, **Glossary of terms related to solubility** (IUPAC Recommendations 2008), *Pure Appl. Chem.*, **80**, No. 2 pp. 233-276
- Project number: 2005-033-1-500
  - Project Title: **Transition and 12 to 14 Main Group Metals, Lanthanide, Actinide and Ammonium Halates**
  - Task Group Leader: *Hiroshi Miyamoto*
  - Starting date: 2002
  - Report: Project has been completed in December 2005, page proofs arrived Feb 2008, SDS vol. 85

## SDS Projects in progress

- 11 other projects still ongoing
- Also the following new projects:
  - **Peter G.T. Fogg**, Task Group Leader: **SDS, Solubility of Higher Alkynes in Liquids**
    - Complement to volume 76 of the Solubility Data Series entitled Solubility of Ethyne in Liquids, Peter G.T. Fogg (ed.).
  - **Marian Goral**, Task Group Leader: **SDS, Mutual Solubility of Esters with Water**
    - Task Group Members: Andrzej Maczynski, Barbara Wisniewska-Gocłowska, David Shaw, Mark Salomon
  - **Valerii Sazonov**, Task Group Leader: **SDS, Nitriles C+3: Binary and Multicomponent Systems**
    - Task Group Members: David Shaw, Marian Goral, Mark Salomon
  - **Jitka Eysseltova**, Task Group Leader: **SDS, Solubility in systems with lithium and/or sodium nitrates**
    - Task Group Members: [Mark Salomon](#), [Stefka Tepavicharova](#), [Vladimir Valyashko](#), and [Wolfgang Vogl](#)
  - **David Shaw**, Task Group Leader: **TR, An Introduction to the IUPAC-NIST Solubility Data Series: Preparation and Use of Compilations and Evaluations**
    - Task Group Members: Heinz Gamsjaeger, Jack Lorimer, Mark Salomon, Reginald Tomkins

## International Symposium on Solubility Phenomena and Related Equilibrium Processes

- 13<sup>rd</sup> ISSP
  - will be held at the University College, Dublin, Ireland, July 27-31, 2008
  - parallel Workshop planned on “SC-Database: project management, organization of data collection, entry and verification”
- 14<sup>th</sup> ISSP
  - 2 proposed sites, choice to be made at Dublin SSER