SUBJECT INDEX, VOLUME 4, 2003

0. GENERAL ISSUES IN SCIENCE EDUCATION

- Globalisation in chemistry education research and practice (Editorial). G. Tsaparlis: (1) 3-10.
- An Interview with Hans-Jürgen Schmidt. L. Cardellini: (1) 11-17.

1. METHODS AND ISSUES OF TEACHING AND LEARNING

- Facilitating science learning in the inter-disciplinary matrix - Some perspectives on teaching chemistry and physics. K.S. Taber: (2) 103-114.
- Chemistry and physics instruction: Integration, ideologies, and choices. G.S. Aikenhead: (2) 115-130.
- Linking physics with chemistry - Opportunities in a constructivist classroom. R. Toomey & F. Garafalo: (2) 189-204.
- Lost without trace or not brought to mind? - A case study of remembering and forgetting of college science. K.S. Taber: (3) 249-277.

2. CONCEPTS

- Chemical phenomena, chemical reactions: Do students make the connection? G. Tsaparlis: (1) 31-43.
- Understanding ionisation energy: Physical, chemical and alternative conceptions. K.S. Taber: (2) 149-169.
- Instructional misconceptions of Turkish prospective chemistry teachers about atomic orbitals and hybridization. C. Nakiboglu: (2) 171-188.
- Students' difficulties in understanding of the conservation of matter in open and closed-system chemical reactions. H. Ozmen & A. Ayas: (3) 279-290.
- A longitudinal study on 10-12 years-olds’ conceptions of the transformations of matter. O. Eskilsson & G. Helldèn: (3) 291-304.

3. CONCEPT TEACHING AND LEARNING

- 

4. PROBLEM SOLVING AND OTHER HIGHER-ORDER COGNITIVE SKILLS (HOCS)

5. ASSESSMENT

- Analysis of Turkish high school chemistry examination questions according to Bloom’s taxonomy. S. Karamustafaoglu, S. Sevim, O. Karamustafaoglu, & S. Cepni: (1) 25-30.
- Integrating learning and assessment in laboratory work. C. Hunter, R. McCosh, and H. Wilkins: (1) 67-75.

6. SCIENCE-TECHNOLOGY-ENVIRONMENT-SOCIETY (STES)

- Teaching photography: Interplay between chemical kinetics and visual art. D. Stamovlasis: (1) 55-66.

7. NET

- Teaching information retrieval in the university curriculum. E. Mesko: (3) 373-385.

8. ATTITUDES

- An investigation of Irish students’ attitudes to chemistry; The Promotion of Chemistry in Schools Project. E. Regan & P.E. Childs: (1) 45-53.

9. CURRICULA AND POLICIES

- Analysis of Turkish high school chemistry examination questions according to Bloom’s taxonomy. S. Karamustafaoglu, S. Sevim, O. Karamustafaoglu, & S. Cepni: (1) 25-30.
- Rethinking the education of chemists – The odyssey is over, time for action! R.G. Wallace: (1) 83-91.
- What physics teaches, apart from physics, that is valuable in chemistry or related degrees at undergraduate level. M.J. Pitt: (2) 219-225.

10. TEACHER TRAINING

- 

11. EXPERIMENTS AND PRACTICAL WORK

- Integrating learning and assessment in laboratory work. C. Hunter, R. McCosh & H. Wilkins: (1) 67-75.
- Experimental training for chemistry students: Does experimental experience from the general sciences contribute? J. Josephsen: (2) 205-218.

12. HISTORY AND PHILOSOPHY OF CHEMISTRY