

# Chemistry Education Research and Practice

## Themed issue:

### *Sustainable Development and Green Chemistry in Chemistry Education*

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Sustainable development is vital for maintaining the prosperity of our society while safeguarding resources for future generations. Chemistry is one of the central science disciplines to enable sustainable development because chemistry is the key to the production of a broad range of old and new materials and goods that make our life easier, more comfortable or healthier. Developing new products and new production pathways under environmentally more benign conditions is vital for modern chemistry and industrial production to combine both development and sustainability, and this issue should become part of chemistry teaching also. The importance of sustainable development in the field of education has been stated e.g. in the Brundtland report and can be seen by the fact that the years 2005-2014 became the UN decade of education for sustainable development (DESD).

#### CALL FOR PAPERS

Contributions are invited for a themed, peer-reviewed issue of CERP on *Sustainable Development and Green Chemistry in Chemistry Education*

The contributions can be of four kinds:

- (a) research-based papers
- (b) papers on good/effective practice in teaching sustainability issues and aspects of green chemistry from both secondary and tertiary level chemistry teaching.
- (c) theoretical papers about students' or teachers' understanding of the field of sustainable development and green chemistry (position papers / perspectives)
- (d) reviews of research on *teaching about sustainable development and green chemistry*.

Possible topics for contributions include, but are not limited to:

1. Using *Education for Sustainable Development* (ESD) with the aim to acquiring a reflective action ability to shape the world in a sustainable way involving ecological, economic and social-political dimensions.
2. Close observation, analysis, evaluation, and the shaping of concrete situations about sustainable development and green chemistry as creative and cooperative processes.

3. Sustainable development in chemistry education as a means to make students in school and university aware of the emphasis that chemistry as a scientific discipline, and the chemical industry is placing on the development of more sustainable products and procedures.
4. School and university students' learning how chemistry is dealing with the challenge of sustainable development and green chemistry, about their guiding principles and their methods and successes.
5. Showing that learning about sustainability issues in chemistry education is necessary both to make students aware and competent in the field and enable them to participate in societal debates about the future development of chemistry and the chemical industries.
6. Using sustainable chemistry to improve students' potential career choices and to get a balanced view of recent efforts in the domain of chemistry.

For the instructions on submission of manuscripts please consult the journal website.

Enquiries concerning the suitability of possible contributions should be sent directly by email to:  
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**IMPORTANT DATES:** Manuscripts should be submitted by 30 September 2011 and will be subject to the journal's usual peer review process. Where revisions are required, these must be submitted by 31 January 2012.