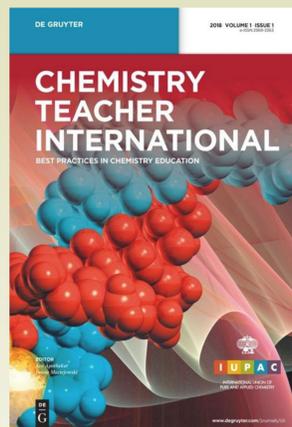


Committee on Chemistry Education

We promote excellence in chemistry education worldwide through projects, conferences and the IUPAC journal *Chemistry Teacher International*

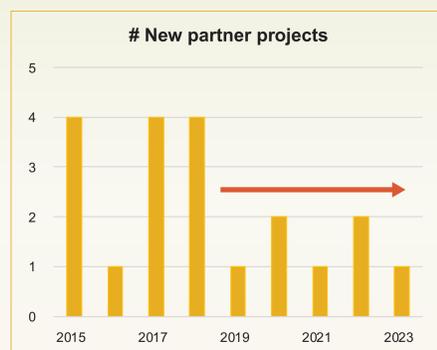
CCE priorities for the current biennium (2022 – 2023)

- To develop relationships for working collaboratively with groups both inside and outside of IUPAC
- To support projects and initiatives that promote and disseminate evidence-based teaching practices and innovations for high-quality chemistry education;
- To support both formal and informal chemistry education initiatives that promote public appreciation of the value and contribution of chemistry, as well as an understanding of environmental, ethical, and social responsibility issues related to chemistry;
- To support initiatives aimed at integrating the principles of sustainable development in chemistry education; and
- To support chemistry education in developing countries through outreach programs, targeted projects and regional conferences.



- Launched in June 2019, 13 issues published
- 121 articles, 17 preprints, and 4 special issues published to date
- Indexed by both SSCI and Scopus (IF 1.5)
- Broad international author base and readership

Projects pipeline

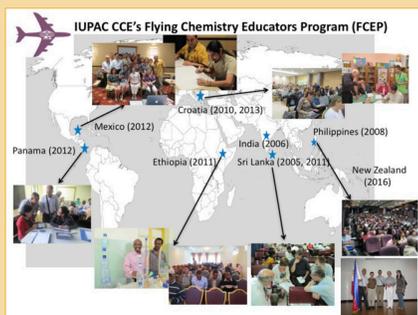


Achievements (2021 – 2023)

- The CCE has fully recovered from the slump in conference and project activity imposed by the pandemic. The 26th ICCE was hosted successfully in July 2022; the project pipeline is restored.
- The CCE legacy programs were revived: two Young Ambassadors for Chemistry (YAC) events were held in Cape Town (July 2022) and Malaysia (July 2023) and two Flying Chemistry Educators Program (FCEP) workshops on small-scale chemistry were held in Nepal (Oct 2022) and Sri Lanka (July 2023).
- All projects led by the CCE are well-aligned with the IUPAC strategic plan and CCE priorities for this biennium. Project work focuses on promoting the alignment of chemistry education with sustainability imperatives, either through systems thinking projects or green chemistry education.
- Chemistry Teacher International (CTI) is fully established. CTI was accepted in both SSCI and Scopus. The first impact factor was assigned: 1.5 by clarivate; the scopus citesscore is 2.0. The journal is financially sound, making a small profit every year.

CCE programs with a proud history

The Flying Chemistry Educators Program (FCEP)



The Flying Chemistry Educators Program (FCEP) founded by Peter Atkins: 13 events since 2005.

The aim of the program is to help emerging countries improve the teaching and learning of chemistry at the primary, secondary, and tertiary levels.



FCEP & YAC Pioneers: Peter Atkins, Lida Schoen, Mei-Hung Chiu, & Erica Steenberg

The Young Ambassadors for Chemistry Program (YAC)



The Young Ambassadors for Chemistry Program (YAC) since 2004 aims to equip teachers and raise public awareness

It consists of a teachers' workshop, followed by a public event where students carry out experiments guided by their teachers.

Conferences

The International Conference on Chemistry Education (ICCE) is the flagship biannual conference of CCE and is presented around the globe

- The 26th IUPAC ICCE2020 was hosted by South Africa in Cape Town, 18 – 22 July 2022
- The 27th IUPAC ICCE will be hosted by Thailand in Pattaya, 15 – 19 July 2024

Current projects

2023-002-2-050 - International Teacher Survey on **Green and Sustainable Chemistry** (GSC) Practical Activities

2023-003-3-050 - Young Ambassadors for Chemistry (YAC) Kuching, July 2023

2023-004-2-050 - Connecting Chemistry Teaching to **Sustainability** Through Systems Thinking - workshop in NZ

2023-005-2-050 - Capacity building of teachers with hands-on small scale experiments in Sri Lanka (FCEP)

2022-013-1-050 - Systems Thinking and **Sustainability** - a workshop at 5th ACRICE conference in Egypt

2020-014-3-050 - Systems Thinking in Chemistry for **Sustainability**: Toward 2030 and Beyond (STCS 2030+)



CCE actively supports regional conferences on chemistry education:

- 9th NICE (Network of Inter-Asian Chemistry Educators) in Kuching, Malaysia: 28 – 30 July 2023
- ACRICE (African Conference on Research in Chemistry Education) – 5th ACRICE held in Cairo, Dec 2022; the next ACRICE will be hosted by Tanzania

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Standing Committee Secretary

Felix M. Ho (Sweden)

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Denis Zhilin (Russia)

Ex Officio

Peter Hotchkiss (OPCW)

WCC FOCUS SESSION 47:

Systems thinking as a Linchpin in Chemistry Education

Monday 21 August, 2023, 15:10 – 16:40, in the Oceania (venue)

ECRICE and BCCE

- CCE engages with organisers to look for synergies & coordinate dates.
- BCCE 2024 (Renée Cole): 28 July - 1 August in Lexington, Kentucky. ECRICE 2024 (Rachel Mamlok-Naaman): 5 – 7 Sept in Oporto, Portugal (tbc).