



HIGHLIGHT # 4 – KNOWLEDGE BROKERAGE

The following events have been established by c*change to promote internal knowledge sharing and training amongst its members, as well as to enable all members to network with internationally recognised experts in the field, particularly enabling postgraduate students to benefit from these interactions.

c*change Good Research Practice Course

Frequency: Held annually from 2013 to current

Duration: 3-day event (incl. follow-up interventions over MSc study duration)

Attendees: New MSc students
Typically, 10 – 15 students

Purpose: To provide new MSc students with the necessary tools to embark on a swift and successful research career through coursework and workshops, thereby reducing their MSc study duration

c*change Symposium

Frequency: Held annually from 2005 to current

Duration: 2-day event (precedes the 4-day national Catalysis Conference, CATSA)

Attendees: All c*change members (postgraduate students, postdoctoral fellows and staff)
Typically, 70 – 90 delegates

Purpose: To ensure that all c*change members are updated on the status of c*change and share technical progress through workshops and project presentations
To ensure that c*change is well-represented by its postgraduate student cohort at the national Catalysis Conference, CATSA (both events are held at the same venue or in close proximity)

c*change Autumn School

Frequency: Held in 2012, 2015 and 2018

Duration: 3-day event (precedes the Syngas Convention)

Attendees: Postgraduate students (c*change and international students)
Typically, 60 delegates

Purpose: To expose c*change postgraduate students to relevant catalysis topics through a series of interactive seminars given by local industrialists and world-renowned academics in the field of catalysis, and to network with international students and academics

c*change Syngas Convention (incl. Scientific Leadership Course in 2015)

- Frequency: Held in 2012, 2015 and 2018
- Duration: 4-day event (follows the Autumn School)
- Attendees: Industrialists and academics in the field of synthesis gas chemistry
Typically, 100 delegates (split 50:50 local and international), incl. c*change students
- Purpose: To host an international convention with a specific focus in the field of synthesis gas chemistry (the strength of the South African chemical industry) where delegates can network with renowned industrialists and academics, both from South Africa and the rest of the world
The Scientific Leadership Course was presented to c*change's Young Researchers as a contribution to c*change by its internationally renowned collaborators

The following events have had a significant c*change presence, both in organisation as well as attendance.

CATSA Conference

- Frequency: Held annually since 1990
- Duration: 4-day event
- Attendees: Industrialists and academics in the field of catalysis
Typically, 180 – 250 delegates ($\pm 90\%$ South African, $\pm 50\%$ student participation)
- Purpose: The CATSA Conference is the national South African catalysis conference and has a heavy focus on student participation. c*change has been well-represented since the start of the CoE

Faraday Discussions

In January 2017 c*change organized the first ever Faraday Discussions event on the African Continent. Faraday Discussions, a conference series promoted by the Royal Society of Chemistry (RSC) UK, are held in a unique format to the scientific community. Focusing on topics from physical chemistry, chemical physics and biophysical chemistry, oral presentations are given by both invited speakers of high international standing as well as speakers selected from submitted abstracts. In contrast to other scientific conferences all speakers have to submit a novel research paper which is peer-reviewed and distributed to all delegates before the meeting. At the meeting itself speakers have only five minutes to present the core findings and conclusions of their paper before it is opened for an extended discussion which is recorded in detail and subsequently published along the paper in the Journal Faraday Discussions (IF 4.606). This publication has been produced as volume 197 of the Faraday Discussions published by the RSC in 2017.

ANSDAC

Early in 2018, c*change secured funding from the Royal Academy of Engineering with a consortium of SASOL, UWC, UCT and the University of Glasgow, to hold two training workshops on synchrotron and neutron data analysis in 2018 and 2019. The project termed ANSDAC (African Neutron and Synchrotron Data Analysis Competency www.ANSDAC.com) hosted 15-20 emerging faculty researchers from Africa per workshop who were trained by UK experts in the art of data analysis as well as how to successfully apply for beamtime. The first workshop was held in Cape Town from the 28th of November to the 7th of December 2018 and the second one from the 16th to the 24th of October 2019. 30 Participants from 16 South African and 3 African institutions attended.