

# 2018 CHPC National Conference



**Sunday 02 December 2018 - Thursday 06 December 2018**

**Century City Convention Centre**

## **Scientific Programme**

## **Astronomy/SKA**

Astronomy and the SKA.

## **Computational Chemistry**

Computational chemistry, including pharmacology and related applications.

## **Computational Mechanics**

Computational mechanics, including computational electromagnetics and related areas in engineering and science.

## **Bioinformatics and Biological Sciences**

Bioinformatics and biological sciences.

## **HPC Techniques and Computer Science**

HPC techniques and computer science.

## **Earth Systems Modelling**

Earth systems modelling, including ocean, atmosphere, weather and climate sciences, and environmental science.

## **Materials Science**

Materials science and related physics.

## **Astrophysics and Space Physics**

Astrophysics, cosmology and space physics.

## **Storage and I/O**

Extremely large storage and very fast I/O.

## **Cognitive Computing & Machine Learning**

AI, cognitive computing, big data and machine learning.

### **B.o.F**

Birds of a feather sessions dedicated to speciality topics and discussions.

### **S.I.G.**

Special Interest Group meeting.

## **Workshops**

Workshops take place on Sunday or Thursday and are half-day or one day in duration. They are dedicated to a single topic and include short courses, tutorials, mini-symposia or workshops.

## **SA NREN**

South African National Research and Education Network dedicated track.

## **DIRISA**

Data Intensive Research Initiative of South Africa dedicated session.

## **HPC Technology**

The technology of HPC, hardware and software.

## **Physics**

Physics, including particle and nuclear physics.

## **Chemistry and Material Science SIG Seminar**

A dedicated Chemistry and Material Science SIG session consisting of slots for keynotes, ordinary oral presentations, student oral presentations as well as flash poster presentations.

The program will also include the annual SIG meeting and announcement of best student oral presentation as well as the best poster in Chemistry and Material Science.