

We invite researchers, students and industry to attend the symposium in celebration of the strides in research undertaken in South Africa in the last two decades. Presentations on key issues in South Africa will be given as well as poster presentations by students driving toward a bright future in South Africa.

[DATE]

12th & 13th
September

[VENUE]

Science Stadium
West Campus
Wits University



DST-NRF CENTRE OF
EXCELLENCE IN
MATHEMATICAL &
STATISTICAL SCIENCES

M a S S



20 YEARS OF DEMOCRACY: SYMPOSIUM ON MATHEMATICS IN THE NEW SOUTH AFRICA

OVERVIEW

The proposed workshop and symposium is an event to highlight the great work done by South African researchers in their respective fields over the last 20 years of democracy. The symposium will act as a spring board for researchers to present their work to industry to build collaborations for post graduate research and assist with funding.

GOALS

The main aim of the symposium is to highlight and acknowledge the immense amount of world-class research that is being conducted by South African researchers at South African Universities. We hope to draw new problems from industry, encourage collaborations between local universities and bring to light emerging areas of research and potential funding opportunities. The symposium will also create positive media attention for the University and the School of Computational and Applied Mathematics which would lead to new and better students approaching the university for further studies.

FORMAT

The symposium will take place over two days and to be held at the Wits Science Stadium. The following is a suggested structure:

Day 1:	
09:00 – 10:00	Plenary Talk
10:00 – 10:30	Tea
10:30 – 11:30	Plenary Talk
11:30 – 13:00	Presentations
13:00 – 14:00	Lunch and Poster Session by Post Graduate Students
14:00 – 15:00	Presentations
15:00 – 15:30	Break
15:30 – 16:30	Plenary Talk

Day 2:	
09:00 – 10:00	Plenary Talk
10:00 – 10:30	Tea
10:30 – 11:30	Plenary Talk
11:30 – 13:00	Presentations
13:00 – 14:00	Lunch and Poster Session by Post Graduate Students
14:00 – 15:00	Presentations
15:00 – 15:30	Break
15:30 – 16:30	Open Panel Discussion

SUGGESTED TOPICS

While the area of mathematics is extremely broad we hope to focus the talks given to South African research as well as problems that have arisen in South Africa. Below is a list of suggested topics.

- Mathematics Education
- Mathematics in Industry (Sugar extraction, mining, glass cutting optimisation...)
- Mathematics for Marine Science
- Mathematics for Climate Change
- Mathematics in Finance (Micro-market structures of the JSE...)
- Research in Mathematics (NRF)
- Mathematics in Biology (Rhino poaching...)
- High performance computing and associated mathematics

As organisers we would try to cover the main research areas covered by the School of Computational and Applied Mathematics:

- Symmetries
- Modelling
- Image Processing
- Numerical Methods
- Optimisation
- Mechanics

FURTHER COMMENTS

The focus of the symposium is to bring to light the extent to which applied mathematics and computational problems affect problems arising all over the world and especially in South Africa. We suggest inviting research from across the country to participate and present their work which is aligned with the goals of the symposium.

Information regarding the conference can be found on [the website](#).