



BLUE BULLETIN 7

Many thanks to Madelein and her team (Eder, Desiree, Phindile, Siphokazi, Charles, Lesedi, Mokhwetha and Gusti) for their contributions on #ChooseUP day.

AWARD

Congratulations to Jacek Banasiak on being elected Fellow of the Royal Society of South Africa.

RESEARCH VISIT

A Jooste will be on a research visit at the University of Kassel, Germany, from 18/10/2023 to 18/11/2023.

CONFERENCES, SEMINARS AND WORKSHOPS

- J Banasiak gave an invited talk on “How well do mathematical models reflect the real world - successes and failures of mathematical modelling” at the 66th School of Visual Mathematics which was held from 25–28 August 2023 in Siedlce, Poland. He also talked on Mathematical Models in Science at the NAS Research Symposium, Pretoria on 30 August 2023. Thirdly, he gave a keynote speech entitled “On mathematical modelling and biomathematics” at the Research-led farewell workshop in honour of Professor Witbooi on 5 September 2023.
- M Gandhi gave a talk on “Modelling Chaotic Systems from Data” at the 43rd Conference on Dynamics Days Europe that was held in Italy, from 3–8 September 2023. He will also deliver an invited talk entitled “Embedding Dynamics For Consistent Learning” at the University of Cape Town on 24 October 2023.

DEATH

We regret to announce the death of our colleague ‘Dr Charles Maepa’ who passed away on 30/09/2023.

BIRTHDAYS

OCTOBER

- 20 - Berge Tsanou
- 24 - Michael Chapwanya
- 25 - Rodwell Kufakunesu
- 25 - Hanlie Venter
- 30 - John van den Berg

NOVEMBER

- 5 - Yash Madanha
- 8 - Mathibe Nchabeleng
- 15 - Gaza Maluleke
- 24 - Lesedi Mabitsela

COMPETITIONS

South African Tertiary Mathematics Olympiad

Twenty-two of our students wrote the South African Tertiary Mathematics Olympiad on Saturday 19 August 2023. Two of our students ranked amongst the top ten undergraduates nationally, out of 297 participants from 17 universities:

- Zerwick de Lange (2nd year BSc Physics student): shared 4th position;
- Gerlo Theron (2nd year BSc Mathematics student): shared 9th position.

Wits Mathematics Competition

Twelve students from UP qualified for the final round of the Wits Mathematics Competition on Wednesday 13 September 2023. The names of the students are:

- Lourie Bosman (2nd year BSc Physics);
- Liné Crafford (2nd year BSc Actuarial and Financial Mathematics);
- Zerwick de Lange (2nd year BSc Physics);
- Amkhitha Diko (2nd year BEng Computer Engineering);
- Michael Dreeckmeier (2nd year BSc Mathematics);
- Darren Hill (2nd year BEng Mechanical Engineering);
- Keamogetswe Mabando (3rd year BSc Mathematics);
- Shuaib Nuruddin (3rd year BSc Computer Science);
- Kwanele Phewa (1st year BSc Applied Mathematics);
- Eduard Plint (2nd year BSc Applied Mathematics);
- Franco Prins (2nd year BEng Mechanical Engineering);
- Gerlo Theron (2nd year BSc Mathematics).

Their final results are not yet available.

South African Mathematics Team Competition

Our department entered four teams, each with ten high school learners, on behalf of the Gauteng North region, for the 2023 ASSA South African Mathematics Team Competition. Many of these learners were enrolled in our Siyanqoba Programme this year. Our teams performed as follows:

- Junior 1st team: 2nd nationally out of 39 teams;
- Junior 2nd team: 15th nationally out of 39 teams;
- Senior 1st team: 3rd nationally out of 34 teams;
- Senior 2nd team: 11th nationally out of 34 teams.

EDITORSHIP

J Banasiak (with K Szymańska-Dębowska) edited a special issue on Nonlinear analysis and differential equations, in celebration of the 80th birthday of Jean Mahwin for *Math. Methods Appl. Sci.* **46** (11) (2023), 11747–12124.

PUBLICATIONS IN ISI/ACCREDITED JOURNALS

Congratulations to the following colleagues whose articles have been published

- R Anguelov and JMS Lubuma – *Advances in Continuous and Discrete Models* **38**(2023), 22 pp.
- J Banasiak and Y Dumont (with IV Yatat Djeumen) – *Differential Equations and Dynamical Systems* **31**(3)(2023), 547–580.
- DJ Fresen – *Quaestiones Mathematicae* **46**(7)(2023), 1367–1384.

- SY Tchoumi (with CW Chukwu, ML Diagne, H Rwezaura, ML Juga and JM Tchuenche) – *Network Modeling Analysis in Health Informatics and Bioinformatics* **12(7)**(2023), 19 pp.
- SY Tchoumi (with H Rwezaura, ML Juga and JM Tchuenche) – *Healthcare Analytics* **3**(2023); 100165.
- SY Tchoumi (with NY Njintang, JC Kamgang and JM Tchuenche) – *Franklin Open* **3**(2023); 100013.

Congratulations to the following colleagues whose articles have been accepted

- M Chapwanya and P Dumani – *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*
- E Maré (with S Hariparsad) – *Investment Analysts Journal*
- JG Raftery (with A Fallahi) – *Studia Logica*
- W van Amstel and JH van der Walt – *Journal of Mathematical Analysis and Applications*
- JJ Wannenburg (with T Moraschini and K Yamamoto) – *The Journal of Symbolic Logic*

SY Tchoumi is a postdoc of J Banasiak.

SAMSA

Our very own Department of Mathematics and Applied Mathematics and the Department of Statistics of this great institution will co-host the 2023 SAMSA conference from 21–24 November 2023 at the Future Africa Campus of our university; see <https://www.up.ac.za/cf-samsa2023> for details.

