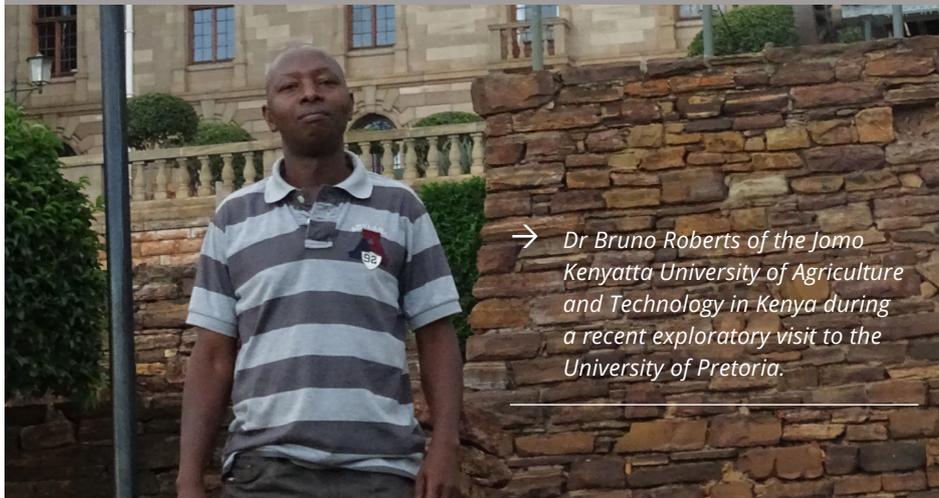


His research interests include steel degradation mechanisms, fitness for service evaluations, failure analyses, environmentally assisted cracking and alternate dispute resolution. He has delivered papers at a number of conferences both locally and internationally, and has authored and co-authored articles in peer-reviewed journals, as well as numerous technical and policy reports. Furthermore, Prof Mostert has six registered product patents to his credit, as well as the development of a high-ballistic resistance steel plate prototype, produced at two locations in Europe and tested in South Africa.

As Head of Department, Prof Mostert plans to strengthen research in those areas that are already well established in the Department. He also plans to expand research related to globally relevant issues in the mining industry, such as the integrity of materials and components, particularly as these issues relate to the degradation and fracture of materials, as well as their investigation and prevention.

Collaboration with the other departments at the University that form part of the mineral sciences value chain (Geology and Mining Engineering), participation in the activities of the newly established Mining Resilience Research Institute, and fostering cooperation with and developing joint initiatives with international research and academic institutions will ensure that the Department continues to make a meaningful contribution in an industry that plays such an important role in the economic wealth of the country. 📍

Materials Science and Metallurgical Engineering engages in continental collaboration



→ *Dr Bruno Roberts of the Jomo Kenyatta University of Agriculture and Technology in Kenya during a recent exploratory visit to the University of Pretoria.*

The University of Pretoria's Department of Materials Science and Metallurgical Engineering has signed a Memorandum of Understanding (MoU) with the Jomo Kenyatta University of Agriculture and Technology (JKUAT) in Kenya, which will result in joint teaching, research and technological development between the two institutions for a period of five years.

JKUAT provides higher learning facilities for university education, participates in the discovery, transmission, preservation and enhancement of knowledge, and stimulates the intellectual participation of students to further the economic, agricultural, professional and cultural development of Kenya. Its mission is to provide accessible, quality university education, training, research and innovation in order to provide leaders in the fields of agriculture, engineering, technology, enterprise development, health and other applied sciences to suit the needs of a dynamic world.

The collaboration entered into between the two institutions is aimed at fostering cooperation and the development of joint initiatives aimed at achieving the following:

- Boosting and enhancing development and industrialisation through research, training, innovation, technological development, and commercialisation and marketing in the areas of engineering, technology and related fields.
- Providing an instrument for establishing various collaborative initiatives for the growth and mutual benefit of the two institutions.
- Enhancing the professional skills and networking of staff of both institutions through training, staff and student interactions, and the exchange of experiences and information.
- Providing a basis for the promotion of materials and metallurgical engineering in Kenya and South Africa.

The institutions will collaborate in terms of the sharing of physical facilities, institutional capacity-building, staff exchange and attachment, the exchange and dissemination of information, and research, innovation and technology development. 📍