Namibia is currently ranked the fifth-largest producer of uranium in the world and is set to become the world’s second-largest producer once Swakop Uranium’s Husab Mine is fully operational. This will undoubtedly position Namibia as a major uranium mining hub and will see the industry playing a more significant role in the national and regional economies.

Uranium as a material, and its applications, are often controversial. Yet, nuclear reactors are still being built despite the growth in energy generation through renewable sources and despite highly publicised nuclear accidents. Several countries are pursuing uranium enrichment programmes. Although prices are currently subdued, it is highly likely that there will be continued and sustained demand for uranium for the foreseeable future.

This conference aims to bring together professionals in the uranium industry. A broad range of topics will be discussed, ranging from mining to some of the applications of uranium, and including safety, and post-operations closure and remediation issues. Innovations in the extraction and applications of uranium are constantly being made, and this conference provides a platform for the discussion of advances and for generating new ideas.

It is fitting that the conference takes place in Swakopmund, Namibia. Not only do Namibia and this town have much to offer in scenic beauty, but Swakopmund (apart from being a favourite seaside resort) is also the centre of uranium extraction in the country. Most mines are located in the Namib Desert, within easy driving distance of the conference venue. The oldest uranium mine, Rössing Uranium, celebrated its 40th anniversary last year, having commenced operations in 1976. Post-conference visits to local operations are planned.

The Uranium 2017 Conference will bring together internationally and locally recognized experts, operating personnel, engineering providers, policy makers, R&D establishments, academia, as well as students, to explore how future uranium extraction technologies can:

- Assist in sustainable uranium extraction
- Lower energy costs
- Minimize the impact on the environment
- Play an enhanced role in the medical field

EXHIBITION/SPONSORSHIP
Sponsorship opportunities are available. Companies wishing to sponsor or exhibit should contact the Conference Co-ordinator.

FOR FURTHER INFORMATION OR TO SUBMIT ABSTRACTS, PLEASE CONTACT:
Camielah Jardine • Head of Conferencing • SAIMM • Tel: +27 (0)11 834-1273/7 • E-mail: camielah@saimm.co.za • Website: http://www.saimm.co.za
The following technical visits have been planned:

- **Rössing Uranium** – the longest-running uranium mine in the world and third-largest open-cast mine
- **Langer Heinrich** – was the first new uranium mine in 20 years on opening in 2007 and the lowest-cost open-pit mine in 2015.
- **Bannerman Resources demonstration plant**
- **Viewing the geology of the Alaskite mineralisation in the lower Swakop river. Led by Proff. Judith Kinnaird and Paul Nex (WITS University)**

**TECHNICAL VISITS**

**SHORT COURSES**

Two short courses on Nuclear medicine and radiopharmacy and on design of uranium processing plants will be offered. The courses are accredited for Continuing Professional Development points with the Engineering Council of South Africa.

**KEY DATES**

- **26 May 2017** Submission of papers for peer review
- **11 August 2017** Submission of final camera-ready papers
- **11 September 2017** Short Courses
- **12–13 September 2017** Conference
- **14 & 15 September 2017** Technical Visits

**URANIUM 2017 INTERNATIONAL CONFERENCE**

Extraction and Applications of Uranium — Present and Future

11 September 2017—Short Courses
12–13 September 2017—Conference
14 & 15 September 2017—Technical Visits

Swakopmund Hotel, Swakopmund, Namibia

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**URANIUM 2017 INTERNATIONAL CONFERENCE**

THIS FORM CAN BE E-MAILED to camielah@saimm.co.za

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General
Trends, developments and opportunities in the extraction and recovery of uranium
A. Taylor, ALTA Metallurgical Services, Australia

The impact of depressed uranium prices on the Namibian uranium industry
P. Shava and L. Madziwa, Namibia University of Science and Technology, Namibia

Mineralogy/Geology/Geometallurgy
Remaining uranium resources: where and how much?
M. Fairclough, International Atomic Energy Agency, Austria

Determining uranium mineral compositions through electron probe micro analysis
G. Freemantle and J. Kinnaird, University of the Witwatersrand, South Africa

Geometallurgy of gangue mineral–reagent interaction and implications for uranium heap leaching
R.J. Bowell, SRK, United Kingdom

Geometallurgy of the Manyingee in situ recovery uranium deposit, Western Australia
A. Wilde, University of Western Australia, Australia

Mining
Adjustment options in mine planning to survive low commodity prices - uranium
L. Madziwa, T. Ipinge, J.S. Addai-Mensah, and T. Hollenberg, Namibia University of Science and Technology, Namibia

Ventilation considerations in underground uranium mines
M. Pillalamarry, Namibia University of Science and Technology, Namibia

Implementation of drilling and blasting improvements in calcrete formations at Swakop Uranium Mine
T. Aipanda, Swakop Uranium

Minerals Processing
U-grade™ a technological breakthrough for surficial uranium ores
M.P. Hill, Marenica Energy Ltd, Australia

Innovation technologies that can be applied to uranium processing
C. O’Keefe, CIDRA Minerals Processing, USA

The separation of carbonates from uranium minerals by flotation for the Karoo Sandstone deposits in South Africa
K. Pillay, M. Dlame, and S. Pillay, Mintek, South Africa

Evaluation of polythionate formation during uranium recovery from sulphide flotation concentrate
V. Yahorava and V. Bazhko, Mintek, South Africa

Flotation of gypsum and calcite from Trekkopje uranium ore
C. Magombo, D. Eimann, and A. Handuba, Namibia University of Science and Technology, Namibia

Leaching
Minimizing reagent and utility consumption in uranium agitation and heap leaching operations
G. Miller, Miller Metallurgical Services, Australia

Investigation of the impact of uranium mineralization on alkaline leaching conditions
S. Burling, M. Maley, and R. Ring, ANSTO Minerals, Australia

Uranium alkaline leaching: oxidative leach study of a uraninite-bearing ore
N. Syna and R. Ring, ANSTO Minerals, Australia

Heap leaching of uranium: the good, the bad and the ugly
J. Petersen, University of Cape Town, South Africa

Modelling of uranium leach kinetics
B.L. Sililo and D.R. Groot, Namibia University of Science and Technology, Namibia

Separation/Purification
Influence of radiation on a polypropylene membrane contactor used during membrane-based solvent extraction of uranium from nitric acid solutions
M. Fourie, W.C.M.H. Meyer, D.J. van der Westhuizen, and H.M. Krieg, Necsca, South Africa

Uranium recovery from H2SO4 eluates using strong acid cation resins
J. Bester, S. Corbet, S. Delameilleure, and E. Zaganiaris, Dow Water & Process Solutions, Netherlands, France

Uranium recovery from high chloride arid regions – treated water vs saline water
E.L. Forner, A. Naidoo, S.J. Archer, V.E. Coetzee and K. Goldenhoff, DRA Projects, South Africa and ANSTO Minerals, Australia

Uranium recovery from acid mine drainage generated by gold mines in South Africa
M. Kgaria and V. Yahorava, Mintek, South Africa

Removal of uranium at the low ppm or μ range – a possible solution to decontamination of active or depleted mine site effluents
J. Bester and S. Delameilleure, Dow Water & Process Solutions, Netherlands, France

Recovery of uranium from waste matrices and mine process water using weak-base polyamine functionalized ion-exchange resins
J. Amphlett, R. Foster, C. Sharrad, and M. Ogden, The University of Manchester, Korean Atomic Energy Research Institute, The University of Sheffield, UK, Korea

Uranium purification by ion-exchange resins in batch and column system
K. Skolo, Necsca, South Africa
Effect of impurities on the selective extraction and recovery of uranium from nuclear conversion plant waste
M. Potgieter, J.C. Barry, D.J. van der Westhuizen, and H.M. Krieg, Uranium Chemistry Group, Neasa, Membrane Technology Group, Chemical Resource Beneficiation, North-West University, South Africa

Nano-filtration technology for reagent recovery

Separation of contaminants from uranium by ion exchange and solvent extraction
R.J. Bowell, SRK, United Kingdom

Advances in precipitation
G. Jobling, Adelaide Control Engineering, Australia

Plant Optimization
Applications of dynamic simulation for Husab Uranium Mine
A. Lebedev, J. Duvenhage, and J. Duvenhage, Lebedev Consulting, Swakop Uranium, South Africa, Namibia

Capacity upgrades and leaching circuit modifications at the McClean Lake mill
A. McCombe, Hatch, Canada

Rejuvenating the giant thickeners of yesteryear
A. Krassnokutski, South Africa

Optimization of the Rössing counter-current decantation circuit for high talc ore
C. Anderson, Hatch, South Africa

SOMAIR: Soon 50 years of uranium production in Niger
N. Durupt, Areva Mines, France

Nuclear
Behaviour and fate of uranium in high-level nuclear waste processing system
J. Addai-Mensah and H. Musiyarira, Namibia University of Science and Technology, Namibia

The shift from HEU to LEU for MTRs and the difficulties of U recovery from LEU fuel using wet chemical methods
J.S. Gama, J.C. Barry and P.L. Crouse, Neasa, University of Pretoria, South Africa

Projects
Preferred uranium–gold (U–Au) co-production approach to unlock value and create environmental sustainability of the Louis Moore tailings dump, near Giyani, South Africa
N.K. Singo and J.D. Kramers, University of Johannesburg, South Africa

Flow sheet development of the Karoo Uranium Project
A. Naidoo and S.J. Archer, DRA Projects, South Africa

The impact of phosphates on the Mkuju River Uranium process flowsheet development
J. Scheepers and S.J. Archer, DRA Projects, South Africa

Uranium circuit development for a West African polymetallic deposit
A.J. du Toit, and S.J. Archer, DRA Projects, South Africa

Health Safety
Challenges and opportunities for sustainable rehabilitation of abandoned uranium mines in Namibia
T. Iipinge, L. Madziwa, T. Hollenberg, and J. Addai-Mensah, Namibia University of Science and Technology, Namibia

Radiation exposures at Namibian uranium mines – what are the risks?
G. von Oertzen, Rössing Uranium Limited, Namibia

Advanced monitoring of dust emission at Rössing
B. Schleicher, Rössing Uranium Limited, Namibia

The Namibian Uranium Association, the environment and sustainable development
G. Schneider, Namibian Uranium Institute, Namibia

Radiation-related compliance – a practitioner’s perspective
D. von Oertzen, VO Consulting, Namibia

Water management in Namibian uranium mines
H. Musiyarira, D. Groot, and K. Harding, Namibia University of Science and Technology, Namibia, University of Pretoria, South Africa, University of the Witwatersrand, South Africa

Process water supply to uranium mines in Namibia: problems and solutions
H. Musiyarira, S. Mitropolskaya, and O. Kachepa, Namibia University of Science and Technology, Namibia

Investigation of magnesium potassium phosphate cement for stabilization of uranium wastes
S.M.M. Nelwamondo, W.C.M.H. Meyer, H. Krieg, and J. Markgraaff, Neasa, North West University, South Africa