



Level 3, 1060 Hay St  
West Perth WA 6005

T: +618 9486 1779  
F: +618 9486 1718

PO Box 1811  
West Perth WA 6872

W: [www.globeuranium.com.au](http://www.globeuranium.com.au)  
E: [info@globeuranium.com.au](mailto:info@globeuranium.com.au)

ABN 33 114 400 609

ASX Code: GBE

26 May 2008

ASX/Media Announcement

## Metallurgical Update – Kanyika Project

### Highlights

- Next phase of metallurgical program commenced
- Testwork by Perth-based mineral processing specialists, Nagrom, and supervised by Globe Uranium's consulting metallurgist, John W MacIntyre & Associates
- Separate high grade pyrochlore (Nb-Ta-U) and zircon concentrates to be produced
- Planned FeNb (ferro-niobium) trial production, for market evaluation
- Completion report on first phase leaching testwork due soon from SGS Lakefield, Canada

### Summary

Globe Uranium is pleased to announce that it has embarked on the second phase of metallurgical testwork on material from its 56 million tonne Kanyika Nb-U-Ta-Zr inferred resource in Malawi.

This program is designed to optimise gravity separation and flotation stages, and maximise both recovery rate and grades of the Nb-Ta-U concentrate. Pyrochlore is the dominant ore mineral at Kanyika and contains most of the niobium (Nb), tantalum (Ta) and uranium (U).

Preliminary testwork by SGS Lakefield has already achieved recovery of approximately 72% of the major economic elements to a concentrate, and the Company is confident that this figure will be improved in the current program.

A separate zircon concentrate will also be produced, which is anticipated to provide an additional revenue stream.

Once the process route has been optimised to produce best possible grades and recovery, samples of the resultant pyrochlore concentrate will be sent for pyrometallurgical tests and conversion to ferro-niobium alloy (FeNb).

This current phase of metallurgical testwork will culminate in pilot-scale testing of approximately 100 tonnes of run-of-mine grade material from Kanyika, to demonstrate that the optimised process route can potentially treat ore on a mine-scale throughput. This will result in a significant amount of ferro-niobium alloy product for despatch to potential buyers, mainly steel producers, for market evaluation.

A final report on preliminary leaching testwork carried out by SGS Lakefield, Canada, is expected soon.



For personal use only

## Scoping Study

The Scoping Study being managed by Coffey Mining is well advanced. The Study is addressing mining, metallurgy, marketing, costs, transport and logistics and NPV calculations for the various final product options. It is anticipated that this study will highlight the best and shortest route towards a feasibility study and ultimate production from Kanyika.

The product options being considered as part of the Scoping Study include:

- Ferro-alloys, to be produced via pyrometallurgy; and
- High-purity oxides, to be produced via acid leaching (preliminary testwork carried out by SGS Lakefield)

## About John W. MacIntyre & Associates

John W. MacIntyre & Associates (JMA) have been retained by the Company to manage the metallurgical program. John MacIntyre (FAusIMM) has over 33 years experience as a metallurgist working on a wide range of projects worldwide. The past 27 years have been associated with all aspects of new project development, namely metallurgical evaluations, feasibility studies, technical audits for financial institutions, project commissioning and management, as well as mine management.

## About Nagrom

The testwork is being conducted at the Perth laboratories of Nagrom, who have extensive experience in gravity separation and beneficiation techniques ([www.nagrom.com.au](http://www.nagrom.com.au)). Nagrom have conducted work for many specialty and rare metals projects worldwide, including:

- Galaxy Resources Ltd – Mt Cattlin Spodumene/Tantalite
- Thor Mining Plc – Pilot Plant Molybdenum/Scheelite Ores
- Haddington Resources Ltd – Mineral Sands Garnet Project
- Image Resources Ltd – Mineral Sands
- Vital Metals Ltd – Watershed Scheelite
- Arafura Resources Ltd – Nolans Bore Phosphate/Rare Earths
- Noventa Limited – Mozambique Tantalite Processing
- Talison Minerals Pty Ltd – Wodgina Tantalite Operation
- Talison Minerals Pty Ltd – Greenbushes Tantalite

Pyrochlore, the main ore mineral at Kanyika, has many similar physical properties to Tantalite. The intricacies required in this type of beneficiation are an integral part of the expertise base at Nagrom.

## For further information please contact:

Mark Sumich, Managing Director, Globe Uranium: +61 8 9486 1779

Dean Richardson, Investor Relations Manager, Globe Uranium: +61 8 9486 1779

James Moses, Partner, Fortbridge Consulting: +61 420 991 574

**Competent Persons:** *The contents of this report relating to geology and exploration results are based on information compiled by Dr Julian Stephens, Member of the Australian Institute of Geoscientists and Exploration Manager for Globe Uranium. Dr Stephens has sufficient experience related to the activity being undertaken to qualify as a "Competent Person", as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves and consents to the inclusion in this report of the matters compiled by him in the form and context in which they appear.*

*The contents of this report relating to metallurgy are based on information compiled by John W MacIntyre, Fellow of the Australian Institute of Mining and Metallurgy (FAusIMM) and principal of John W MacIntyre & Associates. Mr MacIntyre has sufficient experience related to the activity being undertaken to qualify as a "Competent Person", as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves and consents to the inclusion in this report of the matters compiled by him in the form and context in which they appear.*