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ASX Code: GBE

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#### ASX/Media Announcement

### Commencement of FeNb Metallurgical Program – Kanyika Niobium Project

#### Highlights

- **Mini-pilot metallurgical program commenced to produce steel-grade ferro-niobium (FeNb)**
- **FeNb samples to be made available to potential off-take customers**
- **Results due Q3 2009**

#### Summary

Globe Metals & Mining is pleased to report that it has commenced a small scale metallurgical pilot program, designed to demonstrate the Company's ability to produce steel-grade FeNb from Kanyika.

The program will treat 6 tonnes of Kanyika run-of-mine grade material, to produce approximately 60kg of a niobium-rich concentrate, and ultimately 5 to 10kg of FeNb. In addition to demonstrating that steel-grade FeNb can be produced from Kanyika, the final product will be made available to potential off-take partners for assessment. Results are due toward the end of September 2009.

A secondary objective of the program will be to assess the viability of economically recovering and producing tantalum and uranium by-products.

Approximately 90% of niobium is consumed by the steel industry, predominantly in high-strength low alloy (HSLA) steel products for major civil engineering and construction projects, oil and gas pipelines and the automobile and shipping industries.

Globe's planned level of niobium production from Kanyika is 3,000tpa (Nb metal content), primarily in the form of steel-grade FeNb. This will represent no more than 3% of global niobium production per annum.

The mini-pilot metallurgical program just commenced is a key component of the Pre-Feasibility Study (PFS) currently underway in relation to the Kanyika Niobium Project. It is also a precursor to a much larger (~500t to 1,000t run-of-mine material) pilot program to be conducted during the Bankable Feasibility Study, to commence after completion of the PFS.

#### Metallurgical Consultants

The mini-pilot metallurgical program is being managed by Globe's metallurgical consultant Mr John McIntyre, of McIntyre & Associates.

Crushing, grinding and gravity separation work is being conducted by Nagrom in Perth, Western Australia.

Flotation work to produce a final concentrate will be conducted by AMMTEC laboratories in Perth and SGS (Lakefield) in Canada. Final concentrate cleanup, acid leach and solvent extraction will also be carried out by SGS (Lakefield).



Smelting work to produce the final FeNb product will be conducted by Keech Furnace Technologies in Johannesburg, South Africa.

### **About Globe Metals & Mining**

Globe Metals & Mining is an African-focused uranium and specialty metals resource company. Its main focus is the multi-commodity (niobium, uranium, tantalum and zircon) Kanyika Niobium Project in central Malawi, which contains a 56Mt inferred JORC resource (@ 2,600ppm Nb<sub>2</sub>O<sub>5</sub>), including a higher grade 14Mt component (@ 3,700ppm Nb<sub>2</sub>O<sub>5</sub>). Niobium is the primary commodity at Kanyika. The inferred resource was announced in March 2008, a Pre-Feasibility Study was commissioned in September 2008 and production is planned to commence in 2011.

Globe has a number of uranium and other projects in Malawi, which it manages from its regional exploration office in Lilongwe, the capital of Malawi. The Company has been listed on the ASX since December 2005 (Code: GBE), and has its corporate head office in Perth, Australia.

### **For further information please contact:**

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**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 Executive Director - Exploration for Globe Metals & Mining. 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.*