



ASX RELEASE

9 July 2019

UNSW-TOPFIBRE Research Programme Summary Update

Chase Mining Corporation Limited (“CML” or “Company”) is pleased to announce that the most recent report from the University of New South Wales (“UNSW”) contains further evidence of proof-in-concept progress in the fibre from Topaz project and other advances made.

Topfibre Pty Ltd which is a wholly owned subsidiary of the Company is the UNSW’s industry partner in the research project.

Attached is a summary of the report as supplied by Professor Charles C Sorrell of these results.

For, and on behalf of, the Board of Directors of Chase Mining Corporation Limited:

Dr Leon Pretorius

Executive Chairman

Chase Mining Corporation Limited

9 July 2019

For any enquiries please contact: Leon Pretorius on 0419 702 616



CHASE MINING CORPORATION LIMITED

ABN 12 118 788 846

Level 8, 46 Edward Street, Brisbane QLD 4000

PO Box 15505, City East QLD 4002

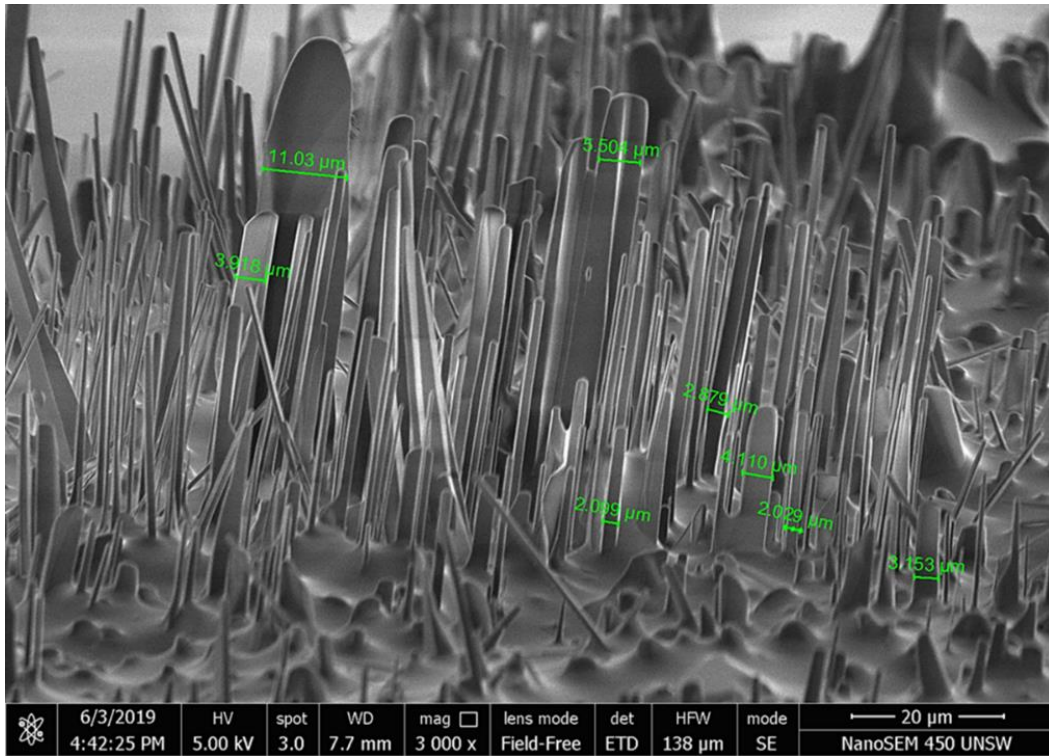
0439 310 818 | 0419 702 616

<https://www.chasemining.com.au>

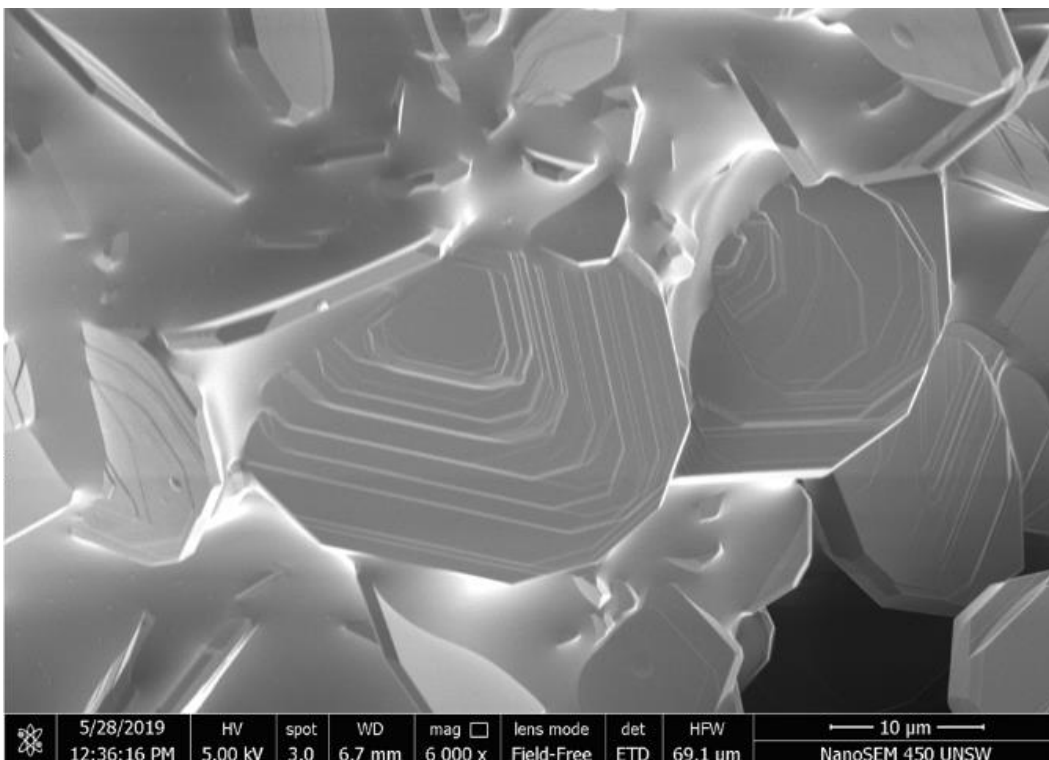


UNSW-TOPFIBRE Research Programme
Update Summary
8 July 2019

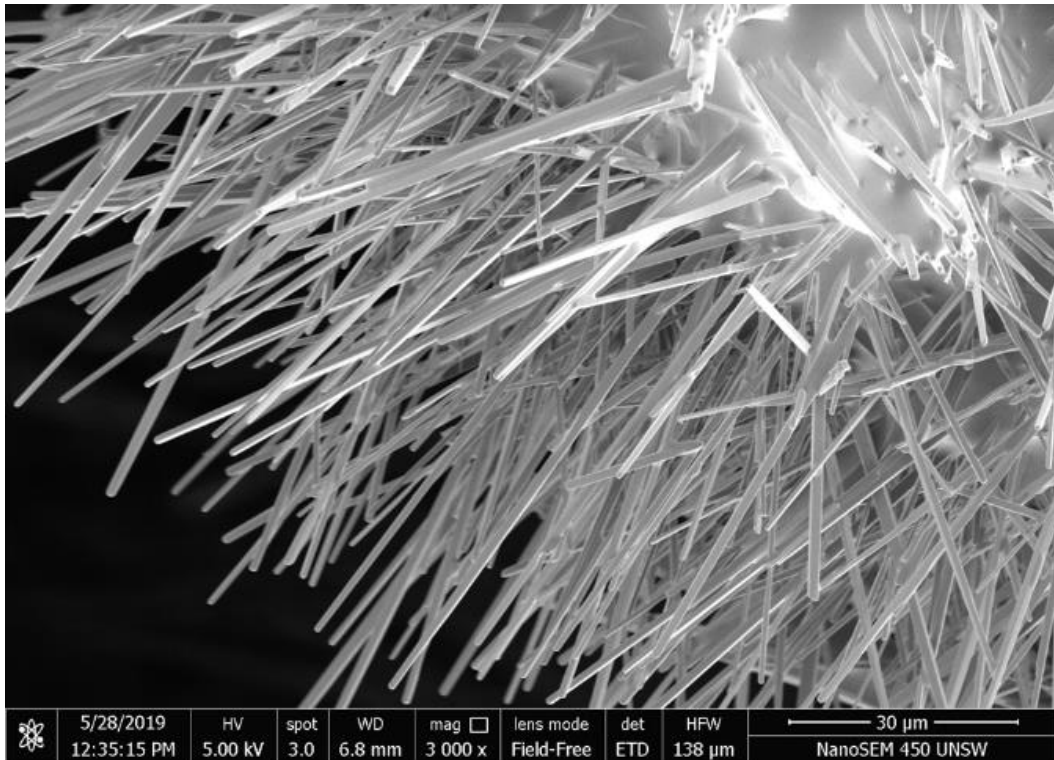
- 1) Proof-of-concept that parallel, separable, and sufficiently thick ($>3 \mu\text{m}$) fibres by growth on templates can be fabricated is demonstrated:



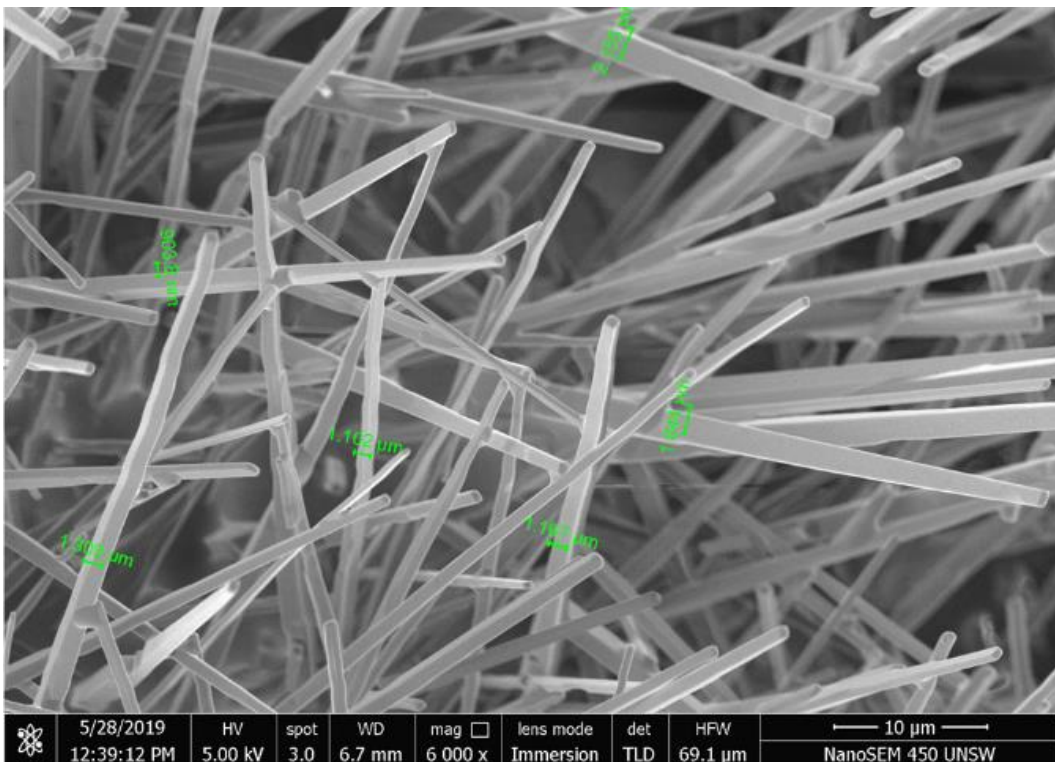
- 2) High-purity stepped templates of high surface areas have been fabricated:



3) Separable mullite fibres have been grown in the absence of a template:



4) These fibres are not of sufficient width ($>3 \mu\text{m}$):



Recommendations for Future Work

Continuing from Progress Summary 11 (ASX 9 April 2019)

- 1) Development of experimental parameters suitable to grow mullite fibres in the desirable proportions for inclusion in ceramic- and metal-matrix composites
- 2) Confirmation of mechanical separability of parallel fibres
- 3) Confirmation of effect of selected additives
- 4) Examination of contradiction between slow heating to generate large fibres and rapid heating to scrub SiO₂ with the use of solid fluorine source

New

- 5) Examine effect of selected additives on the formation of templates
- 6) Examine effect of selected additives on kinetics of mullite fibre growth (aspect ratio, uniform length, and degree of parallel growth)
- 7) Investigation of the nature of the nucleation and possible catalysis
- 8) Focus on experimentation to support patenting

C.C. Sorrell
P. Koshy
S.S. Mofarah
M. Mayyas