

# The 195<sup>th</sup> MANA Special Seminar



## Structure of Nanoscale Precipitates in Light Alloys

Chair: Dr. Yoshio Bando (MANA COO)



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Lightweight metallic alloys such as based on aluminium, magnesium and titanium, are some of the most important engineering materials of our modern societies, and as such they have been the subject of continuing effort to improve their properties. Many aluminium alloys in particular, owe their high mechanical strength to the presence of low-dimensional precipitates. Despite the ubiquity of such nanoscale precipitate phases, their structure has often not been fully elucidated. This talk will present our recent work on determining the bulk and interfacial structure of one of the classic precipitate phases of aluminium alloys by high resolution scanning transmission electron microscopy using conventional and Cs-corrected instruments.

**Venue: Seminar Room #431, MANA Bldg.**

**Date: February 1<sup>st</sup> (Tue) Time: 16:00-16:45**

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