



04 April 2023

The Secretariate
International Asteroid Warning Network (IAWN)
UMD-Department of Astronomy
1113 Physical Sciences Complex, Bldg. 415
College Park, MD 20742, USA

Re: University of New South Wales (UNSW Canberra) Application for Observer IAWN

Dear IAWN Secretariate,

The University of New South Wales Canberra is delighted to apply for observer status at the International Asteroid warning Network (IAWN).

UNSW work began in 2015 with our co-analysis of asteroid 2005 UL5 using the NASA Deep Space DSS43 70m antenna and the CSIRO Parkes Radio 64m Telescope in Australia. It has now progressed to observing and analysing over 30 Apollo and Aten class asteroids, successfully augmenting radar observations with optical telescopes based at UNSW and UWA.

Our work in developing a Southern Hemisphere Asteroid Radar and Optical Program for the detection of asteroids includes partners CSIRO, JPL-NASA, University of Tasmania (UTAS) and University of the Western Australia (UWA). Working closely with CSIRO and JPL, our academic and student staff continue to analyse radar spectral returns, measurements of doppler factors, photometric and astrometric data to enable a more precise understanding of asteroid physical parameters and orbits. We believe this and our unique Australian geographic location, may offer useful contributions to the IAWN.

Our contact point for this request is Professor Ed Kruzins of UNSW Canberra Space, School of Engineering and Information Technology, UNSW Canberra.

Your consideration for our application to the IAWN for an observer membership is appreciated.

Sincerely

Professor Emma Sparks

Rector

University of NSW Canberra,
Northcott Drive, Campbell 2612, Canberra, Australia