

# INVITATION TO SEMINAR

## RMIT launches a \$7 million space research initiative

**Date**

Friday 18 June 2010

**Time**

3.30pm - 4.30pm

**Venue**

RMIT University, City Campus, Access Grid  
Room, Building 8, Level 9, Rm 64-66

**RSVP**

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**About the presentation**

On 26th February 2010, Innovation Minister Senator Kim Carr announced the winning projects in the first round of the Australian Space Research Program (ASRP). This program aims to boost Australian space research strengths and promote new opportunities and new investment in Australian space science and Australian space industry.

A RMIT University team leading a \$7m international space technology consortium has received federal government funding through the ASRP. Professor Kefei Zhang from RMIT's School of Mathematical and Geospatial Sciences, as a key research leader of RMIT Platform Technologies Research Institute, will lead a team of researchers from RMIT University, the Bureau of Meteorology, Curtin University of Technology, the University of NSW, Electro Optic Systems Space System, GPSat Systems Australia Pty Ltd, National Space Organisation Taiwan and NOAA's World Data Centre for Meteorology. The title of the project is "Platform Technologies for Space, Atmosphere and Climate".

The aims of this research are to investigate advanced platform technologies for space-related research, including in-space

tracking and navigation, precise satellite positioning, space weather, atmospheric modelling and climate monitoring. New algorithms and enhanced atmospheric models will be developed in the context of new generation navigation and geo-environmental satellite programs to enhance Australia's capability in space research and meteorological applications. It is anticipated that this will lead to a significant global competitive advantage for Australian companies involved in the use of advanced space technologies for positioning, tracking and environmental monitoring.

Professor Kefei Zhang will present an outline of the ASRP scheme and its background as well as the RMIT space research initiative. This will include the aims and objectives of the project and anticipated outcomes. Key issues related to the research work and challenges confronting Australian space research and space industry will be discussed. Some reflections on the application process of our ASRP success will also be presented. Finally, our view on future possible space research related to GNSS which is a key component of the ever-expanding future earth observation systems will be given.