The 12th Australasian Remote Sensing and Photogrammetry Conference (ARSPC) will be held at the Esplanade Hotel in Fremantle, Western Australia from Monday 18 October to Friday 22 October 2004. ARSPC is Australia's biennial event for practitioners and allied industries.

The theme, *To Measure is to Manage*, will have a major emphasis on **the actual application of *measurements* from remote sensing and photogrammetry to the *management* of exploration and renewable resources.** A range of overseas speakers and national industry leaders will ensure a high profile event.

Current advances including **new hyperspectral sensors, polar orbiting environmental satellite systems and photogrammetric sensors along with the latest techniques for using the spatial information they generate** point to our 2004 Conference as a timely event for the world's leading suppliers and practitioners.

This Conference will draw together experts and users involved with the measurement and management of spatial variability under the theme "To measure is to manage", and has a major focus on geoscience and environmental spectral remote sensing and photogrammetry. Papers are welcome on the following themes:

- ASTER, MODIS and High Spatial Resolution Sensors: Applications and Processing
- Hyperspectral Sensors: Applications and Data Processing
- Existing and New sensors: Applications and Data Processing
- Thermal infrared Applications and Data Processing
- RADAR Applications and Data Processing
- Agricultural, Marine, Rangelands and Bush Fires management applications
- Field/Mine Technologies: Applications and Data Processing
- Laser scanning (airborne and terrestrial)
- High resolution satellite imagery (Ikonos, QuickBird)
- Digital photogrammetry (aerial and terrestrial)
- Mineral and Petroleum Exploration
- Regolith and Soil Mapping
- Geological and Ecological Mapping
- Mine and Petroleum Environments
- Mars and Related Analogues on Earth
- Automatic Monitoring of land surface changes
- Data Integration (Geophysics, Geochemistry, Ecology, DEMs with Spectral Data)
- Operational products and delivery systems.

More than a full program of geoscience and environmental papers/posters is scheduled for the conference, with related workshops planned before and after (see Workshop details elsewhere).

Posters - Garden Room

Geology Photogrammetry

1 **Bayanjargal, O** - Analysis of Landsat TM and Gamma-ray Spectrometry Datasets for VhMS Exploration, Western Australia

2 **Buchanan, A** - Sea Surface Temperature Estimation from ASTER Level 1B at Narrow Neck Point Western Australia

3 **Muraoka, H** - Development of Monitoring Method for Heavy Metal Contamination derived from Acidic Mine Waste Using ASTER Data

4 **Pendock, N** - Rastus: A Low-cost, Effective Software Tool for Processing ASTER Satellite Imagery

5 **Quigley, M** - HyMap Mineral Characterisation of the Geology and Regolith at West Pinnacles, Broken Hill with Application for Mineral Exploration

6 **Shettigara, VK** - A Comparison of the Performances of Atmospheric Correction Software Packages

7 **Turner, GW** - Making the Definition of Peri-urban Less Elusive Using Satellite Remote Sensing

8 **Wu, X** - A Generalised Ortho-Rectification Approach for Satellite Imagery

9 **Szmidel,R** - Mapping Alteration Mineralogy of the Kanowna District, using Airborne Multispectral Scanner Data and Gamma-Ray Spectrometeric Data, Kalgoorlie, Western Australia -Implications for Gold Exploration in the Yilgarn Craton

10 **Tomlison, G** - Terrestrial Photogrammetry - Pit Wall Collapse

11 **Preiss, M** - A Log Likelihood Statistic for Change Detection in Repeat Pass Interferometric

12 **Ge, L** - Ground Displacement from Synthetic Aperture Radar Interferometry: Status and Potential

13 **Jarosz, A and Wanke, D** - Detection and Monitoring of Mining Deformations Using InSAR Technology

14 **Steber, M** - Proactive Delivery of Fire Information to Remote Areas

Fire and Environment

1 **Bridgwood, SD** - Temporal and Spatial Variation of Seagrass Meadows in Safety Bay, Western Australia: A Pilot Study Using GIS

2 **Fegan, M** - Fusing GIS and Image Data to Update Cover Type Mapping

3 **Heath B** - Fire Patterns at a Continental Scale - Australia's Seven Year Fire History from NOAA-AVHRR Satellite

4 **McBain, M** - Long-term Studies of Landscape Change Using Analog and Digital Imagery

5 **Ruffio, RMC** - Profiling the Nature of Contemporary Development in Diverse Urban Environments Using Remotely Sensed Imagery

6 **Pearce, A** - Fires, Floods and Fisheries - 25 years of WASTAC

7 **Walz, Y** - Measuring Burn Severity of Wildland Fires with MODIS in South-Western Forest

8 **Colegate, T** - Monitoring of Wind Erosion Events for Improved Management of Agricultural Land

9 **De Vries, C** - Radiometric Calibration of Multiple Landsat Sensors Based on Pseudo-invariant Targets in Western Queensland, Australia

10 **Lau, IC** - 1:30 000 Regolith-Landform Map of White Dam, Olary Domain, South Australia

11 **Brown, NJ** (presenter C. Bellman) The Correction of Systemmatic Image Errors in an Airborne Linescanner for Fire Monitoring

12 **Earls, C** - Mapping Using Airborne Laser Scanning

13 **Clode,S** - Accurate Building Outlines from ALS Data

Agriculture, HyperSpectral

1 **Kelly, RM** - Use of Airborne Hyperspectral Imagery to Determine the Yield and Quality of Sorghum Crops in N Australia

2 **Turner, GW** - Influencing Factors in the Discrimintation of Summer Crop Type Using Landsat TM Data

3 **London, A** - Using Multispectral Imagery (DMSI) to Detect Phylloxera in Grapevines

4 **Apan, A** - Correlating High Spatial Resolution Aerial Imagery with Wheat Yield and Protein Content

5 **Purnell, D** - Ord Irrigation Area - Crop Distribution

6 **Warren, G** - High Resolution Remote Sensing of Western Austalian Crops: Factors Affecting the Relationships between LAI and Spectral Values

7 **Miyamoto, M** - Mapping Vegetation Response to Fire by Hyperspectral Techniques at the Giraween National Park, Stanthorpe, Queensland

8 **Chevrel, S** - Remote-sensing and GIS in Integrated Risk-based Assessment for Contaminated Lands: Example of the Witwatersrand Goldfield (South Africa)

9 **Wang, LW** - Locational Accuracy of Acres NRT Modis Products

10 **Bennett, B** - Matched Filter Application for Mineral Exploration

11 **Lindell, LT and Philipson, P** - National Classification of Swedish Shoreline Types, from Landsat-7 Data

12 **Yang, X and Thomas, D** - Classification and Mapping of Woody Vegetation from Aerial Photograph: An Automated Image Analysis Approach