

## Positioning and Measurement Stream Nominations for Chair

### 1. Dr Robert Odolinski



Robert teaches Geodesy and least-squares adjustment theory, and conducts research in Regional/Global Navigation Satellite Systems (RNSSs/GNSSs).

In 2006 and 2009, respectively, he obtained his BSc and MSc degree in Geodesy and Geoinformatics (Sweden). He then decided to study for a PhD in multi-GNSS precise positioning at Curtin University (Australia), in 2011 to late 2014. Once his PhD was accepted in January 2015, he joined the School of Surveying as a Lecturer. He was subsequently appointed Senior Lecturer and was awarded a University of Otago Early Career Award for Distinction in Research, all for his performance at the Otago University in the first two and three years, respectively.

His research interests involve deriving mathematical models for the combination of different countries' RNSSs/GNSSs, and investigating the corresponding positioning performance improvement that is achievable when compared to using the systems separately (e.g. GPS-only).

Particular emphasis of his research is on the positioning performance using low-cost receivers in New Zealand, as one of the few countries in the world with a good visibility of almost all RNSSs/GNSSs.

### 2. Dr Chris Pearson



Chris completed a PhD from the University of Otago in 1991 studying of earth deformation on the New Zealand plate boundary. Between 1992 and 2001 he was a Post Doctoral fellow first at LDEO and then Otago where he studied earth deformation on the New Zealand plate. Chris then spent 11 years working at the US National geodetic Survey where he was the Illinois State Geodetic Advisor and responsible for the HTDP program which is the US equivalent to the National Deformation Model.

Chris returned to the University of Otago between 2012 and 2017 as a Lecturer. During this time he was active in the development numerical models of deformation on plate boundary zones and the design of semi-dynamic datums that can be used by countries located in tectonically active areas. As

part of this effort, he spent 3 years developing a new datum for Nepal including a deformation model to correct for the MW 7.8 2015 Gorka earthquakes as an NZAid project. He also collaborated with LINZ to develop an automatic WEB based GPS processing package that is now released as PosisitNZ-PP and the official NZGD2000-ITRF08 datum transformation.

Chris currently serves as advisor to Nepal, Taiwan and the Philippines developing modern SemiDynamic datums. He also is active in working with the Pacific Geomatics and Surveying Council to contribute to capacity building for the geospatial community in South Pacific countries. As part of this, he as a member of the Pacific Advisory Group committee of Survey and Spatial New Zealand where he was instrumental in developing an MOU between NZIS and the PGSC.

Chris has been a board member of the positioning stream since its inception. He has also been chair of the National Technical committee for the last three Survey and Spatial New Zealand conferences.

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### **3. Bruce Robinson**



Since graduating with a Bachelor of Surveying (with credit) from Otago University in 1989 he has been working in the surveying/construction industry. Bruce obtained his registration as a licensed cadastral surveyor in South Africa in the mid-90s and in again in New Zealand in the late 90s.

Initially at Global Survey ( NZ Leica Geosystems agent) he worked in a technical support and project delivery role. His role has developed over the years and he now has 3 main functions.

1. To provide leadership to the technical support, project delivery and geomatic sales teams. The team's roles are to develop and deliver customised hardware and software solutions along with technical support at a high level for precision measurement applications. Successful solutions have been delivered based on an understanding of our clients' business needs.
2. Forming, and managing, strong relationships with both our clients and suppliers. This includes the establishment, and investigation, of relationships with new suppliers - who we believe will deliver solutions that enable Global Survey to be continually seen as a quality innovator and leader in the NZ market.
3. Financial responsibility to the board, and suppliers, to set Budgets for both in income and expenditure and to ensure that these are budgets are managed and targets obtained. Bruce's current internal focus is on the integration of Geomatic hardware, IT, and Communication technology to improve spatial data capture, analysis, and client delivery. This includes the development of Python applications to assist.