



## Report on Third JISDM 2016

The 3<sup>rd</sup> Joint International Symposium on Deformation Monitoring (JISDM) was held at TU Wien (Vienna University of Technology), Austria, from 30 March to 1 April 2016, organised by the Research Group Engineering Geodesy of the Department of Geodesy and Geoinformation, TU Wien. It follows the more than 40 years' tradition of the FIG Symposium series on 'Deformation Measurements' and of the IAG Symposium series on 'Geodesy for Geotechnical and Structural Engineering' – one of the concrete examples of close collaboration between these two geospatial organisations. The symposium is the most important geodetic meeting worldwide dealing with the topics of geodetic monitoring and deformation analysis. During the successful three-day symposium the entire spectrum of deformation studies, technologies and applications was covered. One aim of the symposium was to highlight contributions from different fields of geodesy and geomatics, such as engineering geodesy, spatial geodesy, photogrammetry and remote sensing. Around 150 participants from 25 countries attended the symposium. The programme of oral presentations was structured in two parallel tracks including 82 oral and nine poster presentations. The topics

related to core methodological, technical and practical achievements in the field of deformation monitoring. Highlights of the conference programme included discussion of scientific progress related to the monitoring of terrain, objects and structures, such as ground subsidence, landslides, glacier movements, bridges, tunnels or wind turbines. The latest methodological developments at the theoretical level and sensor and measurement technologies, as well as applications for man-made structures and natural objects and terrain, were presented. Just some examples are areal monitoring techniques, GNSS and fibre-optics for deformation measurements, quality analysis of geodetic networks and time series, and modern approaches to structural and geomonitoring.

The programme also included two sessions dealing with 'Novel Approaches for Absolute Distance Measurements'. The respective talks were given by members of the EURAMET project, 'Metrology for Long Distance Surveying'. The opening keynote speeches dealt with the role of deformation monitoring in current global practice for structural health monitoring and lifecycle management of assets. One was presented by Helmut Wenzel from Vienna Consulting Engineers. The second, on

the use of the Leica GeoMoS monitoring software package, was presented by Michael Rutschmann from Leica Geosystems. Wolfgang Niemeier from TU Braunschweig gave a laudation for Heribert Kahmen from TU Wien highlighting lifetime achievements in the field of engineering geodesy.

For the first time, the authors had the opportunity to submit their papers for peer review, with 23 papers successfully passing the review process. Ten of these reviewed papers have been selected for the first special issue of the *Journal of Applied Geodesy*. In addition, authors were given the possibility to submit revised versions of their papers for a second special issue of the *Journal of Applied Geodesy* as well as for the *Journal of Applied Geomatics*.

As a result of the success of the symposium it was decided to organise the 4<sup>th</sup> JISDM in two years' time. Its location and date will be announced in the near future. ◀

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