

two  
conferences

# IGS News

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## Geotechnical Services

CPT & Piezocone

Dilatometer

Seismic Dilatometer

Vane Shear

Tee-Bar

Piston & Eziprobe Sampling

PPI Piston Sampling

Piezometer Installation

In Situ Permeability



## DMT'15 Conference

### IGS attended the 3rd International Conference on the Flat Dilatometer, had a role and learned much

Allan and Sergey attended, in Rome 14th - 16th June.

Keynote lectures were made by Professors Fernando Schnaid, Michelle Jamiolkowski and Silvano Marchetti. And a dinner presentation was made by Dr John Schmertmann. What a team of experts!!!

Allan made a presentation and chaired a session, and Sergey also attended a training course and field day.

The conference highlighted and reinforced IGS's standing that DMT and SDMT are two of the most useful tools in geotechnical site characterisation, in normal soils, difficult soils (including collapsible soils) and in non-soils such as tailings and ash.

There was considerable discussion of the benefits of combining DMT with CPT, including in liquefaction studies. Peter Robertson presented on aspects of this combined use and mentioned developments with the software CPeT-IT to manage both DMT and CPT data; he used some IGS data during this presentation.

Kyla Nun of Arup UK presented an excellent paper by J Varcoe, K Nation, K Nunn and S Terzaghi on the 3.2km long Kempsey Bridge in NSW, concluding (among other things) that use of Seismic DMT (SDMT) on that project "*proved invaluable*" and provided "*accurate representation of in-situ soils behaviour*". The bottom line was massive cost-savings on the project. IGS undertook all of the in situ testing on that project and worked with Kyla during the site investigation (and much enjoyed seeing her at the conference).



Allan & Sergey looking around

## Tailings and Mine Waste 2015

### IGS attended, exhibited and learned at this conference

Allan and Michael attended *Tailings and Mine Waste Management for the 21st Century*, held in Sydney 27th - 28th July.

IGS was an exhibitor, recognising that tailings dams and ash ponds now constitute a large portion of our business.

Keynote lectures were made by Professors Dirk van Zyl, Andy Fourie, David Boger and David Williams. And an excellent dinner presentation was made by Paul Williams.

There was an open and frank panel discussion (facilitated by Peter Chapman) on the tragic Mount Polley TSF Dyke Breach in Canada, a major recent tailings dam failure. Panel members Dirk Van Zyl, Harvey McLeod, Andy Fourie and David Reid made presentations and led some quite excited discussion.

Major learnings for IGS were: (a) we are well respected in this industry, and (b) tailings dams and other waste ponds are major risk items. They need rigorous characterisation, proper design and construction, and proper management - failures are far too common.



**reducing geotechnical uncertainty**

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