

**COST ACTION Workshop, Newcastle UK, 08 March 2013**

**Minutes of Workgroup 2 meetings**

<b>Morning session:</b>	Actions
<p>JAS reminded members of the WG objectives (also appended below). Members of the working group gave presentations detailing their work, including showing data sets from a number of instrumented sites. A list of participants in the group is provided over the page.</p> <p><b>Afternoon Session:</b></p> <p><b>Potential outputs from the WG</b></p> <p>A planned output from the WG is a catalogue of sets of instrumentation data. It is intended that this will be web-based. In the first instance, it will describe the site and data available and contact details for the person(s) who hold the data. A discussion was held over the size and type of slope failures that fall into the Action. PH advised that any type of slope failure, including large natural landslides, which threaten transport infrastructure should be included.</p> <p>A standard form (template) will be produced to capture information about sites. The nature and form of the website, and who will implement it is currently being discussed.</p> <p>A second planned output from the WG is a journal paper describing the state of the art and future challenges for instrumentation. It was felt that much existing conventional instrumentation had already been described well in outputs from other projects, e.g. SAFELANDS (<a href="http://www.safeland-fp7.eu">www.safeland-fp7.eu</a>), and the focus should be on future challenges and new instrumentation development in response to asset owner's needs.</p> <p>A first draft of a paper plan to be produced for circulation and comment by the WG.</p>	<p></p> <p>JAS, HS</p> <p>JAS, HS</p>
<p><b>Additional members</b></p> <p>The make-up of the WG is mainly academic. It was felt that further representation particularly from asset owners would be helpful, to further define the need for new instrumentation and monitoring systems.</p> <p>The UK Asset Owners Forum Chair could be invited to give a presentation at a future COST meeting.</p> <p>Other ideas for representation in the Action for asset owners were put forward (to be pursued by JAS in consultation with WG members); a wider representation by asset owners is encouraged and any ideas should be forwarded to the WP Chair.</p>	<p>JAS, PH</p> <p>JAS, All</p>
<p><b>Short-term scientific meetings</b></p> <p>Some ideas for STSM's were suggested, although these were not particularly well developed (particularly who might go on the missions).</p> <p>The WG to give further consideration to STSM's and any ideas should be put forward to the WG Chair – note that the COST Chair Paul Hughes has set an initial deadline of mid-April 2013 for initial proposals to be considered by the Management Committee.</p>	<p>All</p>
<p>PH = Paul Hughes; JAS = Joel Smethurst, HS = Haris Saroglou</p>	

## WG2 Objectives

**Aim:** The aim of this task is to bring together researchers, practitioners and asset owners to review the state of the art in slope instrumentation so that recommendations can be made about the equipment, monitoring, decision making and communication strategies that will be required to protect our slope infrastructure into the future.

### Objectives:

1. Evaluation of the strengths and weaknesses of different types of geotechnical and slope monitoring instrumentation to deliver high quality research data relevant to efficient and effective operation
2. Recommendations on decision making and communication strategies [relating to monitoring results]
3. Recommendations on future instrumentation needs for research and practice
4. Web-based catalogue of slope monitoring data

### List of participants in WG2

Participant	Affiliation	Email	Country	Research
Brencic, Mihael	Department of Geology	mihael.brencic@geo.ntf.uni-lj.si	Slovenia	Slope monitoring Landslide hazard Climate change
Dixon, Neil	Loughborough University	N.Dixon@lboro.ac.uk	United kingdom	Monitored slopes Acoustic monitoring
David Gunn	British Geological Survey	dgu@bgs.ac.uk	United Kingdom	Resistivity monitoring Asset management
Hughes, David	Queens University Belfast	d.hughes@qub.ac.uk	United Kingdom	Monitored slopes Embankments on peat Laser scanning
Hughes, Paul	Newcastle University	paul.hughes@ncl.ac.uk	United Kingdom	BIONICS embankment Laser Scanning Wireless systems
Länsivaara, Tim	TUT	tim.lansivaara@tut.fi	Finland	Full scale testing Limit equilibrium Eurocodes
Libric, Lovorka	University of Zagreb	llibric@grad.hr	Croatia	Resistivity measurements
Saroglou, Harry	NTU Athens	saroglou@central.ntua.gr	Greece	Monitored slopes Optical fibres
Smethurst, Joel	University of Southampton	J.A.Smethurst@soton.ac.uk	United Kingdom	Monitored slopes Instrument development
Springman, Sarah	ETH Zurich	sarah.springman@igt.baug.ethz.ch	Switzerland	Monitored sites Full-scale testing
Wooff, Chris	Network Rail	Chris.Wooff@networkrail.co.uk	United Kingdom	Large number of monitored sites Site repair Alarm levels