

UNIVERSITY OF ST. ANDREWS: 11th - 13th June 2014

11 June:		CONFERENCE DAY 1 (Field Trips and Arrival)							
<b>12.00</b> to	17.00	Exhibitors set up							
<b>14.00</b> to	18.30	Registration and key collection (Agnes Blackadder Hall - formerly 'New Hall')							
<b>19.00</b> to	20.30	Icebreaker Reception (Museum of the University of St. Andrews (MUSA))							
	20.30	Icebreaker close: Dinner venues available in St. Andrews (see Map and EIG website for list of restaurants)							
	21.00	Doors close	e on Icebreaker venue						
12 June:		CONFEREN	ICE DAY 2 - Morning						
07.30		Breakfast							
<b>07.00</b> to	08.00	Exhibitors	set up						
<b>08.00</b> to	09.00	Registration and key collection (Foyer near entrance to Medical & Biological Science (MBS) Building (adjacent to main auditorium))							
<b>08.15</b> to	08.45	Presenters briefing and presentation check							
		MAIN (MBS	S) AUDITORIUM						
9.00		Welcome and Introduction: Clive Mitchell, 2014 Conference Chairman							
	9.05	Opening Address:							
		Adrian Finch, University of St. Andrews							
	9.15	The EIG 20	014 Keynote 'Ansel Dunham' Lecture						
		Title:	Plus ça Change						
		Presenter	Duncan Wardrop						
	9.55		Various Highlights						
		Chair: Tom Newman							
	9.55	Title An Overview of the Geology and Mineral Resources of Scotland							
		Presenter Ruth Robinson & Graham Smith							
10.15		Title Back to the Future: Coal mining using an adapted room and pillar method							
		Presenter Toby White							
<b>10.35</b> to	11.25	Tea/coffee	- In MBS Exhibition Area - with opportunity to view trade stands and post	ters	5				
		MAIN (MBS	S) AUDITORIUM		PHYSICS LEC	CTURE THEATRE B			
11.30		Session 2 : Mineral Resources and Exploration			Session 3 : Fracking & Frac Sands				
		Chair:	Colin Comberbach		Chair:	Ann Hagni			
	11.30	Title	Mineral Resource and Reserve Classification—Looking Backward and Forward 11.30		Title	Groundwater and Shale Gas - An Overview			
		Presenter	David Abbott		Presenter	Rachel Bell			
	11.50	<b>Title</b> Presenter	The Responsible Reporting of Mineral Assets       11.50         Eddie Bailey       11.50		<b>Title</b> Presenter	Hydrogeological risk screening for unconventional oil and gas development Barnaby Harding			
	12.10	Title	,		Title	UK Frac Sand Resources			
		Presenter	Scott Abraham & Jeremy Elvins		Presenter	Clive Mitchell			
	12.30	Title	Thinking Big- Defining Resources for Major Coastal Defence Projects         12.30	0	Title	Understanding Shale Gas Plays through the use of Inorganic Geochemistry			
		Presenter	Tom Bide		Presenter	Alex Finlay & John Martin			
10 50 4-	13.55	Lunch	- In MBS Exhibition Area - with opportunity to view trade stands and poster	rs		See Programme Sheet 2 for afternoon sessions			



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12th June:		CONFERENCE DAY 2 - (continued)								
<b>12.50</b> to	12.50 to 13.55		Lunch       -       In MBS Exhibition Area with opportunity to view trade stands and posters							
		MAIN (MBS) AUDITORIUM			PHYSICS I	PHYSICS LECTURE THEATRE B				
14.00		Session 2 (continued) and Session 4 (Geotechnics and Ground Control)				Session 5 (Industrial Minerals)				
		Chair:	Geoff Walton		Chair:	Peter Scott				
	14.00	Title	Geoelectrical Imaging for Natural Ornamental Stone Exploration	14.00	Title	The Role of Carbonatite Deposits in the Industrial Minerals Industry				
		Presenter	Jon Chambers et al		Presenter	Prof. Richard Hagni				
	14.20	Title	Modelling and Assessing the Uncertainty of Mineral Resources in Three Dimensions	14.20	Title	A bit about Andalusite and the Bushfeld Complex				
		Presenter	Ben Marchant, Katy Mee & Jo Mankelow		Presenter	David Crouse				
	14.40	Title	Application of Pre-Split Blasting to Final Faces in Hard Rock Quarries	14.40	Title	Mineral and Chemical Characteristics of High-Whiteness Calcite Marbles, Northern				
		Presenter	Sophie Cook & Brian Duthie		Presenter	Norway Agnes Raaness & Are Korneliussen				
	15.00	Title	Milwr Tunnel – the Investigation and Remediation of a Major Mine Drainage Adit	15.00	Title	Petrological and Chemical Characterisation of High-Purity Quartz Deposits with				
						Examples from Norway				
		Presenter	Martin Downing		Presenter	Axel Mûller, J.E. Wanvik and P.M. Ihlen				
<b>15.20</b> to	5 <b>16.00</b>	Tea/coffee - In MBS Exhibition Area - with opportunity to view trade stands and posters								
16.05		Session 4 (	(Continued)		Session 5 (continued) and Session 6 : Applied Mineralogy					
		Chair:	Craig Arditto		Chair:	Clive Mitchell				
	16.05	Title	Ground Control Instrumentation for the Extraction Industry	16.05	Title	Titanium Deposits in Norway				
		Presenter	Keith MacAndrew, L Sneath, & J Toplis		Presenter	Are Korneliussen				
	16.25	Title	Use of LiDAR and Unmanned Aerial Vehicles (UAVs) for remote geological surveying	16.25	Title	Crushed Rock Aggregates: their Mineralogy and Textures using Automated Scanning Electron Microscopy (QEMSCAN®)				
		Presenter	Adrian Charters		Presenter	Peter Scott & Gavyn Rollinson				
	16.45	Title	Geotechnical Challenges in Quarry Development in Steep-Sided Mogote Hills	16.45	Title	Particle Shape Evaluation: a New Objective Approach using Dynamic Image Analysis applied to the Frac Sand Industry				
		Presenter	David Jameson & Mark Pritchard		Presenter	Koen Vos et al.				
	17.05	Title	Rockfall Protection to Dudley Ward Tunnel, Northern Approach, Gibraltar	17.05	Title	Investigation to Understand the Geological Factors Controlling Iron Oxide Distribution in Grange Mill, Limestone Quarry, Derbyshire				
		Presenter	Stewart Lightbody		Presenter	Andrew Smith				
<b>17.30</b> to	o 17.50	EIG Annual General Meeting - all invited								
<b>18.45</b> to	5 <b>19.45</b>	5 Pre-Dinner Drinks Reception (Lower College Hall)								
<b>20.00</b> to	5 <b>11.30</b>	• EIG Conference Dinner (Lower College Hall - followed by pay bar and Ceilidh until midnight in Upper College Hall i.e. the floor above )								



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3th June:		CONFEREN	CE DAY 3							
07.30 to 09.	.00	Breakfast								
08.00 to 09.	.00	Registratio	n (Foyer near entrance to Medical & Biological Science (MBS) Building (adjacent to ma	ain audit	orium) <b>)</b>					
		MAIN (MBS	5) AUDITORIUM							
9.00		Session 7 : More highlights								
		Chair:								
9.0	00	Title	The Tellus Projects of UK and Ireland – a Stimulus for New Exploration and Sustaina	able Use	e of Natural	Capital Assets				
		Presenter	Andy Howard, M. Young & M. Cowan							
9.3	30		The Minerals Sector contribution to Stabilisation and Development in Afghanistan	Intribution to Stabilisation and Development in Afghanistan						
0.5	-0		Drew Craig							
9.5	9.50 Title Indiana Limestone - The Gold (well, buff) Standard of U.S. Dimension Stone Presenter Nelson Schaffer									
10.	.10	Title	Palaeo-landscapes and Early Human Activity (c. 200-300 ka BP) in the Southern North Sea: a Case Study in Best Practice as Evidenced in Marine Aggregate Dredging in the Anglian Block							
		Presenter Nigel Griffiths								
10.	.30		The Role and Benefits of Quarries in Alleviating Flooding – Planning Opportunities and Technical Issues							
			Clive Carpenter							
10.50 to 11.	.30	Tea/coffee		ters						
			5) AUDITORIUM			LECTURE THEATRE B				
11.35		Session 8 :	Quarrying and the Water Environment		Session 9	: Building Stone				
		Chair:	Lee Clarke		Chair:	Graham Smith				
11.	.35	Title	The Potential Applications and Benefits of Digital Data Collection in Quarries	11.35	Title	How do we Re-invigorate the UK Dimension Stone Industry? An Example from the Orkney Islands				
		Presenter	Chris Leake		Presenter	Martin Gillespie				
11.	.55	Title	Design of Schemes of Water Monitoring to Save Money and Regulatory Time	11.55	Title	Designing for Underground Extraction: a Dimension Stone Room-and-Pillar Mine				
		Presenter	James Dodds		Presenter	Naomi Lee				
12.	.15	Title	The Use of Modern Data Management Systems in the CEMEX UK Aggregate Business	12.15	Title	Salt Weathering of the Waddington Fell Sandstone by Sodium Sulphate - Forcefu Growth of Crystal Fibres				
10	.35	Presenter Title	Kevin Wilson Analysis of Aquifer Pumping Tests within Glacial Sand and Gravel using Function.xls	12.25	Presenter	Kieran Blacker				
12.	.55			12.35	Title	Playing With Aggregates				
		Presenter	Campbell Ogilvie		Presenter	Bobbie Millar				
12.55 to 14.	.00	Lunch - In MBS Exhibition Area - with opportunity to view trade stands and posters								
14.05		Session 10	: World Case Studies		Session 11	1 : Planning and Environment				
		Chair:	Adrian Charters		Chair:	Duncan Wardrop				
14.	.05	Title	From Empire to Enterprise: 100 years of history through mineral extraction	14.05	Title	Strategic Planning for Future Aggregates Provision in Wales				
		Duranantan	statistics		Duccastan					
1.4	.30		Teresa Brown	14.20	Presenter	Alan Thompson				
14.	.30		Logistics and the Economics of Iron Ore Mining in West Africa	14.30	Title	The Use of Multi-Criteria Analysis in Evaluating Quarry Closure Options				
1 /	55		Stephen Hobbs	14.55	Presenter <b>Title</b>	Richard Lansley & Gareth Digges La Touche True Community Engagement: A new model for mineral development				
14.	.55		Mineral Policy (or lack of) issues in the European Union	14.00		Bill Birch				
1 5	20	Presenter Title	Gunter Tiess & John Cowley Advantaged by Location	15.20	Presenter <b>Title</b>	Bill Birch Planning for Sustainable Aggregate Production in Illinois, USA				
15.	.20		David Boyd	13.20	Presenter	Zak Lasemi; John Henriksen; Matthew Hansel; and Mark Krumenacher,				
					i i cocilici					
			S) AUDITORIUM							
15.50		Summing u	•							
			Clive Mitchell, EIG 2014 Chairman							
			ee available - In MBS Exhibition Area							
		) Trade stands cleared and venue closed.								
4 June:	0.0		CE DAY 4 (Field Trips)							
07.30 to 09.	.00	Breakfast								
09.00		Field Trips	: see your field trip itinerary for timings							