DAY 1 -SUNDAY SEPTEMBER 28, 2014

9 9 Water status and	START	RINISH	SESSION 1 (PLEMARY)			
 Lucu Lucu Lucu Lucu Lucu Lucu Lucu Lucu	0815	0830	Welcome and introduction (Kart Suchamel)			
10 81 Natural Science Sci						
 4 discussion discuss	0630	0900	Robert Hazen - Metallogenesis, the supercontinent cycle, and mineral-forming processes through Earth history			
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No. No. No. No. No. No. 100 100 The Start Part Part Part Part Part Part Part	0930	1000	Massimo Chiaradia - Timescales of mineral systems - what have we learnt in the last decade?			
Issue law into Issue law into Issue law into 0	1000	1030	MORNING TEA			
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 International Control Contrel Control Control Control Control Control Control Control Con			Session Chair: Judith Kinnaind			Session Chair: Francois Robert
 International Constraints of the Constraint of the Co	1030	1050	Obon-Hoal - One formation drives one estimation: Economic decision is the foundation for decret	1030	1050	Brinnial - Syntectoric formation of oper control we coper and intrusion-related one deposits in Timar belta by decompression fluid assumption of requirity spaced depicing before assembling tags within the anticipat hinge of the frontial confideran loid and front belt
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 In Province Instrumentation of Province Instr	12:00	1230	Micketweite - Duration And Dynamics Of Orogenic-Type Gold Deposits	12:10	1230	Lesi-Mejis - Janasic gold metallogeny in the Colombian Andes
iers iers iers iers iers iers iers iers	1230	1330	LUNCH			
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 Image: State Stat	1230	1400	Richard Hillis-Colled tubine drilline, loanine-while-drilline, and too-of-hole sampline, breakthrough mineral exploration technology for the 21st century?			
 ATRANCATA ATRANCATA			Doug Bryman- Muon Tomography: Rringing New physics to ore-body imaging			
 International Constructions Constructing Constructions Constructions Constructions Constructions Cons	1430	1500	Mark Jesseli-The next generation of 2D geological modeling and invension			
territo Parte Bando Marcine Section De La Construcción de la ConstruCión de la Construcción de la Construcci	1500	1530	AFTERNOON TEA			
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	1710	17.80	(Ansumase - Geochemical Astrason Fooprie of the Lakey Uniter Sumos and Surceas Lepter, talitah Columbia			

DAY 2 -MONDAY SEPTEMBER 29, 2014

START	FINISH

SESSION 7 (PLENARY): THEME 3 - MINERAL SYSTEM SCIENCE

Session Chair: Perry Eaton

0830 0900 0930	0900 0930 1000	Can McGuing, The Moreal System Concerd: Key to accessful undercover targeting John Munitian - The Carlin gold system: Applications to evaluation in Networks and Otherwhere Hondrey Format - A part Mercarchine accussit gold enrichment event: possible classs and consequences for exploration			
1000	1030	MORNING TEA			
		SESSION 8: THEME 3 - MINERAL SYSTEM SCIENCE Session Chair: Rich Goldfarb			SESSIO
1030 1050 1110 1130 1150 1210	1050 1110 1130 1150 1210 1230	Forher - Treatmic anti-facture of a 1.40-1.87 Ga IOCS meanitaines in Australia Hagmanna - Ongonic gold systems in the Australia Geodesi of Such America Motessam - Odd metallogany of northweatem Barlis - Signimipound organic and intrusion-related mineratization in an exolving Variacan Orogen Bleaker - The Albho Barlis Exprovingence instraliantia Barlis Albho Albho Matta Barlis Albho Albh	1030 1100 1120 1140 1200	1100 1120 1140 1200 1220	Paul Ag Turner Barker Myers - Holden
1150	1330	SESSION 10 (PERNAM): THEME 2 - OXPOSIT FOOTPRINTS Session Chair: Marray Hitaman			
1330 1400 1430	1400 1430 1500	David Coale- Ostal Rotexins of coordways sostems - Mellings the outer limits of the genomenical labit using exolution in ineral chemistry Rev Askard - Celecohemical indication frame integration transported to the regional devices based understanding Ken Witherly - Deposit footprints: Moving off the path to see the way forward			
1500	1600	SEG AWARDS (REMARY) SESSION 11: DEDICATED DHHBITS AND POSTER SESSION AFTERNOON TEA (SERVED CONCUBRENT WITH DEDICATED EXHBITS AND POSTER SESSIOI Session Chair: Thomas Monecke	N)		
1600	1730	DEDICATED EXHIBITS A	ND PO	STER SES	SION

17.30 - 18.30: EVENING RECEPTION - DRINKS IN EXHIBIT HALL

SESSION 9: THEME 4 - INNOVATIONS IN EXPLORATION TECHNOLOGY Session Chair: Amanda Butt (Rio Tinto)

folden - Improved Interface Designs for Automated Analysis of Potential Field Data

Paul Agnew – Micro-analytical Innovation for Diamonds Exploration and Beyond

19.00: INDUSTRY OUTLOOK DINNER (GUEST SPEAKER - ROBERT FRIEDLAND)

DAY 3 -TUESDAY SEPTEMBER 30, 2014

START FINISH

SESSION 12 (PLENARY): THEME 5 - EXPLORATION MANAGEMENT AND TARGETING

Session Chair: Tracey Kerr (AnaloAmerican)

0830 0900 0930	0900 0930 1000	Randal Oliphant - What does the global exploration industry need to deliver in the 21st Century? - A shareholder's perspective Richard Shadde - The Global Shift to Undercover Extension - New East' How effective? Jahon Sylae - What the Capper mine of the Mark Nok Jah?		
1000	1030	MORNING TEA		
		SESSION 11: THEME 5 - EXPLORATION MANAGEMENT AND TARGETING Session Chair: Rob Incomarov (Barrick)		
1030 1100 1120 1140 1200	1100 1120 1140 1200 1220	Sen thi Yang, "The bankes of fogloarden in Chao (1950 callspaced lasters) Senset: The first of callspace (Chao et al. In Sta Singley Michael Callspace) Bankes: The partial callspace (Chao et al. In Sta Singley Michael Senset Bankes: The senset is an index of the optimum of the senset senset Bankes: An investitation from index-extension as packdor available independent capper potential: an example from the Fare-Subict Region (Parad) Bankes: An investitation from index-extension as packdor available independent capper potential: an example from the Fare-Subict Region (Parad) Bankes: An investitation in call and examples and additional independent capper potential: an example from the Fare-Subict Region (Parad) Bankes: An investitation index-extension as packdor available in tight per Esperimentation in the Cable district. (Bith Assaulti WCH)	1030 1050 1110 1130 1150 1210	1050 1110 1130 1150 1210 1230
		SESSION 35: THEME 6 - CARE STUDIES OF 253T CENTURE EXPLORATION SUCCESS Section Chair: Unite Christie (PCM)		
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1530	1600	ATTENDON ITA SSSSON TY DENANDY, THEM 4 - CASE STUDIES OF 21ST CENTURY EXPLORATION SUCCESS Secular Chair Bruce Genimal		
1600 1630 1700	1630 1700 1730	Galilan Bown - Anglokenska september: kay jegedinisti ta a disabit of hotasa Balila Bown - Tali Yaka yang pendinaki Kid Galilan - Jaka - Jaka - Jaka Bown - Tali Yaka yang pendinaki Kid Galilan - Jaka wasana Datari fara jeniti waptem Marka Bown - Tali Yaka yang pendinaki Kid Galilan - Jaka wasana Datari fara jeniti waptem		

1 Presentation by co-author Jon Hronsky 2 Presentation by co-author Rolf Jonsson 3 Presentation by co-author David Huston

SESSION 14: THEME 3 - MINERAL SYSTEMS SCIENCE

Session Chair: John Everest (KGHM)

3	Skirrow - Mineral systems and area selection: Application to IOCG, N and other mineral systems in Australia
1	Beresford - The chonolith N-Cu model: expanding the footprint of N-Cu deposits and chasing weaknesses in the Nokel mineral system model
	Yang - Mesoprotercecic carbonatilic magmatism in the Bayan Obo deposit, Inner Mongolia, North China: Constraints for the mechanism of super accumulation of rare earth elements
	Stack - Mesoproterozoic iron colde-apatite and iron oxide-copper-gold-rare earth element deposits of southeast Missouri, USA: Geology, geophysics, and exploration potential
	Marks - Controls on the formation of a large Zn-Pb Irish-type deposit: evidence from the Navan halo
	Saintilan - Proterozoic basement structures and thermogenic sullate reduction-derived H2S as key controls on economic Laisvall-type Pb-Zn deposits, eastern erosional front of the Scandinavian Caledonides, Sweden

SESSION 16: THEME 1 - FUNDAMENTAL ADVANCES IN ECONOMIC GEOLOGY

Session Chair: Mary L. Little (Mirasol Resources Ltd.)

	1330 1400	Clinton Scott - The role of geobiology and metallogenesis through Earth's history, with emphasis on sediment-hosted deposits
ait, Escondida Cluster District, Northern Chile	1400 1420	Laurila - Sources of Reduced Sultur, Early Diagenesis, and Fine Laminae in the Currently Forming Metailliferous Sediment of the Brine-Covered Atlantis II Deep, Red Sea
it, Timok Magmatic Complex, Serbia	1420 1440	Simon - Iron and oxygen isotope and element systematics of magnetite from the Los Colorados IOA deposit, Chile: A paradigm shift for IOA deposits?
hind the discoveries that turned mine closure into a large expansion project	1440 1500	Diamond - Volcarostratigraphic controls on the occurrence of massive sulfide (VMS) deposits in the Semail ophiolite, Oman
	1500 1520	Santapuida - Metal Mobility and Hydrothermal Alteration within the Kevitsa N-Qu-PGE deposit. Lapland Finland

List of all Talks apart from previously Invited

Theme 1: Fundamental Advances	0393-000121	Ore formation drives ore extraction: Economic geology is the foundation for geomet	Karin	Olson Hoal	USA	khoal@mines.edu
Theme 1: Fundamental Advances	0393-000245	Textural and isotopic evidence for metallic nanoparticles in bonanza epithermal ores	James	Saunders	USA	saundja@auburn.edu
Theme 1: Fundamental Advances	0393-000273	Mafic magma contributions to arc-related porphyry ore deposits	Adrian	Fiege	USA	afiege@umich.edu
Theme 1: Fundamental Advances	0393-000305	Widespread exxinic conditions are not a prerequisite for sedimentary exhalative mineralization in the Selvyn Basin, Canada	Joseph	Magnall		magnall@ualberta.ca
Theme 1: Fundamental Advances	0393-000130	Pulsed intrusive events, magma mixing, and mineralization of the Don Manuel porphyry copper system, central Chile	Amy	Gilmer	United Kin	amy.gilmer@bristol.ac.uk
Theme 1: Fundamental Advances	0393-000141	Sources of Reduced Sulfur, Early Diagenesis, and Fine Laminae in the Currently Forming Metalliferous Sediment of the Brine-Covered Atlantis II Deep, Red Sea	Tea	Laurila	Canada	laurilatea@gmail.com
Theme 1: Fundamental Advances	0393-000236	Contemporaneous alkaline lamproites and carbonatites in the Kalmakyr and Muruntau ore districts, Tienshan, Uzbekistan: Mantle contribution for the formation of giant ore deposits	Reimar	Seltmann	United Kin	R.Seltmann@nhm.ac.uk
Theme 1: Fundamental Advances	0393-000255	Investigation of the Quartz-Gold Interface Utilizing Electron Microscopy	Michelle	Burke	USA	burkeml2@miamioh.edu
Theme 1: Fundamental Advances	0393-000112	Ore Metal Extraction During Magma Crystallization: A Dynamic Experimental Approach	Brian	Tattitch	United Kin	Brian.Tattitch@bristol.ac.uk
Theme 1: Fundamental Advances	0393-000111	Volcanostratigraphic controls on the occurrence of massive sulfide (VMS) deposits in the Semail ophiolite, Oman	Larryn	Diamond	Switzerlan	(diamond@geo.unibe.ch
Theme 1: Fundamental Advances	0393-000270	Duration And Dynamics Of Orogenic-Type Gold Deposits	Steven	Micklethwaite	Australia	steven.micklethwaite@uwa.edu.au
Theme 1: Fundamental Advances	0393-000186	Metal Mobility and Hydrothermal Alteration within the Kevitsa Ni-Cu-PGE deposit, Lapland Finland	Frank	Santaguida	Canada	Frank.Santaguida@fgml.com
Theme 1: Fundamental Advances	0393-000214	Simon - Iron and oxygen isotope and element systematics of magnetite from the Los Colorados IOA deposit, Chile: A paradigm shift for IOA deposits?	Adam	Simon	USA	simonac@umich.edu
Theme 1: Fundamental Advances	0393-000099	Generation of porphyry copper deposits by gas-brine reaction in volcanic arcs	Jon	Blundy	United Kin	jon.blundy@bris.ac.uk
Theme 2: Deposit Footprints	0393-000075	Using Multi-Element Geochemistry to Map Multiple Components of a Mineral System. Case study from a sediment hosted Cu-Ni camp, NW Province, Zambia	David	Wood	Chile	David.Wood@fgml.com
Theme 2: Deposit Footprints	0393-000089	Chorte chemistry as an exploration tool in the propylitic halo of porphyry-epithermal systems: A case study of the Batu Hijau porphyry Cu-Au system, Indonesia	Jamie	Wilkinson	Australia	j.wilkinson@nhm.ac.uk
Theme 2: Deposit Footprints	0393-000301		David	Braxton	Chile	dave.braxton@angloamerican.com
Theme 2: Deposit Footprints	0393-000264	Contrasting footprints and characteristics of IOCG-type and porphryry-type hydrothermal systems related to episodic Mesozoic arc magmatism in coastal northern Chile	Mark	Barton	USA	mdbarton@email.arizona.edu
Theme 2: Deposit Footprints	0393-000098	Structural, mineralogical, geochemical and petrophysical characterization of matic dykes: a key to define the Canadian Malaric gold deposit footprint	Stéphane		Canada	sperrout@uwo.ca
Theme 2: Deposit Footprints	0393-000321	Geochemical Alteration Footprint of the Eskir (Free Suffice and Sufficient Original Su	Tom	Meuzelaar	USA	Tom_Meuzelaar@golder.com
meme 2. Deposit rootprints	0333-000321		TOIL	meuzeidai	034	Torn_meuzelaal@goldel.com
Theme 3: Mineral Systems	0393-000020	Syntectonic formation of giant porphyry copper and intrusion-related ore deposits in linear belts by decompression fluid saturation of regularly spaced diaptric plutons ascending fault ramps within the anticlinal hinge of the frontal conditieran fold and thrust belt	George	Brimhall Jr.	USA	brimhall@berkeley.edu
Theme 3: Mineral Systems	0393-000020	Office one contrastor to gain poping of copies and interaction and and anotation interaction and anotation of equival parts of copies and and anotation and anotation of equival parts of copies and and anotation of equival parts of copies and and anotation of equival parts of copies and and anotation of equival parts of equivalence of the copies and and anotation of equivalence of equivalence of the copies and and anotation of equivalence	Thomas	Bissig		tbissig@eos.ubc.ca
Theme 3: Mineral Systems	0393-000109	The project and records areing to colored ingressing and equivalent opposed and matchined is to an initial interest or mane attrapping and equivalent agreent structures and hemogenic sulfate reduction-derived H2S as key controls on economic Laisvall-type Pa2: deposits action agreent structures and hemogenic sulfate reduction-derived H2S as key controls on economic Laisvall-type Pa2: deposits action agreent structures and hemogenic sulfate reduction-derived H2S as key controls on economic Laisvall-type Pa2: deposits action agreent structures and hemogenic sulfate reduction-derived H2S as key controls on economic Laisvall-type Pa2: deposits action agreent structures and hemogenic substructures a	Nicolas	Saintilan		c nicolas.saintilan@unige.ch
Theme 3: Mineral Systems	0393-000109	Protectodo desenieris audores and meringenic sunaer reductorienteven 122 as xely compos on excitance datarrange model The chandith N-Cu model: espanding the footprint of N-Cu deposits and changing weaknesses in the N-circle model The chandith N-Cu model: espanding the footprint of N-Cu deposits and changing weaknesses in the N-circle model	Steve	Beresford		Steve.Beresford@fgml.com
Theme 3: Mineral Systems	0393-000124	The chrominine water and the second	Roger	Skirrow		roger.skirrow@ga.gov.au
Theme 3: Mineral Systems				Sparks		
Theme 3: Mineral Systems	0393-000151		Stephen Wouter	Bleeker	Canada	Steve.Sparks@bristol.ac.uk
Theme 3: Mineral Systems	0393-000306	The Ability breaks: syn-progenic extensional faults inverted as thick-skinned thrusts				wbleeker@nrcan.gc.ca
	0393-000037	Structural controls on the emplacement of porphyry systems: the case of the Rio Blanco-Los Bronces cluster, Andes of Central Chile	Jose	Piquer	Australia	
Theme 3: Mineral Systems	0393-000053	Mesoproterozoic carbonatitic magmatism in the Bayan Obo deposit, Inner Mongolia, North China: Constraints for the mechanism of super accumulation of rare earth elements		Yang	China	yangkuifeng@mail.iggcas.ac.cn
Theme 3: Mineral Systems	0393-000219	Jurassic gold metallogeny in the Colombian Andes		d Leal-Mejía	Canada	hlealmej@eos.ubc.ca
Theme 3: Mineral Systems	0393-000297	Controls on the formation of a large Zn-Pb lrish-type deposit: evidence from the Navan halo	Freya	Marks	Ireland	fmarks21@gmail.com
Theme 3: Mineral Systems	0393-000160	Multiple Sulfur Isotope Geochemistry of Au-rich systems of the southern Abitibi subprovince, Québec, Canada	Elizabeth		Canada	libbysh@gmail.com
Theme 3: Mineral Systems	0393-000225	Porphyry copper deposits in China: Spatial – temporal distribution and their tectonic settings		Mao	China	jingwenmao@263.net
Theme 3: Mineral Systems	0393-000240	Gold metallogeny of northwestern Iberia: Superimposed orogenic and intrusion-related mineralization in an evolving Variscan Orogen	James	Mortensen	Canada	jmortensen@eos.ubc.ca
Theme 3: Mineral Systems	0393-000153	Orogenic gold systems in the Andes of South America		(Hagemann	Australia	steffen.hagemann@uwa.edu.au
Theme 3: Mineral Systems	0393-000189	Mesoproterozoic iron oxide-apatite and iron oxide-copper-gold-rare earth element deposits of southeast Missouri, USA: Geology, geophysics, and exploration potential	John	Slack	USA	jfslack@usgs.gov
Theme 3: Mineral Systems	0393-000208	Epizonal overprinting of mesozonal orogenic gold systems: Relating crustal exhumation and Yukon's gold endowment		Allan	Canada	mallan@eos.ubc.ca
Theme 3: Mineral Systems	0393-000285	Tectonic architecture of ca. 1.60-1.57 Ga IOCG mineralisation in Australia	Caroline	Forbes	Australia	caroline.forbes@adelaide.edu.au
Theme 4: Innovations in Expl Tech	0393-000167	Examples of seismic signatures of large mineral systems	Greg	Turner		g.turner@hiseis.com
Theme 4: Innovations in Expl Tech	0393-000171	Finding the blind: targeting carbonate-hosted deposits using stable isotopes	Shaun	Barker		ıı sbarker@waikato.ac.nz
Theme 4: Innovations in Expl Tech	0393-000177	Improved Interface Designs for Automated Analysis of Potential Field Data	Eun-Jung	HOLDEN	Australia	eun-jung.holden@uwa.edu.au
Theme 4: Innovations in Expl Tech	0393-000033	Core Orientation – Data QC as a Key to Discovery	Russell	Myers	USA	rmyers@corvusgold.com
Theme 5: Expl Mgt & Targeting	0393-000198	The Role of Organizational Culture and Its Link to Strategy in Mineral Exploration Management	Eric	Seedorff	USA	seedorff@email.arizona.edu
Theme 5: Expl Mgt & Targeting	0393-000092	Curvature attribute from surface-restoration as predictor variable in Kupferschiefer copper potentials: an example from the Fore-Sudetic Region (Poland)	Pablo	Mejia-Herrera	France	mejia.pablo@gmail.com
Theme 5: Expl Mgt & Targeting	0393-000025	Data mining – a powerful tool for exploring under cover in mature districts	Colin	Barnett	USA	colin@bwmining.com
Theme 5: Expl Mgt & Targeting	0393-000224	An innovative structural hypothesis established during target generation for gold and copper mineralisation in the Cobar district, NSW Australia	Lize	Stander	Australia	lize.stander@newgold.com
			-			-
Theme 6: Discovery Case studies	0393-000039	Discovery History of the Sakatti Cu-Ni-PGE Deposit, Finland	Jim	Coppard	United Kin	jim.coppard@btinternet.com
Theme 6: Discovery Case studies	0393-000120	Geology and Discovery of Escondida Este Porphyry Cu-Mo Deposit, Escondida Cluster District, Northern Chile	Marco	lpinza	Chile	marco.ma.ipinza@bhpbilliton.com
Theme 6: Discovery Case studies	0393-000238	Geology and Discovery History of the Chukaru Peki Cu-Au deposit, Timok Magmatic Complex, Serbia	Vertrees "I		USA	mcanby@fmi.com
Theme 6: Discovery Case studies	0393-000191	Boliden's Garpenberg Zn-Pb-Ag mine, Sweden - Critical factors behind the discoveries that turned mine closure into a large expansion project	Rodney	Allen	Sweden	Rodney.Allen@boliden.com
Theme 6: Discovery Case studies	0393-000304	Double's diapenders 2114 or ginning, or even of character and the the backer less that which in the closer is much a large expension project. Discoversities of Freshill PP CE. The Silver Grant in Mexico	DAVID	GILES	Mexico	david giles@fresnilloplc.com
Theme 6: Discovery Case studies	0393-000031	Discovery of The Neuro Chaquino Portphyry Cu-Au (Mo) Deposit, Antionaia Department, Colombia	Paul	Bartos	USA	pbartos@anglogoldashantina.com
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List of Invited Talks

Invited KeyNote	USA	Robert Hazen - Metallogenesis, the supercontinent cycle, and mineral-forming processes through Earth history
Invited KeyNote	Switzerland	Philipp Weis - The physical hydrology of ore-forming hydrothermal systems controls the chemical enrichment of metals
Invited KeyNote	Switzerland	Massimo Chiaradia - Timescales of mineral systems - what have we learnt in the last decade?
Invited KeyNote	Australia	David Cooke - Distal footprints of porphyry systems - defining the outer limits of the geochemical halo using epidote mineral chemistry
Invited KeyNote	Australia	Ravi Anand - Geochemical dispersion through transported cover in regolith-dominated terrains - towards a process-based understanding
Invited KeyNote	USA	Ken Witherly - Deposit footprints: Moving off the path to see the way forward
Invited KeyNote	Canada	Anthony Williams-Jones - Experimental and fluid inclusion constraints on the solubility of metals in ore-forming systems
Invited KeyNote	Australia	Richard Hillis- Coiled tubing drilling, logging-while-drilling, and top-of-hole sampling: breakthrough mineral exploration technology for the 21st century?
Invited KeyNote	Canada	Doug Bryman- Muon Tomography: Bringing New physics to ore-body imaging
Invited KeyNote	Australia	Mark Jessell- The next generation of 3D geological modelling and inversion
Invited KeyNote	Australia	Cam McCuaig - The Mineral System Concept: Key to successful undercover targeting
Invited KeyNote	USA	John Muntean - The Carlin gold system: Applications to exploration in Nevada and elsewhere
Invited KeyNote	Germany	Hartwig Frimmel - A giant Mesoarchean crustal gold-enrichment event: possible causes and consequences for exploration
Invited KeyNote	Australia	Paul Agnew - Micro-analytical Innovation for Diamonds Exploration and Beyond
Invited KeyNote	Canada	Randall Oliphant - What does the global exploration industry need to deliver in the 21st Century? - A shareholder's perspective
Invited KeyNote	Australia	Richard Schodde - The Global Shift to Undercover Exploration - How fast? How effective?
Invited KeyNote	Australia	John Sykes - What will the Copper mine of the future look like?
Invited KeyNote	China	Kai Hui Yang - The business of Exploration in China (SEG Distinguished Lecture)
Invited KeyNote	USA	Clinton Scott - The role of geobiology and metallogenesis through Earth's history, with emphasis on sediment-hosted deposits
Invited KeyNote	UK	Graham Brown - AngloAmerican exploration: Key ingredients to a decade of success
Invited KeyNote	Canada	David Broughton - The Ivanhoe Group - two decades of global discoveries
Invited KeyNote	Australia	Mark Bennett - The Nova greenfields NiS discovery - key success factors for a junior explorer