Draft Scientific Programme (as of 4 May 2010)

SUN 9 MAY	8:30 AM – 6:00 PM: Field trip See http://www.gns.cri.nz/fieryice/field_trips.html			
	7:00—8:00 PM: Icebreaker & Registration, Mac's Brewery Bar & Restaurant			
	Start	**Lead author**	**Institution**	**Title (brackets: working titles)**
MON 10 MAY				
	8:00			Registration opens
	8:30	I Pecher	GNS Science, Lower Hutt, New Zealand	Welcome
	8:45	TBD	TBD	(Report from 6th Fiery Ice, Bergen, 2008)
Key Aspects of Gas Hydrates Research	9:15	T Saeki	JOGMEC, Chiba, Japan	Exploration Activities of Methane Hydrate Resources in the Eastern Nankai Trough
	9:45	**COFFEE**		
	10:15	C Paull	MBARI, Monterey, USA	(Gas hydrates and geohazards)
	10:45	M Kastner	Scripps, La Jolla, USA	Links Between the Global Gas Hydrates Reservoir and Climate Change
Character-ization of Gas Hydrates Reservoirs	11:15	D McConnell	AOA Geophysics, Houston, USA	Can resource quality gas hydrate sands be identified with conventional seismic data? Findings from recent Chevron-US Dept of Energy JIP drilling
	11:30	S Noguchi (presented by T Saeki)	JOGMEC, Chiba, Japan	3-D internal architecture of methane hydrate bearing turbidite channels in the eastern Nankai Trough, Japan
	11:45	N Bangs	U Texas Austin, USA	Rapid, Episodic Gas Migration into the South Hydrate Ridge Gas Hydrate Field Inferred from 4D Seismic Imaging
	12:00	**LUNCH**		
	1:00	G Humphrey	Fugro, Houston, USA	Coring, Pressure Coring and Core Analysis for Gas Hydrate Studies
	1:15	G Humphrey	Fugro, Houston, USA	Borehole Logging Application for Gas Hydrate Investigations
	1:30	U Tinivella	INOGS, Trieste, Italy	Geophysical Data and GIS: An Approach to Characterise the Gas Hydrate Reservoir (South Shetland Margin)
	1:45	K Schwalen-berg	BGR Hanover, Germany	Gas Hydrate Assessment Using Marine Electromagnetic Methods: Case Studies and Model Studies

Gas Hydrate Production	2:00	G Moridis	Lawrence Berkeley National Lab., USA	Gas Production from Hydrate Accumulations in Geologic Media
	2:15	T Inamori	JOGMEC, Chiba, Japan	The Monitoring of the Gas hydrate Production Test in the Mackenzie Delta
	2:30	B Kvamme	U. Bergen, Norway	(CO2-CH4 replacement)
	2:45	POSTERS	Posters and Coffee	
	4:15	Chairs	Introduction to Breakout Sessions I	
	4:30	BREAKOUT	Breakout Sessions I 1. Pre-drilling characterization of gas hydrate reservoirs 2. Exploration drilling & post-drilling reservoir characterization 3. Production tests and modelling	
	6:00	END	Conclusion of Monday Sessions	
Public Talk, Rutherford House	7:30	C Paull	MBARI, Monterey, USA	Gas Hydrate Research: Past, Present, and Future
TUE 11 MAY				
	8:15	Rapporteurs	Start of Day and Resumes from Breakout Sessions I	
Deep Biosphere	9:00	A Teske	U North Carolina, Chapel Hill, USA	The Marine Deep Subsurface Biosphere
Methane Cycling	9:15	R Coffin	NRL, Washington, DC, USA	A Geochemical Overview of Shallow Sediment Methane Source and Cycling on the Alaskan Shelf of the Beaufort Sea
Shallow Gas Hydrates	9:30	J Greinert	NIOZ, Texel, Netherlands	Gas Hydrate and Cold Seep Research Along the Hikurangi Margin, New Zealand: Results from 2006 and 2007
	09:45	**COFFEE**		
Laboratory Studies	10:15	J Priest	U Southampton, UK	(Laboratory)
	10:30	M Batzle (presented by ED Sloan)	Colorado School of Mines, Golden, USA	Geomechanical & Production Studies to Assess the Risks of Gas Production from Methane Hydrates in Nature
Wellbore Stability	10:45	R Freij-Ayoub	CSIRO, CESRE, Perth, Australia	Numerical Modelling of Casing Integrity in Hydrate-Bearing Sediments
Gas Hydrate Programs	11:00	K Rose	US Department of Energy, Morgantown, WV, USA	Understanding the Energy and Environmental Implications of Gas Hydrates and the Potential Impact of Major Field Studies
	11:30	T Uchida	Hokkaido University, Sapporo, Japan	Gas Hydrate Program (Japan)
	11:45	I Pecher	GNS Science, Lower Hutt, New Zealand	Current State of Gas Hydrate Exploration in New Zealand
	12:00	**LUNCH**		
	1:00	Hon G Brownlee	New Zealand Government, Wellington	(Keynote speech, Minister of Economic Development, Minister of Energy and Resources)

	2:00	E Willoughby	U Toronto, Canada	TBD
	2:15	I Wright	NOC Southampton, UK	Overview of Marine Hydrate Research at National Oceanography Centre, Southampton
	2:30	S Chand	NGU Trondheim, Norway	Gas Hydrates on the Norway-Barents Sea-Svalbard Margin (GANS) - New Results on Gas Hydrate System and Fluid Flow
	2:45	POSTERS	Posters and Coffee	
	4:15	Chairs	Introduction to Breakout Sessions II	
	4:30	BREAKOUT	Breakout Sessions II 4. Gas hydrate petroleum system 5. Laboratory studies 6. Near-seafloor gas hydrates, environmental impact of hydrate production, and geohazards from gas hydrates (note: may be split into two)	
	6:00	END	Conclusion of Tuesday Sessions	
Dinner	**7:00**	**Conference Dinner at Copthorne Oriental Bay**		
WED 12 MAY				
	8:15	Rapporteurs	Start of Day and Resumes from Breakout Sessions II	
(Contd., Gas Hydrate Programs)	9:00	N Wu	Guangzhou Institute of Energy Conversion, China	Gas Hydrates Research in Northern South China Sea
	9:30	TF Yang	National Taiwan University	Introduction to the Gas Hydrate Master Project of Energy National Science and Technology Program of Taiwan
	10:00	**COFFEE**		
	10:30	P Dewangan	National Institute of Oceanography, Goa, India	TBD
	10:50	TBD	TBD	TBD
	11:10	J Diaz	P. Universidad Catolica de Valparaiso, Chile	Advances in Hydrates Exploration at the Chilean Margin
	11:40	J. Lee	Korea Institute of Geosciences and Mineral Resources, Daejeon	The Review of Gas Hydrate research in Korea
Lunch	**12:00**			
	1:00	Chairs	Introduction to Ad-hoc Breakout Sessions and Mini-workshops	
	1:15	BREAKOUT	Ad-hoc Breakout Sessions and Mini-workshops	
	2:45	**COFFEE**		
	3:15	Rapporteurs	Resumes from Ad-hoc Breakout Sessions Mini-workshops	
	4:00	PLENARY	Plenary Discussion: Characterization of Gas Hydrate Reservoirs Next Workshop Final Remarks	
	6:00	**END**	Conclusion of Workshop	

THU 13 MAY		Post-conference Workshop, Gas Hydrate Studies Offshore New Zealand	Post-conference Workshop at GNS Science, 1 Fairway Drive, Lower Hutt: Gas Hydrate Studies Offshore New Zealand: Charting the (Hopefully) Not-so-distant Future **Fiery Ice participants most welcome** Objectives: The gas hydrates workshop has three overarching objectives: 1. Exploration for gas hydrates as an energy source: To determine options for energy-related gas hydrates exploration with a focus on identifying sites for exploration drilling on the Hikurangi Margin within an (optimistic) timeframe of five years. 2. Basic science related to gas hydrates: To discuss possible collaboration on fundamental science questions related to gas hydrates in New Zealand 3. IODP drilling: To compile fundamental science questions broadly related to gas hydrates that may become part of an IODP proposal for the Hikurangi Margin

Posters (as of 4 May 2010)

Lead author	Presenter (if different)	Institution	Title (brackets: working titles)
Barnes P	-	NIWA, Wellington, New Zealand	Tectonic and Geological Framework for Gas Hydrates and Cold Seeps on the Hikurangi Subduction Margin, New Zealand
Chen Q	-	Qingdao Institute of Marine Geology, China	High Pressure Differential Scanning Calorimetry Measurement of Hydrates Phase Equilibrium in Pore Water of Shenhu area, South China Sea
Davy B	Pecher IA	GNS Science, Lower Hutt, New Zealand	Giant Pockmarks on the Chatham Rise, New Zealand - Evidence for Massive Release of Gas from Hydrates During Glacial-Interglacial Cycles?
Fohrmann, M	-	GNS Science, Lower Hutt, New Zealand	Analysing Gas-Hydrate-Bearing Channel Systems Using an AVO Seismic Inversion Technique on the Southern Hikurangi Margin, New Zealand
Haeckel M	Klauke I	IfM-GEOMAR, Kiel, Germany	The German collaborative project SUGAR
Hamdan LJ	-	NRL, Washington, DC, USA	DIversity and Biogeochemical Structuring of Bacterial Communities in Methane Charged Sediments from the Porangahau Ridge, New Zealand
Hu GW	Ye Y	Qingdao Institute of Marine Geology, China	Acoustic Properties of Gas Hydrate-Bearing Unconsolidated Sediments and Elastic Velocity Models Validation
Inamori T	-	JOGMEC, Chiba, Japan	Rock Physics Model of Methane Hydrate Bearing Sediments in the Nankai Trough and the Mackenzie Delta
Joshi RK	Dewangan P	National Institute of Oceanography, Goa, India	Geoscientific Investigations of Marine Sediments in the Vicinity of Gas Hydrates: Offshore Krishna Godavari (KG) Basin, India.
Klaucke I	-	IfM-Geomar, Kiel, Germany	The Variability of Gas Seeps Along the Hikurangi Margin offshore New Zealand
Lee, JY	-	Korea Institute of Geosciences and Mineral Resources, Daejeon, Korea	Thermal stimulation production experiment using natural GH-bearing marine sediments from the Ulleung Basin – Preliminary Results

Liu CL	Ye Y	Qingdao Institute of Marine Geology, China	Characteristics of Marine Gas Hydrate Recovered from Shenhu Area in South China Sea
Liu CS	-	National Taiwan University	Recent Advances on Seismic Investigation of the Gas Hydrate Field Offshore Southwestern Taiwan
Lorenson T	Rose K	USGS Menlo Park, USA	Methane Concentrations in Sediment And Bottom-Water Of The Alaskan Beaufort Sea
Lorenson T	Rose K	USGS Menlo Park, USA	Gas geochemistry of the Mount Elbert Gas Hydrate Test Well, Milne Pt. Alaska: Implications for Gas Hydrate Exploration in the Arctic
Matsushima J	-	University of Tokyo, Japan	Experimental Approach to Characterize Seismic Attenuation in Methane Hydrate-Bearing Sediments
Mir RA	-	University of Toronto, Canada	Controlled Source EM and 3D modeling of resistive targets
Nagakubo S	Nakatsuka Y	JOGMEC, Chiba, Japan	Overview of the Research Program on Environmental Impact Assessment for the Marine Production Test in Offshore Japan
Nenkoda A	-	Gadjah Mada University, Indonesia	Production Behavior of Synthetic Gas Hydrate Under Hot Sea Water Injection: Laboratory Case Study
Nenkoda A	-	Gadjah Mada University, Indonesia	Possible Geohazard Scenario From Indonesian Natural Gas Hydrate Production
Ning FL	TBD	China University of Geosciences, Wuhan, Hubei	A Concept of Utilizing Solar Energy to Exploit Gas Hydrates Buried in Oceanic Sediments
Ogebule OY	Pecher IA	Heriot-Watt University, Edinburgh, UK	Possible Evidence for Gas Hydrates in the Northland – Northern Taranaki Basin, New Zealand
Pecher IA	-	GNS Science, Lower Hutt, New Zealand	The Gas Hydrates Petroleum System on the Hikurangi Margin, New Zealand - Current State of Knowledge
Roach L	-	University of Toronto, Canada	Long-term Seafloor Compliance Monitoring of the Bullseye Vent Gas Hydrate System
Shiga T	Uchida T	Hokkaido University, Sapporo, Japan	Sintering Process Observations on Clathrate Hydrates
Swidinsky A	-	University of Toronto, Canada	Joint Inversion of Navigation and Gas Hydrate Resistivity Structure Using a Fixed Transmitter and a Moving, Linear Receiver Array: A Model Study
Swidinsky A	-	University of Toronto, Canada	Transient Electromagnetic Imaging of Thin Resistive Targets: Applications for Gas Hydrate Assessment
Toulmin S	Pecher IA	Heriot-Watt University, Edinburgh, UK	Gas Hydrate Formation on the Porangahau Ridge Offshore New Zealand – Evidence from Seismic and Electromagnetic Data
Willoughby, E	-	University of Toronto, Canada	Long-Term Seafloor Observatory Monitoring of Marine Gas Hydrates with NEPTUNE, Canada

Wu DD	-	Guangzhou Institute of Energy Conversion, China	Early Diagenesis Records and Geochemical Characteristics of Gas Hydrate in the South China Sea