
Monday

Auditorium Lumière

Plenary

8:00 AM

Welcome registrations

11:00 AM

weclome speech

12:00 PM

Lunch break

2:00 PM plenary

Praveen Linga, Sustainable Decarbonization through Clathrate Hydrates

Moridis George, CO₂-Hydrates Forming Impermeable Layers for CO₂ Immobilization and Sequestration Enhancement in Oceanic Aquifers

Takeuchi Hakuya, Cooling Performance of TME Hydrate-Based Thermal Storage Heat Exchanger for Data Centers

Takeya Satoshi, What we learn on gas hydrates by X-ray computed tomography

Coffee break

Riedel Michael, A new Land-to-Sea ICDP/IODP3 proposal: "Thawing of permafrost and cryosphere-associated gas Hydrates by Arctic Warming (THAW)"

Yasuhiro Nakatsuka, MH21 project

6:00 PM

End of the Day

Tuesday

	<i>room 1</i>	<i>room 2</i>	<i>room 3</i>	<i>room 4</i>	<i>room 5</i>
8:00 AM	session 1 Guo Guang-Jun, Molecular Simulation Study on the Mechanism of Methane Hydrogen Isotope Fractionation During Natural Gas Hydrate Growth	session 4 Cardona Alejandro, Dissolution and Flow Channeling in Hydrate-Bearing Sediments: Implications for Permeability	session 5 Chien Yu-Chien - Mid-Scale Carbon Storage: Gas Hydrate Formation in a 15-liter Vessel.	session 2 Sum Amadeu, The next generation of tools and models for gas hydrate management in flow assurance	
8:15 AM	Legrand Maxime, Gaussian process regression models to predict ab initio quality structural and thermodynamic properties in gas hydrates	Yu Lu, Pore-scale modeling of hydrate-bearing sediments in China South Sea: Multi-phase flow and production insights	Zhang Ye - Amino Acids Accelerated Phase Change of Ih Ice to sII Hydrate for Sustainable Energy Storage	Ninomiya Shuhei, Experimental Study on Scale and Surface Properties' Effect on the Crystalization Dynamics, Growth Rate, and Morphology of Gas Hydrate using a Pressure Cell	
8:30 AM	Patt Antoine, From atomistic hops to diffusion within mixed CO2/CH4/N2 hydrates: A computational study	Xing Lanchang, Evaluation of hydraulic permeability of hydrate-bearing sediments based on broadband electrical spectra from mHz to MHz: Theory, simulation and experiment	Chien Yu-Chien, Methane Storage Using Adsorption-Gas Hydrate Formation Hybrid Technology	Samar Belkacem, Experimental investigation and modeling of viscosity in hydrate-wax systems	
8:45 AM	Ballenegger Vincent, Transition between clathrate structures II and H in argon and methane hydrates from Lattice-Switch Monte Carlo simulations	Wang Yunhui, Hydrate-bearing tri-phase sediment: Occurrence and interphase contact relationship	Yu Yi-Song, A strategy to obtain high hydrate gas uptake in the presence of a Thermodynamic promoter	Boris Balakin, Experimental and numerical studies of clogging in cohesive slurries	
9:00 AM	Rodriguez Herrera Danny, Tracking the Molecular Mechanism of Gas Hydrate Formation	Arora Amit, Mechanical and rheological properties of hydrate-bearing sediments of Indian Reservoir	Jeenmuang Kan, Simplified Methane Hydrate Formation via Pre-Formed Amino Acid-Modified Ice Cubes Yielding Transport-Ready Hydrates	Abdul Majid Ahmad Afif, Evaluation of Hydrate Plugging Mechanisms using a High-Pressure Rheometer : A Case Study	
9:15 AM	Huang Liang-Yao, Unraveling the Multifaceted Role of L-Cysteine in CO2 Hydrate Nucleation: New Insights from Molecular Dynamics Simulations	Liu Zhichao, Mechanical Behavior of Layered Hydrate-Bearing Sediments under Triaxial Shear and Creep Conditions	Lee Chan Hyoung, A Scalable Continuous Reactor System for Methane Hydrate Pelletization toward Bio-SNG	De Vasconcelos Luiz, Effectiveness of chemical additives on gas hydrate transportability under multiphase flow conditions for brine systems	
9:30 AM	coffee break + Posters				
10:30 AM	session 1 Fernandez-Fernandez Angel Manuel, Fluoromethane Hydrates Phase Diagram from Molecular Dynamics Simulation via Direct Coexistence Method in the NpT and NpH ensembles	session 4 Yoneda Jun, Pressure Coring and Analysis of Gas Hydrate-Bearing Sediments from the Offshore Shima Peninsula, the Eastern Nankai Trough, Japan	session 5 Liu Hai-Long, The Enhancing Role of a Dispersion Medium in Methane Hydrate Formation	session 2 Dehghani Peyman, CO2 Hydrate Nucleation Study: A Novel High-Pressure Microfluidic System	
10:45 AM	Li Jing, Experimental Simulation Study on Microbial-Driven Methane Source-Sink Processes in the Marine Subsurface	Liang Deqing, Study on Sand Control in the Production and Stimulation of Fines-Controlled Hydrate-Bearing Sediments	Seol Jiwoog - Efficient CH4 Storage using sH Amine Promoters	Noville Ivan, Kinetics of Gas Hydrate Formation from CO2, and CO2-Rich Mixtures under Conditions Relevant to Carbon Capture and Storage (CCS)	
11:00 AM	Liu Xuejian, Deciphering the role of hydrophobic amino acid in tuning CO2 clathrate growth from liquid CO2: Insights from MD simulations and visual experiments	Zhang Yongchao, The Proppant Embedment in Artificial Fractures of the Clayey-silty Hydrate-bearing Sediments	Farhadian Abdolreza - Achieving Ultra-High Methane Storage Capacity Using Adsorption-Gas Hydrate Hybrid Technology	Kumar Asheesh, Hybrid Additives for Flow Assurance : Addressing Corrosion and Gas Hydrate Challenges in Oil & Gas Operations	
11:15 AM	Muromachi Saneshiro, A New Class of Hydrate Formed with Asymmetric Ammonium Salts	Saini Sweta, On Particle Size Distribution of Gas Hydrate-bearing sediments from Indian basins	Alexia Denoncourt - The Effect of Crystalline Nanocellulose on Methane Hydrate Formation	Namrata Deepakrao Gaikwad Namrata, Gas Hydrate Modelling in Saline Water System Addressing Flow Assurance Issues	

11:30 AM	Beydoun Ali, Geometrical Analysis of Mass Diffusivity in CO ₂ -CH ₄ sI Gas Hydrates	Li Yanghui, Interface Mechanical Behavior of the Hydrate-Bearing Sediment and Structure	Methane Hydrate Formation Kinetics and Structure Information	De Vasconcelos Luiz, Effectiveness of chemical additives on gas hydrate transportability under multiphase flow conditions for brine systems	
11:45 AM	Zhang Mingmin, Molecular Insights into Clathrate Hydrate Growth and Gas Storage Using 1,3-Dioxolane	Shoji Nana, Mechanical Characterization of Near-Sea-floor Methane Hydrate Bearing Sediments Using Discrete Element Modeling and Experimental Validation	Duan Jun, Enhanced the heat and mass transfer mechanism of methane storage in MOF-Ice system	Jones Regan, Qualification of New Kinetic Hydrate Inhibitor for Offshore Lean Sour Gas Field	
12:00 PM	Lunch break + posters				
	session 1	session 4	session 5	session 2	
2:00 PM	Frah Dounya, Hydrogen storage in mixed hydrates within porous materials: influence of pore size, hydrophobicity, and water saturation	Li Xiaodong, Numerical investigation of gas and sand production from gas hydrate bearing sediments by IMPES method	Chen Lijin, Ice-Templated Radial Channels in Bio-hydrogels for Rapid and Efficient Gas Hydrate Formation	Mazzeo Claudia, Extending North Sea Field Life with a Green Hydrate Anti-Agglomerant	
2:15 PM	Veluswamy Hari Prakash, Investigation of mixed hydrogen hydrate formation kinetics facilitated by dual promoter system	Chen Yuxiang, Self-Locking Dissociation Fronts Driven by Pore-Scale Phase Trapping in Hydrate-Bearing Sediments	Jiang Lanlan, Pore-Size Dependent Morphological Diversity of CO ₂ Hydrates within Metal-Organic Frameworks	Costa Do Nascimento DÃ©bora, Gas hydrate characterization under transient conditions for water-in-crude oil emulsions in the presence of LDHs	
2:30 PM	Fiedler Felix, Phase Equilibria of Hydrogen Hydrates Modeled with Reference Equations of State	Hasani Motlagh Amin, Volume change behavior of fine-grained sediments during hydrate vein dissociation	Zi Mucong, Facet-Dependent Water Clustering in ZIF-8 Enables High-Efficiency Methane Storage	Sum Amadeu, Mapping the conditions for gas hydrate transportability in condensate systems with LDHI-AAs	
2:45 PM	Di Profio Pietro, Ternary Hydrates of Hydrogen and Mixed Hydrophobic/Hydrophilic Co-formers: Functional and Structural Characterization	Eslami Amirabadi Omid, The Effect of Water Saturation on Laboratory-Synthesized Hydrate-Bearing Sands	Rothmund Erling Velten, Hydrogen storage in nanoconfined gas clathrate hydrates	Barwood Mark, Time-Dependent Hydrate Nucleation: Linking KHI Concentration to Inhibition Efficacy	
3:00 PM	Renaud Loan, Dual quantum locking: Dynamic coupling of hydrogen and water sublattices in hydrogen filled ice	Wei Jinshun, Numerical Simulation of Natural Gas Hydrate Depressurization Production Considering Fluid-Solid Coupling and Sand Production Effects	Silvestre-Albero Joaquin, Gas hydrates confined in activated carbons as excellent platforms for gas storage	Fang Wei, Designing Next-Generation Anti-Agglomerant Low Dose Hydrate Inhibitor/Corrosion Inhibitor (AA/CI) Combo Products: Key Factors for Enhanced Flow Assurance for Offshore Applications	
3:15 PM	Vishwakarma Gaurav, Isoxazole-Stabilized Clathrate Hydrate for Hydrogen Storage	Toshiro Hata, Proposal for a Novel Sand Production Mitigation method Utilizing In-Situ Microbial functions in Methane Hydrate-Bearing Layers	Aghajanloo Mahnaz, Investigation the Effect of Subcooling on the Kinetics of CO ₂ Hydrates Formation/Dissociation in Porous Media	Wang Jin Tang, Development and Mechanistic Study of Modified Polysaccharide-Based Inhibitors for Natural Gas Hydrate Formation	
3:30 PM	coffee break + Posters				
	session 1	session 4	session 5	session 2	
4:30 PM	Perez Rodriguez Martin, Organic clathrates in porous materials for hydrogen storage	Dong Lin, Acoustic characterization of hydrate-bearing sand under compression	, "Dual-reservoir pressure synchronization: Innovations in natural gas hydrate-shallow gas co-exploitation"	Sinquin Anne, Pilot loop study of waxy condensate: wax and hydrate formation, rheological characterization and impact on pressure drop	
4:45 PM	Mahant Bhavikkumar, Experimental gas hydrate phase equilibria study for H ₂ -CH ₄ and H ₂ -natural gas mixtures for energy storage	Uchida Shun, Coupled geomechanical effects on gas and sand production in hydrate reservoirs	Li Yang, Ultra-rapid methane hydrate kinetics enabled by L-Methionine modified active ice for solidified natural gas storage technology	Pham Trung-Kien, Hydrate formation and transport in a flow-loop at high water cut in the presence of salt and anti-agglomerants	
5:00 PM	Blas Felipe J., Unveiling the methane hydrate/water interfacial free energy by direct molecular simulation at coexistence	Lei Jiang, Migration characteristics of fine clay particles under the influence of pore water during production in marine clayey silt hydrate reservoirs	Mahant Bhavikkumar, Optimization of chemical additives for hydrogen rich natural gas hydrate for energy storage and transportation	Muromachi Sanehiro, Visual Investigation of Methane Hydrate Dissociation Behaviors in Water-Rich Systems Using a Multi-Rocking Cell	

5:15 PM	Wachikwu-Elechi Virtue Urunwo, Potato Peel Modified Starch (PPMS) From Agro Waste as Methane Gas Hydrate Inhibitor in a High-Pressure Apparatus	Wu Peng, Undrained deformation of hydrate-bearing clayey silt could generate shear band	Esquivias Brandon, Large-scale experimental investigation of natural gas hydrate formation for commercial storage and transportation	Saraiva Valim Leandro, Comparative Assessment of Gas Hydrate Transportability at Different Scales	
5:30 PM	Shunsuke Morita, Lattice Constant of CH ₄ + Tertbutyl Alcohol Determined by Powder X-ray Diffraction Measurements	Shi Haoxian, Simulation and Experimental Study on Extrusion Filling Process Parameters of Shallow Soft Hydrate Reservoirs in Sea Areas	Pandey Gaurav, Experimental and Modelling Study of Hybrid Natural Gas Recovery Methods in Marine Hydrate-Bearing Sediments	Liang Youran, Dielectric Constant Monitoring for Early Warning of Gas Hydrate Formation in Flow Loop	
5:45 PM	Li Yanlong, Nanoindentation reveals Stress-Induced Melting of Methane Hydrate	Mi Fengyi, A dichotomous interfacial mechanism governs the nucleation and mechanical stability of clay-hosted hydrate sediments	Yadav Ayush, Effect of Sequential Monovalent and Divalent Brine Pore Volume Injection on CH ₄ -CO ₂ Exchange process in Natural Gas Hydrates	Wu Haihao, High-Pressure Flow Loop Experiments on Hydrate Formation, Flow, and Deposition in Water-Dominated Systems	
6:00 PM	end of day				

Wednesday

	<i>room 1</i>	<i>room 2</i>	<i>room 3</i>	<i>room 4</i>	<i>room 5</i>
	session 1	session 4	session 5	session 2	
8:00 AM	Muraoka Michihiro, Performance Ranking of 30 Growth Inhibitors in Clathrate Hydrate and Solution Systems	Collett Timothy, Gas Hydrate Geohazard Challenges – Infrastructure Concerns	Gao Jingbo, Enhanced hydrogen storage in clathrates enabled by water-in-cyclopentane nano-emulsion for offshore hydrogen storage	Morrissy Shane, How Laboratory Studies Can Inform Risk Management	
8:15 AM	Li Chenglong, System-Size and Inhibitor-Concentration Dependence of Gas Hydrate Nucleation Kinetics	Jose Nicolas, Parameters and Fluid Properties Controlling Hydrate-Ice Competition in Oil and Gas Production	Tian Mi, Hydrogen Gas Hydrates in a Non-Conventional System	Estanga Douglas, From Hydrate Avoidance to Predictive Control: The Role of Multiphase Flow Modeling and Pipe Geometry in Modern Hydrate Management	
8:30 AM	Han Bingyue, Development of Hybrid Inhibitors for CO ₂ -rich Gas Hydrate in the South China Sea: Synergistic Inhibition Mechanisms and Field Application	Li Yanlong, Geological-engineering integrated development of marine natural gas hydrate and its advancement in China	Xiao Mengqi, Direct use of seawater in hydrate-based hydrogen storage for superior H ₂ gas uptake: Insights on DIOX concentration tuning effects	Afra Salar, Gas Hydrate Plugging Risk Assessment with Physics-Informed Machine Learning Using Field Production Data	
8:45 AM	Muraoka Michihiro, A New Understanding of KHI Mechanism for Gas Hydrate Inhibition in Multiphase Systems	Matsui Miyu, Sandbox Experiment as Ground Truth for Evaluating the Forecast Accuracy of Carbon Storage Using Hydrate System	Vishwakarma Gaurav, Hydrogen storage via clathrate hydrates under mild conditions enabled by mixed cyclic ether synergy	Fernandes Leonardo, Evaluation of OLGA hydrate models for extending No-Touch Time in Offshore Oil and Gas systems: a Case Study	
9:00 AM	Li Chengzhuo, Effect and mechanism of a novel non-foaming surfactant on methane hydrate formation kinetics	Zhao Jianzhong, Research on the Regulation of Depressurization Production in Natural Gas Hydrate Reservoirs	Zheng Ruyi, Investigating the Kinetic Barriers and Stability of Multi-Occupied Hydrogen Hydrate Cages for Enhanced Storage Capacity	Yan Li, CFD-DEM Coupling Simulation of Particle-Hydrate Deposition Behavior in T-Junction Pipes	
9:15 AM	Wachikwu-Elechi Virtue Urunwo, MUSA PARADISIACA EXTRACT (MPE): EFFICACY AND BIODEGRADABILITY AS A GAS HYDRATE INHIBITOR	Liang Qianrong, The Environmental Impact of Marine Gas Hydrate Production Test of the South China Sea	Anupam Kumar, Promoter-Assisted Hydrate-Based Gas Separation for CO ₂ Capture from CO ₂ -H ₂ Mixtures	Karp Joel, A Transient Multiscale Consolidation (MC) Model for Gas Hydrate Formation and Dissociation in Multiphase Systems	
9:30 AM	coffee break + Posters				
	session 1	session 4	session 5	session 2	
10:30 AM	Broseta Daniel, Investigations into gas hydrates from optical observations through glass microcapillaries	Lv Qjunan, Evaluation of Gas Production from Ultra-Deep Water and Ultra-Shallow Gas in Lingshui 36-1 Gas Field in Qiongdongnan Basin, South China Sea	Wang Xiaolin, Manipulating Self-Preservation to Enable Stable Hydrate-Based Gas Storage	Bassani Carlos, The missing scale: How to better understand gas hydrates in flow assurance	
10:45 AM	Pan Mengdi, Coupled Nanobubbles Gas Hydrate Dynamics across Crystallisation, Dissociation, and Greenhouse Gas Retention	Wang Yi, Development of an In-situ Natural Gas Hydrate Drilling and Production System for Economically Exploitation	Kim Sungwoo, Solid Semiclathrate Frameworks for Phase Change-Free CO ₂ Separation via Pressure-Driven Diffusion	Haiyuan Yao, Unsupervised Deep Learning for Hydrate Blockage Early Warning in Deepwater Multiphase Flow	
11:00 AM	Wang Jiguang, Abnormal Hydrate Formation at the Oil&Gas Interface Induced by Marangoni Convection in Oil&Gas Water Multiphase Systems	Wang Yi, Experimental Study of Gas Production from Natural Gas Hydrates - Using the Ultra Large-scale meThane hydrate simulator (ULTRA)	Paul Lagnajita, Thermodynamic and Kinetic Pathways for Separation of Highly Energy Intensive H ₂ O and D ₂ O Mixtures via Gas Hydrate Technology	Zerpa Luis E., The First Unified Mechanistic Transient Modeling of Gas Hydrates in Pipelines	

11:15 AM	Machado Vitor, Hydrodynamics of Hydrate-Like Particles in Horizontal Gas-Liquid-Solid Systems in Stratified and Slug Flow Regimes	Yang Guo, Large-scale experimental study on the dynamics of natural gas hydrate production with underlying shallow gas	Ondřej Bartoš, A Study of the Energy Accumulation Cycle Using CO ₂ , Hydrates for Temporary Storage	Huang Ting, Experimental Study on the Microscopic Decomposition Kinetics of Natural Gas Hydrate Particles	
11:30 AM	Del Rosso Leonardo, Emptied hydrates: challenges and new perspectives in the intermediate pressure regime	Qin Fanfan, Numerical simulation on co-production of hydrate and free gas from silty clay reservoir in the South China Sea by cyclic depressurization	Yang Bo, A Review of Hydrate-Based Gas Separation and Solid-State Storage Technology	Sakurai Shunsuke, Influence of moisture on hydrate deposition in subsea gas pipeline	
11:45 AM	Yin Zhenyuan, Unveiling path-dependent methane hydrate growth behavior via high-pressure microfluidics coupled with in-situ Raman	Li Qingping, Gas and Water Production and Interlayer Interference in Joint Depressurization of Natural Gas Hydrate and Shallow Gas Through One Vertical Well	Yasuda Keita, Phase Equilibrium Measurements of Epoxycyclopentane Clathrate Hydrate for Application to Seawater Desalination	Norris Bruce, A Lab Scale Study of Under-Inhibition and Flowability for an Operating Gas Condensate System	
12:00 PM	Lunch break + posters Afternoon : FREE TIME				

Thursday

	room 1 session 1	room 2 session 4	room 3 session 5	room 4 session 2	room 5 session 4
8:00 AM	Tozuka Kengo, Phase Equilibrium in the Heavy Water-Methane-Methylcyclohexane System	Li Jie, Assessment of CO2 Sequestration in Gas Hydrate Form in Depleted Gas Reservoirs in north of Fort McMurray, Alberta, Canada	Mok Junghoon, Gas Hydrate Condensation: A Novel Approach for Sustainable CO2 Capture	Sum Amadeu, Safe or not safe: a shut-in/restart risk approach based on the morphology of gas hydrates	Afra Salar, AI-Based Virtual Flowloop for Hydrate Blockage Prediction Using Survival Modeling
8:15 AM	Goswami Kamlesh, Effect of 1,3-Dioxolane on the Thermodynamic of Flue Gas Hydrate for Carbon Sequestration	Kumar Suraj, CO2 Sequestration as Gas Hydrates in Sand-Rich Marine Sediments: A Kinetic Study with Biocompatible Promoters	English Niall, Nanobubble-Facilitated Industrial Applications of Gas Hydrates	Carneiro Joao, Well restart hydrate risk assessment based on a data-driven and hybrid approach using historical hydrate cases	Abe Shungo, Application of the Anelastic Strain Recovery (ASR) Method for Estimating Subsurface Stress Conditions
8:30 AM	Li Shengli, Spatially-Variable Thermodynamics of Gas Hydrate in Clay Bound Water	Yuanxin Yao, CO2/CH4 hydrate formation from CO2/CH4 liquid mixtures: A key to CO2 sequestration in marine depleted hydrate and shallow gas reservoirs via liquid CO2 injection	Lee Ju Dong, Hydrate-based Water Treatment: Towards Industrial Application of ZLD	Xiao Yanyun, Effect of Water Cut on the Formation, Blockage, and Decomposition Characteristics of Waxy Natural Gas Hydrates	Okamoto Kanyo, Feasibility Study of a Mud Circulation Based Coaxial Dual Pipe Lifting System for Methane Hydrate Production
8:45 AM	Kamiya Leo, Structure-Dependent Shifts of Clathrate Hydrate Phase Equilibria Induced by Chlorine Substitution	Zhong Xiuping, Pore-scale formation of CO2 hydrates in sandstone and global assessment of hydrate-based CO2 storage potential in marine sediments	Seo Seong Deok, Simultaneous Removal of Multiple Radionuclides with Seawater via a Hydrate-Based Purification Process	Ismail Nur Aminatulmimi, Microscale evaluation of crude oil non-plugging potential and asphaltene-hydrate agglomeration	Chen Zehao, Evaluation of geotechnical stability and production efficiency in ultra-deepwater and ultra-shallow hydrate-gas reservoir: A precise THMC coupling simulation investigation
9:00 AM	Tachibanaya Yuto, Phase Equilibria of Air + Cyclopentane Double Hydrate For Low-Pressure Air Separation Process	Sinquin Anne, CO2 hydrate formation in porous media-kinetics of hydrate formation (CO2BHYS)	Perapu Nagaraju, Kinetic Enhancement of Ethane Hydrate Formation by Surfactants for Hydrate-Based Seawater Desalination	Song Guangchun, Investigation on the Mechanical Stability of Pipeline Hydrate Plugs Based on Particle Flow Theory	Zhang Qi, Saturation-Dependent Reservoir Subsidence During Gas Hydrate Production: A Coupled THMC Simulation Study
9:15 AM	Maghsoodloo Saheb, From electrolyte solution properties to hydrate phase behavior: a predictive eCPA-based framework	Masclé Matthieu, CO2 storage in depleted reservoir: Hydrate risks	Khan Muhammad Saad, Unlocking Energy-Efficient Freshwater Production: Ethylene-Based Hydrate Desalination Under Mild Conditions	Meng Yang, Attenuation-Aware Long-Distance Detection of Hydrate Blockage in Pipelines: Robust Denoising, TOF Features, and Field Validation	Perrier Laurent, Hydrogen storage in organic clathrates confined in nanoporous materials
9:30 AM	coffee break + Posters				
	session 1	session 4	session 5	session 3	session 3
10:30 AM	Subhash Kumar Sharma, A Lattice-Agnostic Law Governing Impurity Rejection in Ice and Clathrate Hydrates	Castellani Beatrice, CO2 hydrate formation in marine sediments: experimental comparison of natural seawater and artificial brines	Chourasia Vikash, Concurrent CO2, Capture and Desalination via Hydrate Formation using biogas: Comparative Kinetics of Binary and Ternary Gas Systems	Lai Weicheng, Progress in CNOOC Geological Research on Natural Gas Hydrates	Bove Livia Eleonora, New High Density hydrates under planetary conditions
10:45 AM	Kumar Dalip, Heterogeneous Hydrate Nucleation at a Distance from Ice by Order Transmission: Free Energy Landscape, Kinetic Enhancement, and Order Diffusion	Fujimoto Takeshi, Dual-Functional Application of TBAB Semiclathrate Hydrates for Shallow Ground Improvement and CO2 Sequestration in Unsaturated Soils	Babu Ponnalavan, A Structured Framework Guided Assessment of HFC-152a for Clathrate Hydrate Desalination of Produced Water	Flemings Peter, Coring the methane hydrate system in the deepwater Gulf: the UT-GOM2-2 Expedition	Gloesener Elodie, Clathrate Hydrates in Icy Moons: Modeling Cage Occupancy, Density and Thermodynamic Inhibition by Ammonia
11:00 AM	Yuan Chengyang, Revisit heat conduction in clathrate hydrates by considering both complex host cages and guest fillers	Gu Yuhang, Feasibility study on liquid CO2 injection and long-term subsea sequestration as hydrates using horizontal well in South China Sea marine sediments	Chen Chen, Repurposing the eco-friendly snow-melting agent potassium acetate for efficient methane hydrate exploitation	Pang Shouji, Construction Progress and Observational Achievements of the World's First Mid-latitude Natural Gas Hydrate Field Station	Kviring Yevgeniy, Glycine behavior in a cometary ice matrix
11:15 AM	Kageyama Sho, Concurrent dynamics of D2O + HFC-134a hydrate crystal growth and HFC-134a bubble formation at the liquid-liquid interface	Sha Zhibin, Roles of montmorillonite clay on the kinetics and morphology of CO2 hydrate in hydrate-based CO2 sequestration	Namrata Deepakrao Gaikwad Namrata, Hybrid Ionic Liquid-Promoted Gas Hydrate System for Low-Energy CO2, Capture and Sequestration	Fandino Torres Olivia, Methane Storage Beneath an Anoxic Sea: The Black Sea Gas Hydrate System	Marek Garrett, Kinetic Hydrate Inhibitors Driving Emission Reductions and Operational Efficiency in Remote Regions

11:30 AM	Costa Do Nascimento DÃ©bora, Protic Ionic Liquids Applied to Gas Hydrate: Equilibrium and Transportability Measurements	Wu Xiaofei, Saturation Evaluation Based on Dielectric Dispersion Property of Hydrates in Hydrate-Based CO2 Sequestration Techniques: Molecular Dynamics and Finite Element Modeling	Tenardi Liam, An In-line Hydrate Deposition Sensor for Pipeline Monitoring	Burwicz-Galerne Ewa, Identifying meta-stable gas hydrate hot-spots in the Arctic: natural gas hydrate cyclicity vs. climate triggers	Esper Sophie, Combining Crystal Structure Prediction and X-Ray Diffraction Highlight a New Structure for N2 and Mixed Hydrate at High Pressure
11:45 AM	Wachikwu-Elechi Virtue Urunwo, Structure I Gas Hydrate Mitigation:Evaluating the Potential of Alium Cepa Skin Extract (ACSE) For Simulated Deep Water Operation	Song Wei, Stability of CO ₂ , Hydrate-Based Carbon Sequestration in Clay-Bearing Permafrost Reservoirs: Effects of Illite and Ice-Hydrate Interactions	Delahaye Anthony, From the thermohydraulic characterization of hydrate slurries to their integration into secondary refrigeration systems	Gupta Shubhangi, Nonlinear gas hydrate dynamics across 40 million years of Antarctic glaciation	Bauer Robert, Clathrate hydrate formation from supercooled solutions
12:00 PM	Lunch break + posters				
	session 1	session 4	session 5	session 3	
2:00 PM	Lan Xiaobing, Performance and insights into the CO2 hydrate-based method for the removal of lead (II) ions in aqueous solution	Zheng Junjie, Tuning Hydrate Formation for Efficient CO2 Sequestration in Marine Sediments	Rihab Khirallah, Experimental study of CO2 hydrate slurry in a secondary refrigeration system including a heat exchanger	Li Ang, Spatial variation of methane flares at the Guanshan-1 cold seep of the Middle Okinawa Trough from 2013 to 2024	
2:15 PM	Fidler Lilli-Ruth, Self-Preservation of CO2 Hydrates: Gravimetric and Thermal Analysis	Sun Jiayu, Ultra-rapid CO2 hydrate kinetics enabled by CO2-in-H2O emulsion for effective CO2 sequestration in marine sediments	Lunxiang Zhang, Advances in hydrate-based cold-thermal storage: exploring pathways and prospects for scaling up	Sun Tiantian, Shallow-water seep dolomites record large-scale paleo-methane seepage	
2:30 PM	Le Quang Du, Investigating the Structure and Selectivity of CO2/N2 Systems in Hydrates and Semi-Clathrates by In-situ Raman Spectroscopy	Pagar Eti, Understanding the role of salinity on CO2-N2 hydrate kinetics in oceanic sediments for CO2 sequestration: Experimental & Modeling Insight	Burla Sai Kiran, Gas Hydrate-Based Fire Suppression Systems : Performance Evaluation, Reignition Control, and Scalable Hydrate Pelletization	Heidari Atousa, Formation Mechanism, Gas Selectivity, and Stability Field Investigations of Thermogenic Gas Hydrates in the Sea of Marmara	
2:45 PM	Rao Shihang, Effect of solid surface properties on CO2 hydrate formation and propagation	Yan Lifei, Pore-Scale Insights into CO2 Hydrate Kinetics	Shin Yebom, Synthesis and characterization of HFC-125/CO2 binary hydrates as advanced hydrate-based fire extinguishing agent	Naito Kazuya, Drilling results of the R&D project for methane hydrate in sand during the Phase Four period	
3:00 PM	Blas Felipe J., Homogeneous nucleation rate of carbon dioxide hydrate formation under experimental conditions from Seeding simulations	Hiomasa Iwai, Numerical Modeling of CO2-Hydrate Formation in Porous Deep-Seabed Ground using a Thermo-Hydro-Chemical Coupled Analysis	Lunxiang Zhang, One Stone, Three Birds: An Integrated Clathrate Hydrate Process for Simultaneous Ion Rejection and Isotopic Contaminant Capture in Nuclear Waste Treatment	Harigaya Shun, Rock physics model for hydrate morphology identification: A case study from the offshore Shima peninsula	
3:15 PM	Jesús Algaba Fernández, Unveiling the CO2 Hydrate Phase Diagram from Computer Simulation: Locating the Hydrate-Liquid-Vapor Coexistence and its Upper Quadruple Point	Terzariol Marco, Preliminary geomechanical assessment of heterogeneous CO2 hydrate formation and accumulation in sandy sediments (CO2BHYS)	Salehy Yasmine, Multi-performance assessment of hydrate slurries for secondary refrigeration in a modelled industrial case study	Kim Sungil, Hybrid artificial intelligence-driven feature extraction and visualization of X-ray CT images for physically interpretable gas hydrate dissociation analysis	
3:30 PM	coffee break + Posters				
	session 1	session 4	session 5	session 3	
4:30 PM	Moridis George, The hydrate clathrate impediment to molecular diffusion of CO2 into the aqueous phase	Al-Tawil Noor, Coupled In-Situ Micro-Raman and Optical Microscopy Investigation into Hydrate-Based CO2 Capture from Gaseous Effluents	Osswald Véronique, CO2 Hydrate effects on Vapor-Liquid Mass transfer: Parametric Study in a stirred tank reactor	Maromi Sato, "Sedimentary Facies Analysis Using Well Data and 3D Seismic Data: A case study from the offshore Shima Peninsula"	
4:45 PM	Mukaida Takeshi, The crystal morphology of carbon dioxide clathrate hydrate in quinine aqueous solution	Du Yilin, Growth characteristics and occurrence patterns of CO2 hydrate crystals at the microscale	Veluswamy Hari Prakash, Investigation of mixed hydrogen hydrate formation kinetics facilitated by dual promoter system	Agnissan Art-Clarie Constant, Mimicking natural gas hydrate formation in silty clay sediments: effect of clay mineralogy, water salinity and gas flowrate	
5:00 PM	Chen Jing, Thermodynamic Dominance of Pressure and Kinetic Enhancement of Stirring for Hydrate-Based CO2 Capture	Zhou Shouwei, Mechanistic Insights and Field Demonstration of Deep-Sea CO2 Solidification Storage	Kim Kwangbum, Rapid and High-Capacity Methane Storage in Clathrate Hydrates via Compositionally Tuned Ternary Emulsions	Agnes Merin, Sediment-Fluid Controls on Gas Hydrate Dissociation: Implications for Climate Change	

5:15 PM	Ciulla Michele, Kinetic promoters for CO ₂ /CH ₄ separation by clathrate hydrates: insights from in-situ Raman spectroscopy	Kanaujiya Ramkhelavan, Exploring the Impact of Glucosides on the Kinetics of CO ₂ Hydrate Formation and Growth	Dhamu Vikas, Pilot-Scale Evaluation of TBAB Semiclathrate Hydrate Slurry as a Thermal Energy Carrier	Haines Seth, Comparing sediment controls on gas hydrate saturation in marine and permafrost settings	
5:30 PM	Hamdi Zakaria, Epoxycyclopentane as a Novel Thermodynamic Promoter for Flue Gas Hydrate Formation under Mild Conditions	Jiang Lanlan, Enhancing CO ₂ Hydrate Formation and Pore Structure via L ^α -Methionine for Efficient Marine Sequestration	Victoire Meko Fotso, Effect of Promoters on Hydrogen Storage and Diffusion in Clathrate Hydrates	Xu Xiaolei, Mineralogical Controls on Methane Hydrate Enrichment in Fine-Grained Sediments	
5:45 PM	Sadain Zafar, Raman characterization of microscale phase distributions and water redistribution during CO ₂ , hydrate formation in saline systems using HP micro-capillaries	Lou Benkui, Numerical Investigation of Long-term CO ₂ Storage Efficiency and Plume Migration in Marine Sediments via Hydrate Formation	Padmanabhuni Niharika, Kinetic Evaluation and Selection of a Dual Promoter System for Methane Gas Hydrate Formation Under Unstirred Conditions	Dhamu Vikas, Laboratory Demonstration of Hydrate-Based CO ₂ Sequestration in Deep-Ocean Sediment	
6:00 PM	end of day + Gala Dinner at 7 pm (shuttle bus at 6:30 pm)				

Friday				
	room 1 session 1	room 2 session 4	room 3 session 5	room 4 session 3
8:00 AM	Huang Yuhang, Effects of Clay Confinement and Salinity on Methane Hydrate Formation and Dissociation Kinetics	Ma Yunhan, Rapid CO2 Storage with Enhanced Gas Uptake via Amino-Acid-Modified Active Ice Hydrates	Pandey Gaurav, Enhancement of CO2 Gas Hydrate Formation Kinetics for Cold-Region Storage Applications	Schicks Judith M., Interactions between simple and mixed gas hydrates and H2: Mimicking natural processes in the lab
8:15 AM	Xu Zelin, Understanding the High Permeability Characteristics of Hydrate-Bearing Porous Media: Natural versus Artificial Aspects	Kushwaha Omkar, Thermodynamic Exploitation of Arctic Environments for Stable CO2 Storage by Clathration of Integrated Industrial Point Source Emissions Under Permafrost Geochemistry for Economical Gigaton Carbon Management	Ling Zheng, MXene as the promising promoter for gas hydrate formation	Khor Siakfoo, "Decoupled Thermodynamic and Kinetic Effects of Wax and Demulsifier on Gas Hydrate Formation in Cold Flowing Oil Wells"
8:30 AM	Zhang Qi, Hybrid explicit-implicit FEM for porous media multiphase flow with possible solid-phase decomposition	Prosmi Rita, Quantum-Chemical Insights into Multi-Occupancy of CO2 in Clathrate in Clathrate Hydrates : from Single Cages to Crystals	Maynor Karey, Process intensification to enable CO2 hydrates-based seabed carbon sequestration	Song Ziyang, Pore-scale analysis of CO2 hydrate kinetics from liquid CO2 using high-pressure microfluidics coupled with in-situ Raman
8:45 AM	Fang Bin, Electrical Double-Layer Effects on Hydrate Dissociation from Static Confinement to Flowing Clay Nanopores	Steinsbø Marianne, CO2-hydrate sealing mechanisms in sand packs-visualization and measurements using Magnetic Resonance Imaging	Wang Shuai, Engineering Monolithic Porous Substrates for Efficient Hydrate-Based Gas Storage: Insights from Surface Chemistry and Structural Optimization	Kumar Aditya, Extreme Variability in Marine Hydrate Stability
9:00 AM	Weng Jilun, Statistical Investigation of Physical Properties of Digital Sediment Cores Generated by a Stacking Algorithm	Wang Tian , Organic Magnetic Nanoparticles-Mediated Water Activation for Rapid and Dense Hydrate Formation: Implications for Advanced CO2 Capture and Storage	Babu Ponnivalavan, From Lab to Pilot Scale: A Commercial Pathway for Hydrate-Based Carbon Capture	Kou Xuan, Real-time 3D Quantitative Phase Imaging of Gas Hydrate Dynamics: A New Tool for Pore-Scale Analysis in Geo-Energy Applications
9:15 AM	Chen Qiang, Study on Electrical Response Mechanisms and Resistivity Imaging Models during Fluid-Solid Coupled Processes in Hydrate-Bearing Reservoirs	Yang Ziming, Optimizing reservoir seepage capacity and hydrate distribution in the presence of APG for sub-seabed CO2 storage	Park Minseo, Gas hydrate-based CO2 underground sequestration: physicochemical interactions among multiple trapping mechanisms	Burwicz-Galerne Ewa, New Global Modeling Assessment of the Gas Hydrate Stability Zone
9:30 AM	coffee break + Posters			
10:30 AM	session 1 Zhu Xiangyu, Depicting gas hydrate and shallow gas distribution using a new attenuation-based seismic attribute	session 4 Wapperom Michiel, Extending CH4/CO2 hydrate simulations beyond pure water: salinity and inhibitor effects	session 5 Khan Muhammad Saad, A Gibbs Energy-Based Correlation with Molecular Parameters for Predicting Hydrate Equilibrium in Hydrogen-Blended Natural Gas Pipeline	session 4 Wan Yizhao, Impact of Near-Wellbore Formation Damage on Gas Production from Natural Gas Hydrate Reservoirs: An Integrated Experimental and Numerical Study
10:45 AM	Marin Castano Eliana, Microstructural Mapping from cryo-SEM of W/O Emulsions and Gas Hydrates	Skrzyńska Katarzyna, CH4-CO2-H2O Ternary System at High Pressure: A Synchrotron Single-Crystal X-ray Diffraction Study	Omran Ahmed, Techno-Economic Assessment of Biomethane Storage Pathways: Compressed, Liquefied, and Hydrate-Based Solutions	Peng Saiyu, Integrated Reservoir Fracturing and Overburden Reinforcement for Enhancing Marine Gas Hydrates Production: Experiments and Simulations
11:00 AM	Dnyaneshwar R. Bhawangirkar, Promotion and inhibition effect of 1,3-dioxolane on CH4 hydrate equilibrium pressures and hydrate cage occupancies	Gang Li, Full Lifecycle of Methane Hydrate in Porous Media at Laboratory and Field Scales	Boumaiza Houaria, Quantification and 3D Visualization of xenon Hydrates in Model and Real Food Systems	Shanker Krishna, Rheological and stability performance of amino acid-modified guar gels for gas hydrate reservoir stimulation
11:15 AM		Lee Yohan, In-Situ Raman Spectroscopic and Neutron Diffraction Insights into Methane Hydrate Growth in Clay Sediments		Wang Zirui , Small-strain mechanical behavior of hydrate-bearing caplayer of shallow gas reservoir LS 36-1 in the South China Sea
11:30 AM		Nakamura Yuna, Numerical Investigation of Methane Hydrate Morphology Under the Sea Floor		Wu Shiguo, Shallow Fluid Flow System and Its Control on Gas Hydrate Accumulation in the Qiongdongnan Basin, South China Sea
11:45 AM		Ismail Nur Aminatulmimi , Perspective on the use of activated carbon and metal-organic framework as gas hydrate promoter for hydrate-based gas separation		
12:00 PM	END of congress, closing speech			