11th International Conference on
Gas in Marine Sediments

4-7 September 2012

Nice, France

Congress Schedule
Information, and Abstracts

Host
The conference is hosted by the Centre National de la Recherche Scientifique (CNRS), France.

Local Organizing Committee
Catherine Pierre
Giovanni Aloisi
Ioanna Bouloubassi
Sébastien Duperron
Jeffrey Poort
Jean Mascle
Sébastien Migeon
Stéphanie Dupré
Germain Bayon
Karine Olu-Le Roy
Laurent Toffin
The GIMS11 conference will be held at “la Maison du Séminaire”
29 Boulevard Franck Pilatte, 06300 Nice (http:www.maisonduseminaire.eu)

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11th International Conference on
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4-7 September 2012
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Program
Lists of oral and poster presentations
Program of the conference

Tuesday 4th September 2012

9h00-10h00  Registration of participants
10h00-10h15  welcoming address
10h15-10h30  commemoration of Michael Ivanov by John Woodside
10h30-11h00  coffee break
11h00-12h30  **session: geophysical and geological expression of gas structures**
  conveners: Jean Masce and Daniel Praeg
  11h00-11h30  **Invited talk: David Scholl**
               Scholl D, Wood W, Barth GA, Childs JR: THE BERING SEA BASIN: NEW DRILLING AND GEOPHYSICAL OBSERVATIONS AND AN IMPORTANT CONTRIBUTION OF THERMOGENIC METHANE TO INTERSTITIAL DEPOSITS OF METHANE HYDRATE
  11h30-11h45  Gafeira J, Long D, Diaz-Doce D: WHAT CAN WE FOUND OUT FROM THE SEMI-AUTOMATED CHARACTERISATION OF 4150 POCKMARKS WITHIN THE WITCH GROUND BASIN (CENTRAL NORTH SEA)?
  11h45-12h00  Ho S, Imbert P, Cartwright J: A CASE STUDY OF FLUID VENTING STRUCTURES AND AMPLITUDE ANOMALIES AS INDICATORS HYDROCARBON LEAKAGE IN INTERPLAY WITH GEOLOGICAL SETTING, NEogene-QUATERNARY INTERVAL OF LOWER CONGO BASIN
  12h00-12h15  Veloso M, De Batist M, Mienert J, Greinert J: SPATIAL DISTRIBUTION ANALYSIS AND HYDROACOUSTIC MONITORING OF A GAS SEEP AREA OFFSHORE SVALBARD (~ 78 N)
  12h15-12h30  García-Gil S, Muñoz Sobrino C, Martinez-Carreño N, de Blas E: SHALLOW GAS AND STRATIGRAPHIC ARCHITECTURE OF THE SEDIMENTARY RECORD FROM AN ENCASED VALLEY: RIA DE VIGO
  12h30-14h00  lunch
  14h00-15h45  **Session: imaging subseafloor gas structures by seismic studies**
  conveners: Marc De Batist and David Scholl
  14h00-14h30  **Invited talk: Jean Masce**
  Masce J, Masce G, Camera I, Brosolo L: MUD VOLCANOES AND FLUID SEEPAGE IN THE MEDITERRANEAN DOMAIN
  14h30-14h45  Gafeira S, Long D, Diaz-Doce D: SEMI-AUTOMATED CHARACTERISATION OF SEABED POCKMARKS FROM MULTIBEAM BATHYMETRIC DATASETS
  14h45-15h00  Wenau S, Spiess V, Fekete N: SEISMIC AND ACOUSTIC INVESTIGATION OF ACTIVE GAS SEEPAGE SITES CONTROLLED BY SALT TECTONICS IN THE LOWER CONGO BASIN
  15h00-15h15  Klaucke I, Bialas J, Klaeschen D, Zander T, Papenberg C, Dumke I, Koch S: SUBSURFACE FLUID-FLOW PATTERNS WITHIN THE GAS-HYDRATE STABILITY ZONE OF THE BLACK SEA


15h45-16h15 coffee break

16h15-18h00 Session: seafloor emissions to the water column and the atmosphere
 conveners: Ingo Klaucke and Soledad Garcia Gil

16h15-16h45 Invited talk: Louis Géli

Géli L and Marmara-DM group: SUBMARINE INVESTIGATIONS OF THE SUBMERGED SECTION OF THE NORTH ANATOLIAN FAULT WITHIN THE SEA OF MARMARA OPENS NEW PERSPECTIVES FOR THE DEEP SEAFLOOR MONITORING OF EARTHQUAKE HAZARDS

16h45-17h00 Hsu SK, Liao YC, Wang SY, Yang TF, Tsai TF, Chen SC: MECHANISM OF GAS EMISSIONS OFF SW TAIWAN

17h00-17h15 Egorov AV, Nigmatulin RI, Rimsky-Korsakov NA, Rozhkov AN, Sagalevich AM, Chernyav Es: TRANSFORMATION OF DEEP-WATER METHANE BUBBLES INTO HYDRATE POWDER AND HYDRATE FOAM


17h30-17h45 Leifer I, Solomon E, Levine J, Kastner M, Rehder G: DEEP SEEP BUBBLES REACH FOR THE SKIES: GROWING EVIDENCE OF BUBBLE-MEDIATED METHANE/HYDROCARBON TRANSFER FROM DEEP WITHIN THE HYDRATE STABILITY FIELD TO THE ATMOSPHERE

17h45-18h00 Ulyanova M, Sivkov V, Kanapatskiy T, Pimenov N: METHANE DIFFUSIVE FLUX IN THE SHALLOW LAGOONS OF THE SE BALTIC SEA

19h00-20h00 ice breaker

Wednesday 5th September 2012

9h00-10h30 Session: subsurface fluid flow, cold seeps, geochemical and thermal gradients
 conveners: Jeffrey Poort and Elena Suetnova

9h00-9h30 Invited talk: Tatiana Pogodaeva

Pogodaeva T, Zemskaya TI, Khlystov OM: PRELIMINARY ESTIMATE OF DISSOLVED COMPONENTS FLOWING THROUGH WATER-BOTTOM INTERFACE AT SITES OF OIL AND GAS DISCHARGE IN LAKE BAIKAL


9h45-10h00 Lavrenova E, Kruglyakova M, Gorbuniv A: DISTRIBUTION OF LIGHT HYDROCARBONS IN MARINE SEDIMENTS (RESULTS OF REGIONAL STUDIES, SOUTH RUSSIA)
10h00-10h15 Malakhova T: METHANE DYNAMICS IN SEVASTOPOL BAY (BLACK SEA)

10h15-10h30 Imbert P: GAS IN MARINE SEDIMENTS: WHAT MAKES IT DIFFERENT?

10h30-11h00 coffee break

11h00-12h30 session: regional studies on gas and gas hydrate distribution and quantification
conveners: Patrice Imbert and José Mogollon

11h00-11h30 Invited talk: Joerg Bialas

Bialas J and teams of cruises SO-191 and SO-214: 3D SEISMIC AND MULTIDISCIPLINARY INVESTIGATIONS OF COLD SEEPS ALONG THE HIKURANGI MARGIN, NORTH ISLAND, NEW ZEALAND

11h30-11h45 Cheng WB, Shih TY, Lin SS, Chen WSC: VELOCITY STRUCTURE AND GAS HYDRATE SATURATION ESTIMATION ON ACCRETIONARY PRISM OFF SW TAIWAN INFERRED FROM P-S CONVERTED PHASES

11h45-12h00 Matsumoto R, Ochiai H, Tomaru H, Hiromatsu M, Oi T: FREE GASES IN GAS HYDRATE MOUNDS AS MEASURED BY TDR, JOETSU BASIN, EASTERN MARGIN OF JAPAN SEA

12h00-12h15 Yang TF, Chuang PC, Chen CW, Chen NC, Lin S, Wang Y, Chung SH, Chen PC: GAS COMPOSITION OF CORED SEDIMENTS FROM GAS HYDRATE POTENTIAL AREA OFFSHORE SW TAIWAN

12h15-12h30 Casenave V, Imbert P, Gay A: THE DISTRIBUTION OF BOTTOM-SIMULATING REFLECTORS IN THE LOWER CONGO BASIN: IMPLICATIONS ON HYDRATES FORMATION PROCESSES AND RELATIONSHIPS WITH DEEPER STRUCTURES

12h30-14h00 lunch

14h00-16h00 Session: regional studies on gas and gas hydrate distribution and quantification
conveners: Ryo Matsumoto and Ewa Burwicz

14h00-14h30 Invited talk: Hitoshi Shoji

Shoji H, Takahashi N, Jin YK, Obzhirov A, Baranov B: INTERNATIONAL COLLABORATION EFFORTS OF SUBMARINE GAS HYDRATE STUDIES OFFSHORE SAKHALIN, OKHOTSK SEA

14h30-14h45 Nengkoda N, Prasetyo I, Suryono S, Amijaya H, Tohidi B: POTENTIAL RISK IDENTIFICATION FROM GAS HYDRATE PRODUCTION: CASE STUDY INDONESIA

14h45-15h00 Fukumoto A, Sato T: STUDY ON MORPHOLOGY OF THE METHANE HYDRATE IN POROUS MEDIA

15h00-15h15 Chernyavski V: GAS RELEASE FROM SATURATED FLUID DURING FILTRATION IN A PORE; LABORATORY EXPERIMENT AND IMPLICATION TO NATURAL ENVIRONMENT OF MARINE SEDIMENTS

15h15-15h30 Suetnova E: PECULIARITY OF GAS HYDRATE ACCUMULATION HISTORY CAUSED BY DIFFERENCE IN RHEOLOGICAL PROPERTIES OF MARINE SEDIMENTS


15h45-16h00 coffee break

16h00-16h30 Presentation of the poster session
16h30-18h00  Poster session
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Thursday 6th septembre 2012

9h00-10h30  Session: gas hydrates modeling, biogeochemical processes

conveneers: Giovanni Aloisi and Vladimir Chernyavski

9h00-9h30  Invited talk: Ewa Burwicz

Burwicz E, Rüpke LH, Wallmann K: A NEW NUMERICAL REACTION-TRANSPORT MODEL OF MARINE GAS HYDRATE DEPOSITS

9h30-9h45  Sa JH, Lee KH: INFLUENCE OF HYDROPHOBICITY ON THE PERFORMANCE OF INHIBITORS FOR CARBON DIOXIDE HYDRATE FORMATION

9h45-10h00  Lin S, Kalmychkov V, Cheng W, Hsu CW, Lim Y, Yang TF, Pogodaeva T: SULFUR ISOTOPIC VARIATION AND ROLE OF SULFATE IN THE FRESHWATER METHANE RICH LAKE BAIKAL CARBON/SULFUR CYCLING

10h00-10h15  Mogollón JM, Kasten S: CONSTRAINING THE METHANE CYCLE THROUGH CARBON ISOTOPE MODELS


10h30-11h00  coffee break

11h00-12h30  Session: biogeochemical processes, authigenic carbonates

conveneers: Sylvie Gaudron and Karine Olu

11h00-11h30  Invited talk: Ivano Aiello


11h30-11h45  Blouet J, Imbert P, Ho S: MORPHOLOGY VARIATIONS OF METHANOGENIC CARBONATES IN RELATIONSHIP WITH THEIR GENESIS MECHANISMS, VOCONTIAN BASIN, FRANCE: A MULTIDISCIPLINARY STUDY

11h45-12h00  Capozzi R, Dinelli E, Negrì A, Montagna P, Oppo D, Picotti V, Scarponi D, Taviani M: SHALLOW-WATER HYDROCARBON SEEPPAGES IN THE PLEISTOCENE ARGILLE AZZURRE FORMATION: THE CHIMNEYS FIELD OF ENZA RIVER, NORTHERN APENNINES, ITALY

12h00-12h15  Pierre C, Bayon G, Blanc-Valeron MM, Mascele J, Dupré S: AUTHIGENIC CARBONATES FROM CHEOPS MUD VOLCANO - MENES CALDERA (NILE DEEP SEA FAN-EASTERN MEDITERRANEAN)

12h15-12h30  Crémière A, Bayon G, Ponzevera E, Pierre C: PALEO-ENVIRONMENTAL CONTROLS ON METHANE DERIVED CARBONATES AUTHIGENESIS IN THE SEA OF MARMARA

12h30-14h00  Lunch

14h00-16h00  Session: biogeochemical processes, biology, microbiology
conveners: Ioanna Bouloubassi and Ivano Aiello

14h00-14h30  Invited talk: Sébastien Duperron


14h30-14h45  Olu K, Caprais JC, Marcon Y, Ondrěas H, De Prunelé A, Ruffine L, Bayon G, and the WACS cruise scientific party: VARIABILITY OF CHEMOSYNTHETIC ASSEMBLAGES AMONG AND WITHIN POCKMARKS OF GULF OF GUINEA

14h45-15h00  Gaudron S, Rodrigues C, Maros F, Laming S, Pierre C, Duperron S: COLONIZATION OF ARTIFICIAL SUBSTRATES (CHEMECOLIS) IN DEEP-SEA EUROPEAN REDUCING HABITATS: BIODIVERSITY, SYMBIOSIS AND GEOLOGICAL FACTORS

15h00-15h15  Dachnova M, Kruglyakova R, Zheglova T, Mozhegova S, Shevtsova N: THE EXAMPLE OF HIGH MOLECULAR WEIGHT HYDROCARBONS STUDY BY SURFACE GEOCHEMICAL EXPLORATION WITHIN OFFSHORE AREAS (BLACK SEA, YENISEISK AND KHATANGA GULFS OF ARCTIC SEAS)


15h30-15h45  Lomakina AV, Morozov IV, Pogodaeva TV, Zemskaya TI: STUDY ON DIVERSITY OF BACTERIA PARTICIPATING IN CYCLES OF METHANE AND AMMONIUM AT SITES OF HYDROCARBON DISCHARGE IN LAKE BAIKAL

15h45-16h15  General discussion- propositions for the location of the next conference GIMS12

16h15-16h45  coffee break

16h45-18h00  Poster session

20h00  Conference dinner at “la Maison du Séminaire”

Friday 7th September 2012

9h00-18h00  Excursion to the Monaco Oceanographic Museum
Lists of oral and poster presentations (alphabetic order)
Oral presentations


Bialas J and teams of cruises SO-191 and SO-214: 3D SEISMIC AND MULTIDISCIPLINARY INVESTIGATIONS OF COLD SEEPS ALONG THE HIKURANGI MARGIN, NORTH ISLAND, NEW ZEALAND

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Yang TF, Chuang PC, Chen CW, Chen NC, Lin S, Wang Y, Chung SH, Chen PC: GAS COMPOSITION OF CORED SEDIMENTS FROM GAS HYDRATE POTENTIAL AREA OFFSHORE SW TAIWAN
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Brumby PE, Sato T, Jiro Nagao J, Temma N, Narita H: A SIMULATION STUDY OF EROSION AT GRANULAR AND PORE SCALES IN MARINE SEDIMENTS USING COUPLED LBM AND DEM CODES

Capozzi R, Negri A, Taviani M: CARBONATE CONDUITS LINKED TO HYDROCARBONS ENRICHED SEEPAGES


Chen SC, Hsu SK, Tsai CH, Wang Y, Chung SH, Chen PC, Liu CS, Yang TF: ACTIVE MUD VOLCANOES AND GAS SEEPS IN THE NEAR SHORE OF SW TAIWAN

Couillard M, Berndt C, Dumke I, Gay A, Imbert P: GEOPHYSICAL CHARACTERIZATION OF A GIANT FLUID PIPE IN THE NORWAY BASIN

Crémière A, Aloisi G, Pierre C: A MODELLING APPROACH FOR A BETTER UNDERSTANDING OF FACTORS CONTROLLING THE CARBON ISOTOpic COMPOSITION OF AUTHigenic CARBONATES

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Duleba W, Teodoro AC, Silas Gubitoso S, Braga Silva J, Rocha-Campos AC: SEDIMENT GEOCHEMISTRY AND BENTHIC FORAMINIFERA DISTRIBUTION IN AN ACTIVE METHANE SEEP ENVIRONMENT, BAIA DE BERTODANO, SEYMOUR (MAMBIKO) ISLAND, ANTARTIC: PRELIMINARY RESULTS


Feng D, Roberts H, Joye S, Heydari E: BRINE INDUCED LOW-MAGNESIUM CALCITE FORMATION AT COLD SEEPs

Gafeira J, Long D: DOES SIZE MATTER? ON THE IMPORTANCE OF GRAIN SIZE IN THE MORPHOLOGY OF POCKMARKS FROM THE ATHENA SITE (CENTRAL NORTH SEA)

Guliyev I, Huseynov D: FLUID DYNAMICS AND SEISMISITY OF THE CASPIAN SEA


Ho S, Imbert P, Blouet JP: SEEP CARBONATES: SEISMIC EXPRESSION VS. OUTCROP OBSERVATIONS

Hsu CW, Lin S, Lim YC, Yang TF, Hsieh IC: ANAEROBIC METHANE OXIDATION AND ITS INFLUENCES ON THE SULFATE REDUCTION AND SULFUR ISOTOpic COMPOSITIONS
Ikegawa Y, Miyakawa K, Suzuki K, Tanaka S, Kubota K: EXPERIMENTAL RESULTS FOR ENHANCED RECOVERY OF METHANE HYDRATE USING EXOTHERMIC HEAT OF CO₂ HYDRATE

Imbert P, Ho S, Riboulot V, Cauquil E: COLLAPSED FUNNELS OFFSHORE AUSTRALIA: EVIDENCE FOR PAST HYDRATE POCKMARKS?

Jassim E: NUCLEATION AND ACCUMULATION PHENOMENA OF HYDRATE IN OIL AND GAS PIPELINES


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Koch S, Crutchley G, Dumke I, Bialas J, Klaeschen D, Klaucke I, Papenberg C: MULTISCALE STUDY OF SEEP STRUCTURES — OPOUWE BANK, OFFSHORE NEW ZEALAND

Leon R, Somoza L, T. Medialdea T, Vázquez JT, Gonzalez FJ: MORPHO-STRUCTURAL FEATURES OF EPISODIC MUD VOLCANISM IN THE GULF OF CÁDIZ.

Long D, Gafeira J, Howe J, Dove D: VARIATION IN POCKMARKS IN COASTAL SETTINGS WEST OF SCOTLAND

Lorenson T: METHANE AND CARBON DIOXIDE GENERATED FROM NATURAL OFFSHORE ASPHALT SEEPAGE IN SOUTHERN CALIFORNIA


Marcon Y, Allais AG, Bohrmann G, Olu K: TEMPORAL EVOLUTION OF THE MACRO-FAUNAL DISTRIBUTION AT THE REGAB POCKMARK IN THE NORTHERN CONGO FAN, BASED ON VIDEO-MOSAIC ANALYSES

Martínez-Carreño N, García-Gil S, de Blas E, Muñoz Sobrino C: MONITORING POCKMARKS IN AN ENCASED VALLEY (RÍA DE VIGO, NW SPAIN)


Muñoz Sobrino C, Castro Y, Martínez-Carreño N, de Blas E, García-Gil S: RECENT RESERVOIRS OF METHANE INSIDE SAN SIMON BAY (RÍA DE VIGO, NW IBERIA): ASSESSING ITS SEDIMENTARY ENVIRONMENTS AND AGES OF FORMATION

Pimenov N, Malakhova TV, Artemov Yu G, Kanaptsky TA, Malakhova LV: BIOGEOCHEMICAL CHARACTERISTICS OF METHANE DISTRIBUTION IN SEDIMENT AT THE GAS SEEPAGE SITE OF SEVASTOPOL COASTAL AREA


Sato J, Kiyono F, Sato T: COHESION FORCE MEASUREMENT OF METHANE HYDRATE

Szpak MT, O'Reilly S, Monteys X, Kelleher BP: SEEPAGE AND GAS FEATURES IN DUNMANUS BAY, IRELAND


Torii H, Kano Y, Fukumoto A, Sato T: LATTICE BOLTZMANN SIMULATION OF GAS-WATER TWO-PHASE INTERFACE AND ESTIMATION OF RELATIVE PERMEABILITY IN SPHERICAL GRAIN SEDIMENT

Tsai CH, Lin SS, Lin SY, Hsu SK, Chen SC: HIGH-RESOLUTION SEISMIC STRUCTURES LINKED TO AN ACTIVE MUD VOLCANO OFF SW TAIWAN

Wenau S, Spiess V, Fekete N: 3D MULTICHANNEL SEISMIC INVESTIGATION OF ACTIVE POCKMARKS IN THE LOWER CONGO BASIN

Xing J, Spiess V: INTERACTION OF GAS MIGRATION, HYDRATE FORMATION AND SEDIMENTARY PROCESSES IN THE KERCH FLARE AREA, BLACK SEA

Zemskaya TI, Shubenkova OV, Maksimenko SY, Pogodæva TV, Zakharenko AS, Lomakina AV, Alexeeva YM, Khlystov OM: STRUCTURE OF JELLYLIKE BIOFILMS NEAR THE SITE OF METHANE SEEP ST. PETERBURG (CENTRAL BAIKAL