



## 4th IGCP 526 meeting “Risks, Resources, and Record of the Past on the continental shelves”

### CONFERENCE PROGRAM

#### 28<sup>th</sup> September

09:00-09:30 Registrations

09:00-09:30 **Welcome allocation by a University of Vigo representative and Dr. Michel Michaelovitch de Mahiques (IGCP 526 co-leader)**

09:30-10:30 Key note:  
**Variability of Late Quaternary stratigraphy and present sedimentary processes on the Italian Shelves.**  
Dr. Francesco L. Chiocci (Prof. Earth Science, University of Rome, ITALY)

#### Coffee break

#### **SESSION 1** *Records and processes related to climate change and the carbon cycle* *Conveners: ALLAN CHIVAS/FEDERICO VILAS*

11:00-11:15 A HIGH-RESOLUTION HOLOCENE RECORD OF LIPID BIOMARKERS ON THE SOUTHERN BRAZILIAN SHELF (Bícego, M.C. et al.)

11:15-11:30 THE ONSET OF THE PLUME OF THE RÍO DE LA PLATA ON THE SOUTHERN BRAZILIAN CONTINENTAL SHELF DURING THE HOLOCENE (Mahiques et al.)

11:30-11:45 SEDIMENTARY PROCESSES ON NW IBERIAN CONTINENTAL SHELF SINCE THE LITTLE ICE AGE (Martins et al.)

11:45-12:00 THE VARIABILITY OF THE MARINE RADIOCARBON RESERVOIR EFFECT IN SOUTHERN IBERIAN COAST (Matos and Monge)

12:00-12:15 MAGNETIC DETECTION OF SUBMILLENNIAL CLIMATIC VARIABILITY IN HETEROGENEOUS CONTINENTAL SHELF SEDIMENTS AFFECTED BY REDUCTIVE DIAGENESIS OFF NW IBERIA (Mohamed et al.)

12:15-12:30 APPLICABILITY OF RADIOACTIVE ISOTOPES TO OCEANOGRAPHIC STUDIES IN THE BRAZILIAN SOUTHEASTERN CONTINENTAL SHELF (Figueira et al.)

12:30-13:00 Discussion

#### LUNCH

15:00-16:00 Key note:  
**An environmagnetic multiproxies approach to the study of the Galician continental shelf**  
Dr. Daniel Rey (Prof. Marine Geology, University of Vigo, SPAIN)

#### Coffee break and poster session

#### **SESSION 2** *Identification and assessment of marine geohazard* *Conveners: LINDSAY COLLINS /BELÉN RUBIO*

16:30-16:45 THE RESPONSE OF BENTHIC FORAMINIFERA TO POLLUTION AND ENVIRONMENTAL STRESS (Lino et al.)

16:45- 17:00 DISCOVERY OF A LARGE-SCALE SUBMARINE SLIDE COMPLEX ON THE NORTHEAST NEWFOUNDLAND SHELF (Shaw et al.)

17:00-17:15 BENTHIC FORAMINIFERA AS A PROXY FOR ENVIRONMENTAL HAZARD ASSESSMENT IN RIA DE AVEIRO, N PORTUGAL (Teodósio et al.)

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**17:15-17:30** AN APPLICATION OF THE ITRAX CORE SCANNER TO CONTAMINATED LAGOON SEDIMENTS (RIA DE AVEIRO, PORTUGAL) (Videira et al.)

**17:30-18:00** Discussion

#### 29th September

**09:30-10:30**

Key note:

#### **The continental shelf of Catalonia: A catalogue of natural and anthropogenic impacts**

Dr. Miquel Canals (Prof. Marine Geology, Univ. Barcelona, SPAIN)

#### **Coffee break and poster session**

#### ***Geological processes controlling continental shelf morphology and stratigraphy***

#### **SESSION 3**

***Conveners: FRANCESCO CHIOCCI/DANIELREY***

**11:00-11:15**

TERTIARY TO QUATERNARY EVOLUTION OF SCOTT REEF, AUSTRALIA'S NORTH WEST SHELF (Collins et al.)

**11:15-11:30**

LATE QUATERNARY SEDIMENTATION ON THE NARROW SHALLOW SHELF OFF EASTERN BRAZIL (Dominguez et al.)

**11:30-11:45**

MORPHOLOGY AND SEDIMENTARY CHARACTERISTICS OF THE SOUTHEASTERN BRAZILIAN RÍAS (Mahiques et al.)

**11:45-12:00**

GEOLOGICAL PROCESSES AND SEDIMENT CHARACTER OF THE CONTINENTAL SHELF OFF GANGA DELTA, BAY OF BENGAL (Saha et al.)

**12:00-12:15**

INCISED VALLEYS OF THE BRAZILIAN CONTINENTAL SHELF ADJACENT TO RIO GRANDE DO NORTE STATE, NE BRAZIL (Vital et al.)

**12:15-12:30**

TESTING RELATIVE SEA-LEVEL CHANGE SIMULATION: A MARINE GEOPHYSICAL PERSPECTIVE (Thebaudeau et al.)

**12:30-12:45**

SHELF-OCEAN MATERIAL EXCHANGE INFLUENCING THE ATLANTIC CHEMICAL COMPOSITION OFF NW IBERIAN MARGIN SINCE THE LAST GLACIATION (Silva et al.)

**12:45-13:00**

Discussion

#### **LUNCH**

**15:00-16:00**

Key note:

#### **Risks, Resources and Record of the Past in the South Portuguese Margin and the Gulf of Cadiz**

Dr. Luis Pinheiro (Prof. Marine Geology, University of Aveiro, PORTUGAL)

#### **Coffee break and poster session**

#### **SPECIAL SUBJECT**

#### ***Seafloor Prodelta Ondulations as syn-sedimentary creeps or hyperpicnal flows products***

***Conveners: VIRGINIA MARTINS/J. RODRÍGUEZ VIDAL***

**16:30-16:45**

CONTINENTAL SHELF SEABED UNDULATIONS: A CONTRIBUTE TO THEIR GENESIS DEBATE BASED ON GEOTECHNICAL AND MORPHOMETRIC CHARACTERS OF SELECTED ITALIAN CASES (Chiocci et al.)

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**16:45- 17:00** THE ROLE OF SUBMERGED DUNE RIDGES FOR THE DISPERSAL OF LIMPOPO RIVER SEDIMENT ON THE SOUTHERN MOZAMBIQUE SHELF (Wenau et al.)

**17:00-17:15** GENETIC CONSIDERATIONS ABOUT PRODELTAIC UNDULATIONS OFF THE COASTS OF THE NORTHERN ALBORAN SEA MARGIN (Lobo et al.)

**SESSION 4** *Any other applied study in continental shelves of general interest to the society and the scientific community*

*Conveners: RENEE HETHERINGTON/ PAULA ÁLVAREZ-IGLESIAS*

**17:15-17:30** MODIS DATA PROCESSING FOR COASTAL AND MARINE ENVIRONMENT MONITORING: A STUDY ON NORTHEAST BRAZILIAN CONTINENTAL SHELF (Amaro et al.)

**17:30- 17:45** CONDITIONING FACTORS OF FORAMINIFERA DISTRIBUTION IN SURFACE SEDIMENTS OF AVEIRO CONTINENTAL SHELF, N PORTUGAL (Martins et al.)

**17:45-18:00** VARIABILITY IN SEDIMENTATION RATES IN THE NORTHWESTERN IBERIAN MARGIN (Álvarez et al.)

### 30<sup>th</sup> September

### SOCIAL PROGRAM

**10:00-15:00**  
(provisional) Visit to Illas Atlánticas Natural Park

**17:00 -**  
(provisional) Visit to *Terras Gauda* winery

**20:30 -** Conference Dinner

### 1st October

**09:30-10:30** Key note:  
*Multi-proxy approach to deduce environmental changes in mixed marine and non-marine shelf sediments*  
Dr. Allan Chivas (Prof. Geoscience, University of Wollongong, Australia)

### Coffee break and poster session

**SESSION 5** *Reconstruction of features/processes/changes relevant to early human history and to human impact*  
*Conveners: PACO LOBO/KAIS MOHAMED*

**11:00-11:15** RECONSTRUCTING THE WATER-LEVEL CHANGES AND COASTLINE DEVELOPMENT OF THE BALTIC SEA IN THE NARVA-LUGA KLINT BAY AREA FOR THE LAST 13,300 YEARS (Rosentau et al)

**11:15-11:30** A PRELIMINARY CARTOGRAPHIC APPROACH TO RIA FORMOSA LAGOON SYSTEM PALEO-ENVIRONMENTS AND ORGANIC CARBON DISTRIBUTION (Sacadura et al.)

**11:30-11:45** MARINE ISOTOPE STAGE 3 – A HIGHLY VARIABLE CLIMATE WITNESSES THE EXPANSION OF HOMO SAPIENS AND THE DEMISE OF THE NEANDERTHALS (Hetherington)

**11:45-12:00** COASTAL UPWELLING VARIABILITY ALONG THE WESTERN IBERIAN PENINSULA FOR THE PERIOD 1950-2009 (Santos et al.)



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<b>12:00-12:15</b>	PRELIMINARY RESULTS OF SEDIMENTS DYNAMICS IN THE RÍA OF VIGO INFERRED FROM TWO MOORING STATIONS (Lersundi-Campistegui et al.)
<b>12:15-12:30</b>	Discussion
<b>12:30-13:00</b>	Closing session

#### LUNCH

#### Poster session

1. BIOMINERALIZATIONS AND BIOGEOCHEMISTRY OF IRON, CALCIUM AND SILICA IN THE PAMPEAN COASTAL PLAINS: THEIR ROLE IN THE PALEOENVIRONMENTAL CONDITION AND SEA LEVEL VARIATIONS DURING THE LATE CUATERNARY. (Osterrieth et al.)
2. FINGERPRINT OF MAGNETIC MINERAL EARLY DIAGENESIS IN RIA ENVIRONMENTS: POTENTIAL APPLICATIONS (Mohamed et al.)
3. CURRENT PATTERN INFLUENCE ON THE SURFICIAL SEDIMENT DISTRIBUTION OF THE EASTERN ALBORAN SEA SHELF (Bárcenas et al.)
4. THE RECORD OF THE AD 1755 ATLANTIC TSUNAMI ON THE GIBRALTAR COAST (Rodríguez-Vidal et al.)
5. MORPHODYNAMIC BEHAVIOR OF A TIDAL CHANNEL SYSTEM: BAHIA BLANCA ESTUARY, ARGENTINA (Vecchi et al.)
6. INNER-SHELF WAVE CLIMATE INFLUENCE ON THE FATE OF ACCIDENTAL MARINE SPILLS (Fernández-Fernández et al.)
7. PALAEOCLIMATIC CHANGES DURING THE LAST 3500 YEARS INFERRED FROM DIAGENETIC SIGNALS OF THE RIA DE MUROS SEDIMENTARY RECORD (Andrade et al.)
8. A SYNTHESIS OF MARINE SEDIMENTOLOGICAL DATA ON MOROCCAN CONTINENTAL MARGIN (Mhammdi et al.)