



SPLIT - CROATIA - 2017

4th COASTAL AND MARITIME MEDITERRANEAN CONFERENCE

CM²



UNION FOR THE MEDITERRANEAN



AERIAL VIEW OF DIOCLETIAN PALACE, SPLIT



CLIFF UNDER WAVES ATTACK, SPLIT

Mediterranean rocky coasts: Features, processes, evolution and problems



FAMOUS SPLIT WATERFRONT

Bulletin n° 3 – and Preliminary program

SPLIT - CROATIA

29th NOVEMBER – 1st DECEMBER 2017



PRESENTATION

Pôle Mer Méditerranée (Sea Innovation and Business Cluster) and the Centre Français du Littoral Promoters of the fourth Coastal & Maritime Mediterranean Conference \overline{CM}

In Split - Croatia
In collaboration with the Croatian partners

This conference follows up the third **Coastal & Maritime Mediterranean Conference** held in Ferrara (Italy) in 2015 planned by the Centre Français du Littoral and Pôle Mer Méditerranée but with a stress on corporation activity and intended for both French-speaking and non-French-speaking Mediterranean countries. The management of the meeting is conducted in parallel with the host country: Croatia in 2017.

This three-day **Mediterranean Conference** comprises two days of conference work including oral presentations and posters separated by one day dedicated to technical visits bearing on important coastal and maritime engineering projects and round tables or workshops.

The goals of this **Special Mediterranean Conference** are:

- up-to-date knowledge acquisition as far as coastal and maritime engineering in the **Mediterranean** is concerned;
- allowing exchange of ideas between specialists on concerned subjects;
- promoting comparison of analyses and experience between researchers and entrepreneurs;
- favoring contacts between decision-makers, corporations and researchers;
- presenting new material and techniques, together with the available documents (technical stands);
- diffusing information on pedagogical activities, research and training concerning coastal and maritime engineering **around the Mediterranean**;
- favoring network creation;
- promoting and implementing **Mediterranean research projects**;
- developing **Mediterranean inter-university and inter-corporation collaborations**.

THEMES OF INTEREST

1. **MEDITERRANEAN ROCKY COASTS:** *"Soft" and "hard" rocky coasts, response to climate change, cliff retreat, bio erosion and bio construction, karst coasts...*
2. **COASTAL RISKS MANAGEMENT IN THE MEDITERRANEAN:** *Coastal inundation (storms, tsunami and storm surge, pollution, coastal and beach erosion, salinization of coastal waters*
3. **COASTAL AND MARITIME PORT PLANNING:** *Coastal and port structures: experiment, modeling, design and monitoring in coastal and port engineering; ecological engineering: state of the arts and perspectives, ecological restoration, marine energy production ...*
4. **SEDIMENT TRANSPORT, PROBLEMS AND SOLUTIONS:** *Coastal dynamics: modeling, instrumentation and tools for the treatment of data related to coastal dynamics; beach nourishment, monitoring, dredging, sustainable management of sediments ...*

WORKSHOPS

Workshop 1: Coastal and marine hazards: Historical trends and future predictions

EXHIBITION STANDS FOR COMPANIES

All information on the following website:

<http://jadran.izor.hr/cm2/>

Contact and detailed information:

cm2split@izor.hr

ORGANIZERS

This conference is organized by:

- **Pôle Mer Méditerranée** with its partners: the Centre Français du Littoral association – CFL, the CEREMA-EMF and the French companies concerned with the Mediterranean and the conference topics,
- **Institute of Oceanography and Fisheries** with its partners: University of Zagreb, University of Split and Croatian companies concerned with the Mediterranean and the conference topics and other international sponsors.

Preliminary program / Programme préliminaire

(UPDATED ON 07/11/2017)

Tuesday 28th November 2017 / Mardi 28 Novembre 2017

Park Hotel, Place of the CM2 conference in Split / Hôtel Park, Place de la conférence CM2, Split
17:00-19:00 pm - Welcome to the conference – Registration / Accueil des participants - Enregistrements

Wednesday 29th November 2017 / Mercredi 29 Novembre 2017

MORNING / MATIN

8:00-9:00 am - Welcome to the conference – Registration / Accueil des participants - Enregistrements

9:00-9:30 am - Opening session / Allocutions d'ouverture

9:30-10:00 am: Keynote lecture / Lecture spéciale:

Seascape modeling & marine territories monitoring using multi-sensor data fusion: a new approach to leverage existing anthropic pressure.

Jean-Marc TEMMOS, (SEMANTIC T.S., Sanary, France)

10:00-11:15 am –Theme II - COASTAL RISKS MANAGEMENT IN THE MEDITERRANEAN

Session 1

Pollution & Coastal water and sediment quality

Chair /Président: Dir. Jean-Marc Temmos (SEMANTIC T.S., Sanary, France)

10:00-10:15 - Relating nautical traffic and copper concentration in coastal waters: a case-study in the Krka River estuary (Croatia)

Jasmin PADAN, Nuša CUKROV, Ana-Marija CINDRIĆ, Marija MARGUŠ, Neven CUKROV, Cedric GARNIER, Dario OMANOVIĆ

10:15-10:30 - Etude de tests de génotoxicité sur sédiment et zooplancton d'un oued fortement anthropisé (Oued Hamdoun, Tunisie)

Sabria BARKA, Zouhour OUANES, Mounira KRIFA, Soumaya KILANI, Leila CHEKIR-GHEDIRA, Amel HAMZA-CHAFFAI

10:30-10:45 - Coastal water quality and ecological health, enforcement of European policies, monitoring services by EO and crowdsourcing

Antoine MANGIN, Chloé VINCENT, Philippe BRYERE

10:45-11:00 - Etude physique et environnementale des sédiments du port de commerce de Sfax

Abdelwaheb BEN SLAMA, Nesma FEKI, Anis KAMOUN

11:00-11:15 - Distribution des mollusques gastéropodes Patellidae sur les côtes Ouest algériennes

Mohammed El Mustapha KALLOUCHE, Djilali BOURAS, Zitouni BOUTIBA

11:15-11:45 am – Coffee break / Pause café

11:45 am-13:15 pm - Theme II - COASTAL RISKS MANAGEMENT IN THE MEDITERRANEAN

Session 2

Pollution & Coastal water and sediment quality

Chair / Présidente: Pr. Fatiha KAZI-AOUAL (ENP, Oran, Algeria)

11:45-12:00 - Contribution of remote sensing and bacteriological analysis for the quality of bathing waters on the west coast of Tangier

Elkhalil CHERIF, Farida SALMOUN

12:00-12:15 - Extension of monitoring of the Sea bathing water quality in Croatia (EU directive 2006/7/EC) - importance of beach sediment characteristics

Damir IVANKOVIĆ, Kristina PIKELJ

12:15-12:30 - Spatial distribution and mobility of trace metals in sediments of the Krka River estuary (Adriatic Sea, Croatia)

Nuša CUKROV, Cédric GARNIER, Duc Huy DANG, Ana-Marija CINDRIĆ, Dario OMANOVIĆ, Neven CUKROV

12:30-12:45 - Integrated concentration statistics from river generated pollution in coastal zones

Morana GALEŠIĆ, Roko ANDRIČEVIĆ, Vladimir DIVIĆ

12:45-13:00 - Evolution of the monitoring network of seaports to a consideration of European priority substances

Julie DROIT, Jocelyn HILIOU, Mohamed EL FADILI, Marion MESSAGER

13:00-13:15 - Variation of the 1.5 ka surface water marine radiocarbon reservoir age in the Adriatic based on the study of algal rims

Sanja FAIVRE, Tatjana Bakran-PETRICIOLI, Jadranka BAREŠIĆ, Christophe MORHANGE, Damir BORKOVIĆ, Davor HORVATIĆ

13:15-14:15 pm – Lunch /Déjeuner

AFTERNOON / APRES-MIDI

14:15-14:45 pm: Keynote lecture / Lecture spéciale:
Adriatic karstic estuaries, their characteristics and evolution.

Mladen JURAČIĆ, (University of Zagreb, Zagreb, Croatia)

14:45-16:00 pm - Theme IV – SEDIMENT TRANSPORT, PROBLEMS AND SOLUTIONS

Session 3

Sustainable sediment management

Chair /Président: Pr Mladen JURAČIĆ, (University of Zagreb, Zagreb, Croatia)

14:45-15:00 - Nouvelles techniques de déshydratation mécanisée en continu des sédiments. La presse à boues KDS®.

Beatriz BOULLOSA ALLARIZ, Daniel LEVACHER, François THERY

15:00-15:15 - Selection of recovery paths for dredged sediments. A multicriteria analysis approach

Mickael BURONFOSSE, Sokha LEANG, Youcef BOUZIDI, Nicolas ANTHEAUME, François THERY

15:15-15:30 - Mortier auto-plaçant à base d'un sédiment marin et de coproduits industriels

Philippe DHERVILLY, Daniel LEVACHER, Daniel RIVARD, Hayat BOURTI

15:30-15:45 - Influence of composition parameters on the tunnel lining concrete made with dredged sediments subjected to high temperatures

Fatiha KAZI AOUAL-BENSLAFA, Mohammed AMEUR, Belkacem MEKERTA, Abdelaziz SEMCHA

15:45-16:00 – Title to be confirmed

Nassim SEBAIBI *et al.*

16:00-16:05 - Caractérisation physique et géotechnique routière des sédiments de dragage des barrages de la Willaya de Mascara (Algérie) - *Poster*

Zehour ALOUI-LABIOD, Assia BENAÏSSA, Daniel LEVACHER

16:05-16:45 pm – Coffee break / Pause café

16:45-18:45 pm - Theme II – COASTAL RISKS MANAGEMENT IN THE MEDITERRANEAN

Session 4

Coastal risks management

Chair / Présidente: Dr Sanja Faivre (University of Zagreb, Zagreb, Croatia)

16:45-17:00 - Impact of urbanized rivers inputs on sediments of two contrasted coastal Mediterranean areas: Toulon Bay (France) and St-Georges Bay (Lebanon)

Amonda EL HOUSSAINY, Carine ABI-GHANEM, Gaël DURRIEU, Duc Huy DANG, Céline MAHFOUZ, Dario OMANOVIĆ, Sebastien D'ONOFRIO, Jean-Ulrich MULLOT, Gaby KHALAF, Cédric GARNIER

17:00-17:15 - Les banquettes de *Posidonia oceanica* : des résidus marins essentiels contre la vulnérabilité des plages

Hugues HEURTEFEUX, Maria Eugenia GIUNTA FORNASIN, Olivia FAUNY, Vincent BERGTHOLD

17:15-17:30 - Coût des protections contre les aléas littoraux Un nouveau guide aux Éditions du CEREMA

Marc IGIGABEL

17:30-17:45 - Les interventions d'urgence sur les dispositifs de protection contre les submersions marines

Un nouveau guide aux Éditions du CEREMA

Marc IGIGABEL

17:45-18:00 - Evaluation du risque de submersion marine sur le littoral de Béjaïa, Algérie

Abdelkarim MEZHOUJ, Cherif AOUDJ, Fouzia HOUMA-BACHARI

18:00-18:15 - Coastal erosion and instability phenomena at Stara Baška, Krk Island, Croatia

Igor RUŽIĆ, Čedomir BENAC, Sanja DUGONJIĆ JOVANČAVIĆ, Leo MATEŠIĆ

18:15-18:30 - Towards an understanding and operational early warning of the Adriatic meteotsunamis: Project MESSI

Jadranka ŠEPIĆ, Ivica VILIBIĆ, Gordana BEG PAKLAR, Vlado DADIĆ, Clea DENAMIEL, Natalija DUNIĆ, Tomislav DŽOIĆ, Miro GAČIĆ, Kristian HORVATH, Damir IVANKOVIĆ, Dalibor JELAVIĆ, Hrvoje KALINIĆ, Žarko KOVAČ, Vedrana KOVČEVIĆ, Toni MAŠĆE, Frano MATIĆ, Iva MEDUGORAC, Hrvoje MIHANOVIĆ, Sebastian MONSERRAT, Stipe MUSLIM, Alexander RABINOVICH, Maja TELIŠMAN-PRTENJAK, Martina TUDOR

18:30-18:45 - Investigating the causes of the massive erosion at Soliman

Camille JESTIN, Nicholas GRUNNET, Sten Esbjørn KRISTENSEN, Jort WILKENS, Béchir NASRA

After 18:45 pm – Free visit of Split

Thursday 30th November 2017 / Jeudi 30 Novembre 2017

DAY / JOURNEE

Technical visits in Krka valley / Visites techniques dans la vallée de Krka

8:00 am Bus departure from Park Hotel in Split to Krka valley – Départ du bus pour la vallée de Krka devant l'hôtel Park de Split. Bus back to Split / Retour en bus à Split

EVENING / SOIREE

From 20:00 pm –Gala dinner in Split / Diner de gala dans Split

Friday 1st December 2017 / Vendredi 1^{er} Décembre 2017

MORNING / MATIN

8:30-9:00 am: Keynote lecture / Lecture spéciale:

A global approach of sea outfall: seawater desalination, power plant and wastewater

Jean BOUGIS, (Consultant, SCS-ingénierie, Opio, France)

9:00-11:20 am -Theme III – COASTAL AND MARITIME PORT PLANNING

Session 5

Coastal and port structures engineering & port planning

Chair /Président: Dr Jean BOUGIS (SCS ingénierie, Opio, France)

9:00-9:15 - Volumetric analysis of flow through flushing culverts embedded in breakwaters

Damjan BUJAK, Dalibor CAREVIĆ, Ratko RAMUŠČAK, Ante GAŠPAR

9:15-9:30 - Agrément technique de fournitures d'encrochement pour la mise en œuvre de carapaces de protection sur ouvrages hydrauliques

Mikaël DUMAS

9:30-9:45 - Un type de digues pour filtrer de la houle

Guillaume DUPONT, Olivier KIMMOUN, Fabien REMY, Bernard MOLIN, Sebastien GUENNEAU, Stefan ENOCH

9:45-10:00 - Coastal port planning as a touristic development

Heiner HAASS

10:00-10:15 - Réhabilitation d'ouvrages : cas de la grande jetée de Toulon

Anne HONNEUR, Julie LEBUNETEL

10:15-10:45 am – Coffee break / Pause café

10:45 am-12:30 pm - Theme III – COASTAL AND MARITIME PORT PLANNING

Session 6

Coastal infrastructures engineering & climate change

Chair / Président: Dr Igor Ružić (University of Rijeka, Rijeka, Croatia)

10:45-11:00 - Climate change - Adaptation options for seaports

Baerbel KOPPE

11:00-11:15 - Innovative solutions for the enhancement of biodiversity on coastal infrastructures: case studies of artificial port nurseries and modular mooring reefs

Matthieu LAPINSKI, Pierre BOISSERY, Renaud DUPUY-DE LA GRANDRIVE, Sylvain BLOUET, Mathieu FOULQUIE, Edouard CHERE, Martin PERROT

11:15-11:30 – Ouvrage de protection pour le port du Grand Large de Dunkerque à paroi perforée et partiellement transmissible

Julie LEBUNETEL, Anne HONNEUR, André JEREZ

11:30-11:45 - Numerical modeling of wave-structure interaction using the method of fundamental solutions

Mohamed LOUKILI, Laila EL AARABI, Soumia MORDANE

11:45-12:00 – Title to be confirmed

Martin SANCHEZ, Michel BELORGEY

12:00-12:15 - Statistical analysis and probabilistic modeling of chloride ingress spatial variability in concrete coastal infrastructures

Franck SCHOEFS, Mestapha OUMOUNI, Romain CLERC, Inès OTHMEN, Stéphanie BONNET

12:15-12:30 - Quality seafloor model as a fundamental base for maritime engineering, port planning and transport safety

Ljerka VRDOLJAK, Jelena KILIĆ

12:30-14:00 pm – Lunch /Déjeuner

AFTERNOON / APRES-MIDI

14:00-14:30 pm: Keynote lecture / Lecture spéciale:

The rocky coasts of the Mediterranean Sea: field studies.

Stefano FURLANI, (Trieste University, Italia)

14:30-16:00 pm - Theme IV – SEDIMENT TRANSPORT, PROBLEMS AND SOLUTIONS

Session 7

Coastal dynamics, erosion and beach nourishment

Chair /Présidente: Dr K. Pikelj (Institute of Oceanography and Fisheries, Croatia)

14:30-14:45 – Evolution morphodynamique du trait de côte à Saïdia et à Al Hoceima sur le littoral méditerranéen Marocain

Khadija AIT LEMQEDDEM, Hajer BENJILANI, Brahim DAMNATI

14:45-15:00 - Analyse des variations spatio-temporelles du littoral sableux : Est Béjaoui (Algérie)

Cherif AOUDJ, Abdelkarim MEZHOUD, Mokhtar GUERFI, Yacine HEMDANE

15:00-15:15 – Effect of offshore winds and storm waves on the efficiency of beach nourishment behind detached breakwaters, the Barcarès beach, France

Yann BALOUIN, Eric PALVADEAU, Ywenn DE LA TORRE, Damien DAILLOUX, Hugo CHRISTMANN

15:15-15:30 - Characteristics of Pleistocene aeolian – alluvial sediment on Vrgada island cliff (Adriatic sea, Croatia)

Adriano BANAK, Kristina PIKELJ, Borna LUŽAR-OBERITER, Branko KORDIĆ

15:30-15:45 - Etude de la dynamique sédimentaire dans la baie de Monastir

Nouha KHIARI, Abdelfattah ATOUI, Nadia KHALIL, Abdelkrim CHAREF

15:45-16:15 pm – Coffee break / Pause café

16:15-17:30 pm - Theme IV – SEDIMENT TRANSPORT, PROBLEMS AND SOLUTIONS

Session 8

Erosion and coastline evolution

Chair /Président: Dr Y. Balouin (BRGM, France)

16:15-16:30 - Sand beaches of the SE Adriatic: insights from sediment composition

Borna LUŽAR-OBERITER, Ljubomir BABIĆ, Ivan RAZUM, Jožica ZUPANIČ

16:30-16:45 - Coastline evolution monitoring by Earth Observation

Antoine MANGIN, Amine Mohamed TAJI

16:45-17:00 - Friches salinières solaires. Vers de nouveaux "paysages du sel" résilients en Méditerranée

Jean-Louis PACITTO, Odile JACQUEMIN

17:00-17:15 - Observations of shoreline changes on a pocket gravel beach: Baška beach, Croatia

Igor RUŽIĆ, Suzana ILIĆ, Čedomir BENAC, Nino KRVAVICA

17:15-17:30 - Erosional processes acting on coastal cliffs in the Split urban zone, Croatia

Goran VLASTELICA, Kristina PIKELJ, Branko KORDIĆ

17:30-18:00 pm – Closure session and announcement for CM2- 2019 | Allocutions de clôture et annonce du CM2 - 2019

During the CM2 conference / Pendant la conférence

Free permanent poster session / Session libre permanente de posters

SCIENTIFIC COMMITTEE

Presidents

BARDEY Philippe, Pôle Mer Méditerranée-ACRI, Toulon, France and PIKELJ, Kristina, Institute of Oceanography and Fisheries, Croatia.

REVIEW COMMITTEE

Presidents

VDOVIĆ Neda, RBI, Zagreb, Croatia and SANCHEZ Martin, University of Nantes, France.

ORGANIZING COMMITTEE

President

PIKELJ Kristina, Institute of Oceanography and Fisheries, Croatia.

Vice- Presidents

MARUŠIĆ Anita, Institute of Oceanography and Fisheries, Croatia, RAYMOND Eve, Pôle Mer Méditerranée, Toulon, France.

Members

IVANKOVIĆ Damir, Institute of Oceanography and Fisheries, Croatia,

Croatian and French companies

University of Zagreb, Institute of Oceanography and Fisheries, Split, Centre Français du Littoral, CFL – Paralia, Nantes, France; Centre d'études et d'expertise sur les risques, l'environnement, la mobilité et l'aménagement, CEREMA-EMF, Aix-en-Provence and Compiègne, France; Pôle Mer Méditerranée, Toulon, France; SCS-Ingénierie, Opio, France.

COMMUNICATIONS

- The official language is **English**; **French** is also accepted.
- Communications will be held either in the form of an oral presentation which will last 15-20 minutes including discussion, or as a poster presentation for 5 minutes. They will be collected in a **e-book of notes or short communications**, delivered at the conference on USB key. They will be available on line 15 days after the conference on the website <http://www.paralia.fr>.

CONFERENCE BULLETIN CONSULTATION

Conference bulletin is permanently available on line on website <http://www.paralia.fr>

Editorial and scientific secretariat for the special Coastal and Maritime Mediterranean Conference

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IMPORTANT DATES

Conférence in Split on 2017, November, the 29th, 30th and December 1st. Welcome at conference from November, 28th, at 17:00 pm.

PLACE OF THE CONFERENCE: PARK HOTEL, SPLIT – CROATIA

Participant registration and all information on the following website

<http://jadran.izor.hr/cm2/>

REGISTRATION FEES

Fee amounts including registration, proceeding, lunches and gala dinner, technical visit, shuttles: 420 Euros.

A special student registration fee will be offered for the non speakers.

A list of hotels will be proposed by the organizers from **September 15th 2017** on the website: <http://jadran.izor.hr/cm2/>



4th COASTAL & MARITIME MEDITERRANEAN CONFERENCE - CM2 - SPLIT - CROATIA

From November 29th to December 1st, 2017

CONFERENCE REGISTRATION FORM DELEGATE'S PERSONAL DATA

(Please fill in capital letters)

Family name:
First name:
Job position title:
Company/organization:
Address:
Area code:
City and country:
E-Mail address:
Telephone or mobile phone number:

I intend to participate in the conference:

350 €VAT included (registration before 2017, October 15th) yes
420 €VAT included (registration after 2017, October 15th) yes
Student fee*: 175 €VAT included (registration before 2017, October 15th) yes
Student fee*: 210 €VAT included (registration after 2017, October 15th) yes

**validity: for only student non speaker and not in doctoral position (join a student card copy).*

I present an oral presentation/poster in the theme n°: (see bulletin, page 2)

Date: 2017

Signature:

Return Conference Registration Form with the payment to:

**Institute of Oceanography and Fisheries
Setaliste Ivana Mestrovica 63, 21000 Split, Croatia
E-mail: cm2split@izor.hr**

The payment can be made by transfer on the account:

**SPLITSKA BANKA d.d. ; OTP GROUP
Domovinskog rata 61, 21000 SPLIT
IBAN: HR7023300031100086889
SWIFT/BIC: SOGEHR22
Tax Registration Number (VAT): HR86235185568
OIB (for domestic payments): 86235185568
OIB serves for the payments in national currency (HRK)**



4th COASTAL & MARITIME MEDITERRANEAN CONFERENCE - CM2 - SPLIT - CROATIA

From November 29th to December 1st, 2017

CONFERENCE REGISTRATION FORM (Please fill in capital letters)

EXHIBITION STAND & SPONSOR COMPANY/ORGANISATION DELEGATE

COMPANY, ORGANIZATION, ADMINISTRATION

NAME OF THE REPRESENTATIVE:

FIRST NAME:

JOB POSITION:

COMPLETE ADDRESS :

Telephone:

Mobile:

Fax:

E-mail address:

NORMAL STAND: stand 4 to 5m², rental price: 1000 € without VAT – basic version, including the representative¹ registration for the conference, if representative changes every day, please note

Name of representative for the 2nd day:

Name of the representative for the 3rd day:

EXTRA STAND: stand > 4m², for rental price, contact **Dr. Kristina Pikelj**, see below.

Will participate for the conference:

YES

NO

Stand contacts: (firstly) Dr. Kristina Pikelj

E-mail: pikelj.kristina@gmail.com

Or Prof. D. Levacher – CFL – Tel. 00 + 33 (0)6 33 53 66 94

Fax 00 33 (0)2 31 56 57 57 – E-mail: daniel.levacher@unicaen.fr

Return Conference Registration Form with the payment to:

**Institute of Oceanography and Fisheries
Setaliste Ivana Mestrovica 63, 21000 Split, Croatia
E-mail: cm2split@izor.hr**

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SWIFT/BIC: SOGEHR22
Tax Registration Number (VAT): HR86235185568
OIB (for domestic payments): 86235185568
OIB serves for the payments in national currency (HRK)**

¹ Stand responsible during the conference. If this person is oral speaker (communication or poster), registration fee is also due.