PROGRAMME

28th September – 1st October 2015
Florence, Italy

Dipartimento di Ingegneria Civile e Ambientale - DICEA
Civil and Environmental Engineering
Department
Florence University
CONFERENCE INFORMATION

Registration and Check in
All attendees are required to check in at the registration desk. Participants are reminded to wear name badges all time while in the conference area.

Keynote Lectures

Dr. Marcel Van Gent
Deltares, The Netherlands
Recent developments in the physical modelling of coastal structures, including the new Delta Flume.

Prof. Antonio Falcão
Instituto Superior Tecnico, Portugal
Wave energy conversion: modelling and technologies.

Dr. Giovanni Cecconi
Consorzio Venezia Nuova, Italy
The MOSE Project. Defending Venice and its cultural heritage from floods.

Prof. Nobuhisa Kobayashi
University of Delaware, USA
Gravel and stone transport on beaches and structures: Gravel beaches in Japan, Evolution of gravel beach profiles, and Deformation of reef breakwaters and wave transmission.

Prof. Javier Lopez Lara
IH Cantabria, Spain
Hybrid/Composite Modelling: Combined physical-numerical modelling

Presentations
Papers will be presented during the technical sessions. Two different format of presentations are planned.

Oral presentations are allocated 12 minutes time and 3 minutes for questions, while oral plus poster presentations are allocated 5 minutes time followed by poster exhibition.

Posters will be exposed in the conference exhibition area on Tuesday 29th and Wednesday 30th September.

All conference rooms will be equipped with PC and projectors. Presenters are kindly requested to upload their presentation before the planned session.

SCACR does not have a mandatory template that presenters must use. The format for posters must be the A0 (84,1cm-118,9cm).

Coffee breaks and Lunch breaks
Coffee breaks and lunch will be available at the conference venue.

Deadline for reviewed papers submission: 15th November 2015

Contact Information
AM3 | Organization of meetings
http://scacr2015.dicea.unifi.it
Phone: +39 055 2758822
E-mail: scacr2015@dicea.unifi.it
The conference will be held at the University of Florence, in the following locations (less than 5 minutes walking distance from Piazza San Marco):

**Monday 28th September 2015**
- **RETTORATO** – Room “Aula Magna Rettorato”, Piazza San Marco 4

**Tuesday 29th September 2015**
- **RETTORATO** – Room “Aula Magna Rettorato”, Piazza San Marco 4

**Wednesday 30th September 2015**
- **RETTORATO** – Room “Aula Magna Rettorato”, Piazza San Marco 4

**Thursday 1st October 2015**
- **VIA LAURA** – Room “Aula Magna Via Laura”, Via Laura 48
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<tr>
<td>10:30 / 13:00</td>
<td>Welcome Breakfast and Registration</td>
<td>Technical Session III and IV</td>
<td>Technical Session VII and VIII</td>
<td>Technical Session IX and X</td>
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<td>13:00 / 14:00</td>
<td>Registration</td>
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<td>13:00 / 13:15 Awards notification and Closure</td>
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<td>13:45 - Opening and Welcome</td>
<td>14:00 / 15:15</td>
<td>14:30 / 18:30 Guided visit</td>
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<td>Consorzio Venezia Nuova</td>
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<td>Technical Session V and VI</td>
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<td>20:00 / 23:00</td>
<td>Social Dinner</td>
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Monday 28th September 2015
Room RETTORATO

10:30-13:45  WELCOME BREAKFAST AND REGISTRATION

13:45-14:00  CONFERENCE OPENING AND WELCOME
Chairs: Cappietti L., Tomasicchio G.R.

14:00-15:15  KEYNOTE LECTURE  – Chair: Neves M.G.
Van Gent M. - Deltares, The Netherlands
Recent developments in the physical modelling of coastal structures, including the new Delta Flume

15:15-15:30  COFFEE BREAK

15:30-16:45  TECHNICAL SESSION I
Chairs: Arena F., Kos'Yan R.

15:30-15.45 Studying tidal stream turbines in the LABIMA-DICEA wave-current flume
Walker S.

15:45-16.00 A hybrid 2D-3D numerical method for the wave propagation around wave energy converter arrays
Cecioni C., Bellotti G.

16.00-16:15 Hydrodynamical aspects of a coastal boundary layer, observations and modeling close to the Giglio Island
Brandini C., Taddei S., Doronzo B., Perna M., Fattorini M., Costanza L., Serafino F.

16:15-16:30 Simulations of soliton fission of tsunami waves
Gao F., Chen L.F., Zang J., Yasuda T., Mase H.

16:30-16:45 Composite Modelling of Flooding in Uneven Coastal & Estuarine Areas
Penchev V., Pan J., Penchev P., Dongdong J., Shukrieva S.

16:50-18:20  TECHNICAL SESSION II
Chairs: Fortes C.J.E.M., Neves M.G.

16:50-17:05 Study of the efflux velocity using two helices

17.05-17:20 Measuring pocket gravel beach changes with a digital camera
Ružić I., Ilic S., Benac, Č.

17.20-17:35 Laboratory generation of solitary and cnoidal waves by use of the Green-Naghdi equations
Seiffert, B.R., Ertekin, R.C

17.35-17:50 Formation of freak waves in a wave train propagating on a current
Stachurska B., Majewski D., Sulisz W.

17.50-18:05 A numerical micro-scale model of the flow inside a sediment matrix
Staudt F., Bartzke G., Huhn K.

18.05-18:20 Sedimentary flux as a function of the breaker parameter
Oudart T., Larroudé Ph., Cartier A., Héquette A.

Tuesday 29th September 2015
Room RETTORATO

09:00-10:15  KEYNOTE LECTURE  – Chair: Cappietti L.
Falcão, A. - Instituto Superior Tecnico, Portugal
Wave energy conversion: modelling and technologies

10:15-10:30  COFFEE BREAK

10:30-11:45  TECHNICAL SESSION III
Chairs: Vicinanza D., Besio G.

10:30-10.45 Small-scale field experiment on a modular U-oscillating water column
Arena F., Fiamma V., Lface V., Malara G., Romolo A., Strati F.M., Barbaro G., Sannino G., Carillo A.

10:45-11:00 Laboratory experiments on oscillating water column wave energy converters
Crema I., Cappietti L., Oumeraci H.

11:00-11:15 The phenomenon of air compressibility in air-water systems, benchmarking a two-phase numerical model
Simonetti I., Cappietti L., El Safti H., Oumeraci H.

11:15-11:30 Design optimization of an oscillating water column wave energy converter. Analytical and numerical modeling
Mendonça A., Jalal M.L., Correia R., Dias J., Neves M.G., Didier E.

11:30-11:45 Application of URANS-VOF models in hydrodynamic study of oscillating water column
Dias J., Mendonça A., Didier E., Neves M.G., Conde J.M.P.

11:50-13:05  TECHNICAL SESSION IV
Chairs: Aminti P.L., Tomasicchio G.R.

11:50-12:05 Wave loading on an innovative breakwater integrated wave energy harvester
Di Lauro E., Contestabile P., Ferrante E., Vicinanza D.

12:05-12:20 Wave energy resource assessment in the seas around Greece: estimation and prospects
Oikonomou C., Aggidis G.A.

12:20-12:35 Wave energy potential at Azores Islands
Matos A., Madeira F., Fortes C.J.E.M., Didier E., Poseiro P.

12:35-12:50 Environmental impact assessment of wave energy converters: a review
Riefolo L., Lanfredi C., Azzellino A., Vicinanza D.

12:50-12:55 POSTER 1 - Monitoring of the first full-scale prototype of an U-OWC in the Civitavecchia port
Arenas F., Fiamma V., Romolo A., Malara G., Lface V., Strati F.M.

12:55-13:00 POSTER 2 - Hydro-aero-elastic response of offshore wind turbines in rough sea states
Marino E., Lugnì C., Borri C.
13:00-13:05 POSTER 3 - Multi Body Simulation of a floating Wave Energy Converter
Knapp T., Bednarz M., Philipp S.

13:05-14:00 LUNCH BREAK

14:00-14:15 KEYNOTE LECTURE – Chair: Barbaro G.
Cecconi G. - Consorzio Venezia Nuova, Italy
The MOSE Project: Defending Venice and its cultural heritage from floods

15:15-15:30 COFFEE BREAK

15:30-17:00 TECHNICAL SESSION V
Chairs: Bellotti G., Ruol P.

15:30-15.45 Overtopping risk maps at the West Portuguese Coast
Capitão R., Fortes C.J.E.M., Pereira T., Poseiro P., Reis M.T., Santos J.A.

15.45-16:00 Predicting wave extremes: comparing long time series with statistical models
Lapponi, V., Mattioli, M.

16.00-16:15 Rip current modelling using XBEACH in Allassio beach
Mucerino L., Carpi L., Schiaffino C.F., Pranzini E., Firpo M., Ferrari M.

16.15-16:30 Toe berm damage progression analysis using a stereophotogrammetric survey technique
Pedro F., Bastos M., Lemos R., Fortes C.J.E.M., Santos J.A.

16:30-16:45 Innovative consolidation of sand dunes against erosion: first field trial
Traldi D., Levanto P., Tomasicchio G.R., D’Alessandro F.

16:45-17:00 Wave run-up and overtopping integrated model for vertical seawalls based on CLASH datasets
Tamada T., Mase H., Yasuda T.

17:05-17:10 POSTER 4 - A prompt index for sea storm hazards
Besio G., Donini L., Gallino S., Onorato L.

17:10-17:15 POSTER 5 - Tsunami Defense at Ports, Korea
Cho Y.-S., Ahn S.-H., Hwang H.-S.

17:15-17:20 POSTER 6 - Masterplan of the solutions for mitigating the risk of coastal erosion in Calabria (Italy)
Barbora G., Foti G., Sicilia C.L., Malara G., Scionti F.

17:20-17:25 POSTER 7 - A structured approach to the assessment of sediment budget in coastal management: the case of the Venetian littoral
Ruol P., Favaretto C., Martinelli L.

17:25-17:30 POSTER 8 - Modelling storm-induced beach evolution at La Playa Beach, Sardinia, IT
Sulis A., Asproni S.

17:30-17:35 POSTER 9 - Physical and numerical modeling of rip current
Capobianco A.

17:35-17:40 POSTER 10 - Evaluation of wave overtopping consequences for risk assessment. The Praia da Vitória Harbour Case Study
Lourenco I., Poseiro P., Santos J.A., Fortes C.J.E.M., Reis M.T., Craveiro J.

17:40-17:45 POSTER 11 - Wind-wave attenuation on sea-grass meadow in Berre lagoon with TOMAWAC and SPH 3D model
Oudart T., Paquier A.-E., Larroudé Ph., Meulé S., Anthony E.J.

17:45-17:50 POSTER 12 - Numerical modelling and field measurement of stratified estuary: Rječina River case study
Krvavica, N., Travaš, V., Ožanić, N.

17:50-17:55 POSTER 13 - Storm-induced costal vulnerability to erosion of Greek beaches for the present and future climate
Kokkinos D., Prinos P., Karambas T., Tsiaras A.

17:55-18:00 POSTER 14 - Laboratory experiments on wave loads on bottom-mounted offshore wind turbine foundation
Cappietti L., Pecora M., Marino E., Borri C.

18:00-18:05 POSTER 15 - The contribution of LABIMA, University of Florence, to the international databases on overtopping at port breakwaters
Cappietti L., Espostito A., Crema I., Aminti P.L.

Wednesday 30th September 2015
Room RETTORATO

09:00-10:15 KEYNOTE LECTURE – Chair: Ruol P.
Kobayashi, N. - University of Delaware, USA
Gravel and stone transport on beaches and structures: Gravel beaches in Japan, Evolution of gravel beach profiles, and Deformation of reef breakwaters and wave transmission

10:15-10:30 COFFEE BREAK

10:30-11:45 TECHNICAL SESSION VII
Chairs: Martinelli L., D’Alessandro F.

10:30-10:45 Modelling cross-shore statistical moments for near bed orbital velocity and acceleration
Abreu T., Sancho F., Silva P.A.

10:45-11:00 A new application of the nonlinear shallow water numerical model AMAZON to study OWC in vertical breakwaters
Reis M.T., Didier E., Hu K., Dias J., Fortes C.J.E.M.

11:00-11:15 Effects of climate changes on coastal erosion in Svalbard
Paprota M., Majewski D., Sulisz W., Szmytkiewicz M., Reda A.

11:15-11:30 Experimental study of overtopping behavior of steep low crested coastal structures
Gallich-Sanchez D., Troch P., Kortenhaus A.

11:30-11:45 Uncertainties related to wave overtopping over coastal structures
Kortenhaus A., Corne I.
**Thursday 1st October 2015**  
**Room VIA LAURA**

### 10:00-10:15 **KEYNOTE LECTURE**  
**Chair:** Fortes C.J.E.M.  
**López Lara J. - IH Cantabria, Spain**  
Hybrid/Composite Modelling: Combined physical-numerical modelling

### 10:15-10:30 **COFFEE BREAK**

### 10:30-11:45 **TECHNICAL SESSION IX**  
**Chairs:** Ilic S., Barbaro G.

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<td>10:30</td>
<td>Coastal currents</td>
<td>Alaee M.J., Jaafari E., Bali M.</td>
<td>Estimation of coastline dynamics of the Anapa Bay-bar based on satellite images</td>
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<td>10:45</td>
<td>Estimation of coastline dynamics</td>
<td>Krylenko M., Krylenko V., Aleynikov A.</td>
<td>A GUI program for estimating headland-bay beach shapes in curved shoreline feature Lee J.L.</td>
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<td>11:00</td>
<td>Real-time wave prediction</td>
<td>Kim S., Matsumi Y., Pan S., Mase H.</td>
<td>Two Dimensional Nonlinear Wave Propagation over Wetland Vegetation Kajihata J., Venkattaramanan A.</td>
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<tr>
<td>11:15</td>
<td>Numerical simulations</td>
<td>Mollardino G.A., Favara V., Novara A., Viola F.</td>
<td>Real-time wave prediction using artificial neural network</td>
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<td>11:30</td>
<td>Inspection and quality control</td>
<td>Koppe B., Gutermann M.</td>
<td>Textural and morphological changes of dredged sediments after treatment techniques Rodella I., Simeoni U., Bettoli D., Collini D., Corbau C.</td>
</tr>
<tr>
<td>11:45</td>
<td>Headland protection</td>
<td>Rakha K.A., Ahmed M.T.T.</td>
<td>Inspection and quality control of hydraulic structures - visual, calculative, experimental Del Vita I.</td>
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<td>12:05</td>
<td>New experiments</td>
<td>Kaihatu J., Venkattaramanan A.</td>
<td>Inspection and quality control of hydraulic structures - visual, calculative, experimental Del Vita I.</td>
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<td>13:00</td>
<td>Hybrid/Composite Modelling</td>
<td>Krylenko M., Krylenko V., Aleynikov A.</td>
<td>Inspection and quality control of hydraulic structures - visual, calculative, experimental Del Vita I.</td>
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### 11:50-12:50 **TECHNICAL SESSION X**  
**Chairs:** Mase H., Romolo A.

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<td>New experiments on wave transmission at submerged breakwaters in Reef Ball (TM) Del Vita I.</td>
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### 13:00-14:00 **LUNCH BREAK**

### 14:30-18:30 **GUIDED VISIT**  
*The Museo Galileo*

### 20:00-23:00 **SOCIAL DINNER**

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**Friday 2nd October 2015**

### 07:00-20:30 **POST CONFERENCE TOUR**  
*The MOSE PROJECT, Venice*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00</td>
<td>Departure</td>
<td>from Florence</td>
</tr>
<tr>
<td>10:30</td>
<td>Arrival</td>
<td>in Venice</td>
</tr>
<tr>
<td>11:15</td>
<td>Arrival</td>
<td>at the arsenal, presentation of &quot;MOSE to defend from floods&quot;</td>
</tr>
<tr>
<td>13:00</td>
<td>Lunch</td>
<td>on the restaurant boat</td>
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<tr>
<td>14:00</td>
<td>Technical Visit</td>
<td>to Chioggia inlet where the MOSE gates are operating</td>
</tr>
<tr>
<td>17:00</td>
<td>Departure</td>
<td>from Venice</td>
</tr>
<tr>
<td>20:30</td>
<td>Arrival</td>
<td>in Florence</td>
</tr>
</tbody>
</table>
Organizing committee

Pier Luigi Aminti, University of Florence, Italy
Lorenzo Cappietti, University of Florence, Italy
Giuseppe Roberto Tomasicchio, University of Salento, Italy
Felice D’Alessando, University of Salento, Italy

Scientific committee

K.A. Al-Banaa, Kuwait Institute for Scientific Research, Kuwait
J. Alsina, Imperial College, UK
P.L. Aminti, University of Florence, Italy
R. Archetti, University of Bologna, Italy
F. Arena, University Mediterranea di Reggio Calabria, Italy
G. Barbaro, University Mediterranea di Reggio Calabria, Italy
G. Bellotti, University of Roma 3, Italy
G. Besio, University of Genova, Italy
R. Briganti, University of Nottingham, UK
M. Buccino, University of Napoli, Italy
H.F. Burcharth, Aalborg University, Denmark
L. Cappietti, University of Florence, Italy
Q.J. Chen, Louisiana State University, USA
F. D’Alessandro, University of Salento, Italy
L. Damiani, Politecnico di Bari, Italy
F. Dentale, University of Salerno, Italy
F. Durante, University of Bolzano, Italy
W. Elshorbagy, United Arab Emirates, University UAE
A. Falcao, Instituto Superior Tecnico, Portugal
C.J.E.M. Fortes, LNEC, Portugal
E. Foti, University of Catania, Italy
F. Frega, University of Calabria, Italy
A.T. Freyermuth, Universidad Nacional Autonoma de Mexico, Mexico
L. Gato, Instituto Superior Tecnico, Portugal
G. Iglesias, Plymouth University, UK
S. Ilic, Lancaster University, UK
J. Jimenez, Universitat Politecnica de Catalunya, Spain
B. Johnson, US Army Corps of Engineers, USA
T.V. Karambas, Aristotle University of Thessaloniki, Greece
J. Kirkegaard, DHI, Denmark
N. Kobayashi, University of Delaware, USA
A. Kortenhaus, University of Gent, Belgium
F. Lalli, ISPRA, Italy
J. Lopez Lara, IH Cantabria, Spain
I. Losada, IH Cantabria, Spain
C. Lugni, CNR - INSEAN, Italy
E. Marino, University of Florence, Italy
S.A Mavrakos, National Technical University of Athens, Greece
J. McKee Smith, US Army Corps of Engineers, USA
J. Melby, US Army Corps of Engineers, USA
H. Oumeraci, Technische Universitat Braunschweig, Germany
V. Penchev, CORES, Bulgaria
E. Pranzini, University of Florence, Italy
P. Prinos, Aristotle University of Thessaloniki, Greece
E. Ranieri, Politecnico di Bari, Italy
A. Sanchez Arcilla, Universitat Politecnica de Catalunya, Spain
F. Sancho, LNEC, Portugal
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H. Schuttrumpf, RWTH Aachen University, Germany
F. Taveira Pinto, Universidade do Porto, Portugal
G.R. Tomasicchio, University of Salento, Italy
J. Van der Meer, UNESCO-IHE, The Netherlands
M. Van Gent, Deltares, The Netherlands
D. Vicinanza, University of Napoli 2, Italy
G. Vittori, University of Genova, Italy
The conference dinner will take place on **Wednesday 30th September**, starting at 20:00, at Mercato Centro, Piazza del Mercato Centrale – Via dell’Ariento, 50123 Firenze, 3rd floor, TOSCA restaurant.  https://www.mercatocentrale.it/