

CSDU CSSI DAYS²⁵

II international Conference on
**Challenges and Perspectives in
Urban Water Management Systems**

When?

November 17-20, 2025

Where?

Università degli Studi di
Trieste
Building A

Short paper submission deadline

30 September

Registration deadline

12 November

**Website
for all
informations**



17



**XI Giornata di
Studio sul
Drenaggio
Urbano
Sostenibile**

**XVIII
International
Short Course
on Water
Management
in Resilient Cities**

18

URBAN WATER PROCESSES

Sub-session 1.1
Hydrological
Dynamics &
Climate Change in
Urban
Environments

Sub-session 1.2
Water Quality &
Environmental
Impact of Water
Infrastructures

19

URBAN WATER MANAGEMENT

Sub-session 2.1
Sustainable Water
Infrastructures & Nature-
Based Solutions

Sub-session 2.2
Integrated Urban Water
Systems & Water
Governance

20



**SUNRISE
PROJECT
Final event**

II international Conference
on Challenges and Perspectives
in Urban Water Management Systems

CSDU CSSI DAYS²⁵



SCIENTIFIC COMMITTEE

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- PETRA AMPARO LÓPEZ JIMÉNEZ - UNIVERSITAT POLITÈCNICA DE VALÈNCIA
- MARCO MAGLIONICO - ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA
- STEFANO MALAVASI - POLITECNICO DI MILANO
- SILVIA MENICONI - UNIVERSITÀ DEGLI STUDI DI PERUGIA
- FRANCESCO NAPOLITANO - UNIVERSITÀ DI ROMA “LA SAPIENZA”
- STEFANO PAGLIARA - UNIVERSITÀ DEGLI STUDI DI PISA
- MAURIZIO RIGHETTI - LIBERA UNIVERSITÀ DI BOLZANO
- FEDERICO ROMAN - UNIVERSITÀ DEGLI STUDI DI TRIESTE
- ANDREA RUBIN - ACEGASAPSAMGA SPA
- UMBERTO SANFILIPPO - POLITECNICO DI MILANO
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- STEFANIA ANNA PALERMO - UNIVERSITÀ DELLA CALABRIA
- PATRIZIA PIRO - UNIVERSITÀ DELLA CALABRIA
- GIOVANNI PETRIS - UNIVERSITÀ DEGLI STUDI DI TRIESTE
- BEHROUZ PIROUZ - UNIVERSITÀ DELLA CALABRIA
- FEDERICO ROMAN - UNIVERSITÀ DEGLI STUDI DI TRIESTE
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CSDU CSSI DAYS²⁵



REGISTRATION FEES

Attending to the events of Monday 17th and Thursday 20th is free of charge, but registration is required anyway. Registration is required also for the events of Tuesday 18th and Wednesday 19th.

PROFESSORS AND RESEARCHERS			
Standard two-days (18th-19th) registration, including: coffee breaks, light lunches and the dinner of Tuesday 18th	One-day registration, including: coffee breaks and light lunch	Prize for conference dinner (already included only for standard two days registration)	Each submitted paper with up to five authors (+20 € + IVA/VAT for each author after the fifth author)
350 € + IVA/VAT	170 € + IVA/VAT	90 € + IVA/VAT	100 € + IVA/VAT

PHD STUDENTS, RESEARCH FELLOWS AND OTHER POST GRADUATE FELLOWSHIPS		
Standard two-days (18th-19th) registration, including: coffee breaks, light lunches and the dinner of Tuesday 18th	Prize for conference dinner (already included only for standard two days registration)	Each submitted paper with up to five authors (+20 € + IVA/VAT for each author after the fifth author)
140 € + IVA/VAT	90 € + IVA/VAT	100 € + IVA/VAT

UNIVERSITY STUDENTS AND NON-ACADEMIC ENGINEERS, ARCHITECTS, GEOLOGISTS AND SURVEYORS			
Standard two-days (18th-19th) registration, including: coffee breaks	One-day registration, including: coffee breaks	Prize for conference dinner (already included only for standard two days registration)	Each submitted paper with up to five authors (+20 € + IVA/VAT for each author after the fifth author)
No fee	No fee	90 € + IVA/VAT	100 € + IVA/VAT

EXTRA INFORMATION

- 15% early bird reduction for registration fee, in case of registration and payment within October 17th (social dinner and submission fees not included in the discount);
- full refunding, minus 50 € + IVA/VAT as exemption, for registration withdrawn within November 10th.

REGISTRATION FEES CAN BE PAID ONLY BY BANK TRANSFER TO THE FOLLOWING ACCOUNT:

- ACCOUNT HOLDER : CENTRO STUDI IDRAULICA URBANA
- IBAN : IT62P0569601620000010011X41
- BIC/SWIFT : POSOIT2108Y
- ISSUE : CSDUCSSIDAYS25, also specifying the kind of registration

PLEASE SEND A COPY OF THE PAYMENT TO: tesoriere@csdu.it
AND csducssidays@gmail.com [by indicating in the email subject "(RICEVUTE)"]

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17 NOVEMBER 2025
XI Giornata di Studio sul Drenaggio Urbano Sostenibile
XVIII International Short Course
Water Management in Resilient Cities

20 NOVEMBER 2025
SUNRISE PROJECT Final event

18 – 19 NOVEMBER 2025
II international Conference on Challenges and Perspectives in Urban Water Management Systems

PROFESSIONAL
TRAINING
CREDITS (CFPs)

INFO
AND CONTACS

	ENGINEERS	ARCHITECTS	GEOLOGISTS
<i>17 full day</i>	6	6	6
<i>18 morning</i>	3		
<i>18 afternoon</i>	3	6 full day	6 full day
<i>19 morning</i>	3		
<i>19 afternoon</i>	3	6 full day	6 full day

REGISTRATION: [GOOGLE FORM](#)
SHORT PAPER SUBMISSION: [EASYCHAIR](#)

EMAIL SUBJECT FORMAT REQUIRED
To ensure proper handling of your request, please include one of the following keywords in the subject line of your email, as shown in the table below.
Emails without these tags in the subject may not receive a response.

Type of inquiry	Required subject tag
Logistic questions (transport/hotel)	(LOGISTICA)
Collaboration or sponsorship proposals	(COLLABORAZIONE)
Scientific-related questions	(PAPER)
Credits for professional associations	(ORDINI)
Payment receipts	(RICEVUTE)

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17 NOVEMBER 2025

XI Giornata di Studio sul Drenaggio Urbano Sostenibile

**XVIII International Short Course
Water Management in Resilient Cities**



18 – 19 NOVEMBER 2025

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Perspectives in Urban Water Management Systems**

20 NOVEMBER 2025
SUNRISE PROJECT Final event

HOW TO ARRIVE

LOCATION:  BUILDING A - UNITS

BY CAR: Exit from the A4 highway (Turin-Trieste) at highway exit “Lisert”. Continue for about 15 kilometers. After the Prosecco tunnel turn right and follow indications for Trieste Opicina. After few kilometers, turn right at traffic light and then downhill towards the city center (about 6 kilometers to reach the university campus of Piazzale Europa 1).

BY TRAIN: The reference station is “Venezia-Mestre” to which the city is connected by several daily runs. Duration of the route: about 2h.

BY PLANE: Trieste airport is located in Ronchi dei Legionari (GO), connected to Trieste through a public transport service, both bus and train.

BY BUS FROM CITY: The university campus in Piazzale Europa 1 can be reached from the city centre with bus lines: 3, 4, 17, 17/, 39, 51. The ticket, in addition to the paper version available at newsagents and tobacco shops, can be purchased online through “TPLFVG” application (validate ticket via QR code on the bus).

SHUTTLE SERVICE: on 18 and 19 November, to reach conference venue, a free shuttle service will be available, from 7.30 to 9.30 AM, departing near the "Molo Audace".

- **Alla Posta**, Piazza Guglielmo Oberdan, 1 (3 stars)
- **Città di Parenzo**, Via degli artisti 8 (3 stars)
- **Savoia Excelsior Palace Trieste – Starhotels**, Riva del Mandracchio 4 (4 stars)
- **Urban Hotel Design**, reception in Androna Chiusa, 4 n.b, Via Punta del Forno, 3 (4 stars)

SUGGESTED HOTELS

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PROGRAMME 17 NOVEMBER

Building A - Aula Bachelet



XVIII International short courses - Water management in resilient cities Nature Based Solutions, evidenze sperimentali e modellazione

Training course organized by the University of Trieste in collaboration with Centro Studi idraulica Urbana (CSDU), funding PNRR-RETURN-SPOKE1

SESSION 1

8.00 Registration

8.45 Course introduction

- Prof.ssa Patrizia Piro, Università della Calabria, Chiar CSDU
- Prof. Federico Roman, Università degli studi di Trieste

9.00 NBS - Permeable pavements - experimental evidence

- Prof.ssa Patrizia Piro, Università della Calabria

9.45 NBS - Green roof - experimental evidence

- Prof. Andrea Petroselli, Università degli studi della Tuscia

10.30 Coffee break

11.00 NBS - Blue roof - experimental evidence

- Prof. Alberto Campisano, Università degli Studi di Catania

11.45 Modeling Nature Based Solutions in Urban Environments with INFOWORKS

- Prof. Giuseppe Aronica, Università degli Studi di Messina

12.30 Light lunch

SESSION 2

14.00 Modeling Nature Based Solutions in Urban Environments with EPA-SWMM

- Prof. Corrado Gisonni, Università degli Studi della Campania "Luigi Vanvitelli"

14.45 The optimal placement of NBS using EPA-SWMM

- Prof. Enrico Creaco, Università degli studi di Pavia

15.30 Coffee break

16.00 Optimization Procedures for Nature Based Solutions

- Prof. Behrouz Pirouz, Università della Calabria

16.45 Guidelines for the use of Nature Based Solutions in urban settings

- Prof.ssa Renata della Morte, Università degli Studi di Napoli Parthenope

17.30 Debate and closure

CSDU CSSI DAYS²⁵



PROGRAMME 18 NOVEMBER

Building A - Aula magna

Session 1: Urban Water Processes

Sub-session 1.1 – Hydrological Dynamics & Climate Change in Urban Environments

8.00 Registration

8.45 Institutional greetings

9.15 Conveners intro

- Maurizio Righetti - Libera Università di Bolzano
- Sara Todeschini - Università degli studi di Pavia
- Michele Turco - Università della Calabria

9.30-9.45 The influence of the outer geometry on the wind-induced bias of catching-type rain gauges

Arianna Cauteruccio, Enrico Chinchella, Luca Giovanni Lanza

9.45-10.00 Urban Pluvial Flooding Assessment with a Subgrid Approach for the Secondary Drainage Network: an application in Padova

Tommaso Lazzarin, Pierfranco Costabile, Daniele Pietro Viero

10.00-10.15 Development of an innovative approach for modelling urban surface flow during stormwater events

Aurora Gullotta, Leonardo Bayas-Jiménez, Alberto Campisano

10.15-10.30 Application of an event-based approach to assess bivariate rainfall models in two Italian climates

Matteo Balistrocchi, Hamzah Faquseh, Giovanna Grossi

10.30-10.45 Evaluating the wind-induced bias for three widely adopted non-catching precipitation instruments

Enrico Chinchella, Arianna Cauteruccio, Luca Giovanni Lanza

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PROGRAMME 18 NOVEMBER

Building A - Aula magna

10.45-11.00 Managing Urban Heat with Pavement Materials

John Sansalone

11.00-11.15 Evaluating Objective Functions for SWMM Calibration in Urban Catchments

Mohammed Assaf, Sauro Manenti, Lorenzo Tamellini, Sara Todeschini



11.15-11.30 Coffee break

11.30-11.45 Progettare reti a basso impatto AssoProReTI

Ing. Roberto Bertero - AssoProReTI

11.45-12.00 The effect of green roofs on the pressurization of stormwater collection networks

Gaetano Crispino, Erica Orsi, Luca Palmiero, Corrado Gisonni

12.00-12.15 A new device for flow rate measurement and energy harvesting

Marco Sinagra, Calogero Picone, Giuseppe Lo Cicero, Tullio Tucciarelli

12.15-12.30 Urban Drainage Nutrient Species Dynamics During Inter-Event Storage

John Sansalone

12.30-13.00 Keylecture Note “Steps for sustainable urban water networks”

Petra Amparo Lopez



13.00-14.00 Lunch break

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PROGRAMME 18 NOVEMBER

Building A - Aula magna

Sub-session 1.2 – Water Quality & Environmental Impact of Water Infrastructures

14.00 Conveners intro

- Stefano Malavasi - Politecnico di Milano
- Marco Maglionico - Alma Mater Studiorum Università di Bologna

14.15-14.30 The ENVISION Project: Integrating Nature-Based Solutions in Urban areas for Lake Pollution Mitigation

Maria Gloria Di Chiano, Enrico Gambini, Claudia Dresti, Umberto Sanfilippo, Gianfranco Becciu, Carmelo Cammalleri

14.30-14.45 Pragmatic modelling of large-scale urban pluvial flooding

Giada Varra, Nathalia Napolano, Mohamed Boukdire, Renata Della Morte, Luca Cozzolino

14.45-15.00 Solutions for the CSO reduction and impact mitigation

Martina Gambadori, Giovanna Darvini, Anna Laura Eusebi, Francesco Fatone, Lorenzo Tombolini, Cristiana Bollettini, Claudio Bernardo Carini, Fabrizio Marcozzi

15.00-15.15 Population dynamic exposure to pluvial hazard

Edna Jessica Wilches Kochinski, Sabrina Lanciotti, Elena Ridolfi, Benedetta Moccia, Fabio Russo, Francesco Napolitano

15.15-15.30 Making urban areas more permeable: the effect of the reduction of impermeable areas on drainage systems and the risk of plu-vial flooding

José Javier Serrano Chano, Giuseppina Brigandì, Giuseppe Tito Aronica

15.30-15.45 Lo scolmatore a gestione idraulica intelligente: sgrigliatori e regolatori a vortice

Ing. Maurizio Petta - Pozzoli Depurazione srl

15.45-16.00 Integrating permeable pavements into sustainable urban mobility planning

Margherita Evangelisti, Vincent Pons, Marco Maglionico



16.00-16.15 Coffee break

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PROGRAMME 18 NOVEMBER

Building A - Aula magna

16.15-16.30 Monitoring and maintenance of permeable pavements: a pathway to enhanced long-term performance

Anna Spandre, Carola Marella, Giovanna Grossi, Brandon Winfrey

16.30-16.45 From complexity to practice: testing the hydrological module of a simplified tool for Best Management Practices multiple benefit assessment

Roberta D'Ambrosio, Antonia Longobardi

16.45-17.00 The Digital Transformation of the Water Sector: Innovative Digital Solutions for Improved Water Distribution Systems Management

Ing. Francesca Zanello - Idrostudi srl

17.00-17.15 Emerging scenarios in urban wastewater management in Italy

Paolo Bevilacqua, Claudia Cafaro, Rosario Lo Cascio, Paolo De Alti, Maurizio Pessina

17.15-17.30 An innovative Decision Support System for the optimal location of sustainable urban drainage systems in Genoa

Enrico Creaco, Ilaria Gnecco, Carlo Giudicianni, Stefano Boilini, Shaahin Nazarpour, Anna Palla

17.30-17.45 Comparing Bias Correction Techniques of Reanalysis Data: A Case Study

Andrea Nobile, Francesca Zanello, Francesco Lubrano, Matteo Nicolini, Elisa Arnone



18.45-19.45 GUIDED TOUR IN CITY HISTORIC CENTER



20.30 SOCIAL DINNER

"Antico Ristorante Tommaseo"

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PROGRAMME
19 NOVEMBER
Building A - Aula magna

Session 2: Urban Water Management

Sub-session 2.1 – Sustainable Water Infrastructures & Nature-Based Solutions

8.45 Conveners intro

- Umberto Sanfilippo - Politecnico di Milano
- Caterina Capponi - Università degli studi di Perugia
- Stefano Pagliara - Università degli studi di Pisa

9.00-09.15 Energy Optimization Strategies for Water Pumping Stations in 2 the Piovese Area, managed by AcegasApsAmga S.p.A.

Luca Costa, Lorenzo Tirello, Armando Carravetta, Oreste Fecarotta, Caterina Capponi, Silvia Meniconi

9.15-9.30 Minimization of Power Demand through Optimized Pressure Management in Water Distribution Networks

Maria Cristina Morani, Armando Carravetta, Oreste Fecarotta, Renato Montillo

9.30-9.45 Tecnologie no-dig nelle reti idriche a pressione: intervento di risanamento di una condotta di acquedotto DN 1000 mm con sistema CIPP – UV liner e analisi dell'impatto socio-ambientale

Ing. Stefano Roberto Carnevali - Rotech s.r.l.

9.45-10.00 Effectiveness of a Scaled WDN Benchmark for Optimization Applications

Stefano Malavasi, Abazar Fathi, Giacomo Ferrarese

10.00-10.15 Integrating Nature-based Solutions in urban hydrology: the Cerisano case study

Stefania Anna Palermo, Michele Turco, Behrouz Pirouz, Anna Chiara Brusco, Patrizia Piro

10.15-10.30 Experimental Investigation of Pressure Reducing Valves under Transient Conditions: A Laboratory Study

Caterina Capponi, Debora Falocci, Bryan Karney, Bruno Brunone, Silvia Meniconi

10.30-10.45 Progetti di distrettualizzazione delle reti acquedottistiche: i casi di AQP e AQA

Ing. Bice Majone - Majone & Partners srl

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PROGRAMME 19 NOVEMBER

Building A - Aula magna

10.45-11.00 Hydraulic Modelling in Unsteady-State Conditions: PRV Analysis in the Trieste Water Network

Sara Prapotnich, Caterina Capponi, Silvia Meniconi, Bruno Brunone, Lorenzo Tirello, Andrea Rubin

11.00-11.15 Verde Pensile UNI11235 Progettare partendo dall'acqua

Arch. Maria Elena La Rosa - Harpo S.p.A.

11.15-11.30 Long term hydrological performance of a blue-green roof as urban nature-based solution

Andrea Petroselli, Ciro Apollonio, Raffaele Pelorosso, Flavia Tauro, Salvatore Grimaldi



11.30-11.45 Coffe break

11.45-12.00 Assessment of the applicability of the 'Sponge City' Approach to the metropolitan city of Bari

Claudia Cherubini, Gioacchino Francesco Andriani, Nicola Pastore

12.00-12.15 Feedforward and feedback control of a prototype for pressure regulation and hydropower generation in Water Distribution Network

Marco Maio, Giorgia Diglio, Francesco Di Menna, Gustavo Marini

12.15-12.30 Investigating the response of blue roofs under future climate scenarios

Gaetano Buonacera, Alberto Campisano, Antonino Cancelliere, Aurora Gullotta, Nunzia Rita Palazzolo, David Johnny Peres

12.30-13.00 Keylecture Note

Yiping Guo



13.00-14.00 Lunch break

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PROGRAMME 19 NOVEMBER

Building A - Aula magna

Sub-session 2.2 — Integrated Urban Water Systems & Water Governance

14.00 Conveners intro

- Gianfranco Becciu - Politecnico di Milano
- Enrico Creaco - Università degli studi di Pavia
- Rudy Gargano - Università degli studi di Cassino e del Lazio Meridionale

14.15-14.30 Toward Smarter Water Loss Management: Application of A Digital-Twin-Based Method for Leakage Localization

Vittorio Micai, Valentina Marsili, Filippo Mazzoni, Stefano Alvisi

14.30-14.45 ISOD@M: A new module for predictive analytics in asset management – A case study in Northern Italy. ISOIL

Ing. Fabio Veronesi, Ing. Luca Scansetti - ISOIL Industria Spa

14.45-15.00 Impact of Device Location on User-Induced Pressure Transients: Investigation on a Full-Scale Laboratory Plumbing System

Valentina Marsili, Debora Falocci, Caterina Capponi, Filippo Mazzoni, Stefano Alvisi, Bruno Brunone, Silvia Meniconi

15.00-15.15 Società del Gres, contributo reale alla sostenibilità per il sistema fognario del servizio idrico integrato

Ing. Lorenzo Vidus Rosin - Società del Gres S.P.A.

15.15-15.30 Spatial Scaling Effects in Water Demand

Roberto Magini, Maria Antonietta Boniforti, Roberto Guercio

15.30-15.45 Anomaly detection at the DMA-level via Isolation Forest

Chiara Cincotta, Lorenzo Pedroni, Michele Lombardi, Giuditta Nicoli, Cristiana Bragalli

15.45-16.00 Come è cambiata la qualità del refluo urbano; sviluppo delle tecnologie di pompaggio per la massima efficienza nelle nuove condizioni operative

Geom. Alessandro Ancona - Xylem Water Solutions Italia S.r.l.



16.00-16.15 Coffe Break

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PROGRAMME 19 NOVEMBER

Building A - Aula magna

16.15-16.30 I sistemi di drenaggio in BIM: dal dato al modello, dall'opera al digital twin

Ing. Alberto Bartoli - Ingegneri Riuniti spa

16.30-16.45 Detection and classification of anomalies in water distribution systems

Maria Stergiadi, Farshid Mahmoudabadi, Andrea Menapace, Anton Dignös, Johann Gamper, Maurizio Righetti

16.45-17.00 Detection of deteriorated areas in water distribution networks exploiting chlorine measurements in a Bayesian framework

Benedetta Sansone, Alfonso Cozzolino, Roberta Padulano, Cristiana Di Cristo, Giuseppe Del Giudice

17.00-17.15 Understanding the behavior of CSS Under Dry and Wet Weather Conditions for Predictive Maintenance Applications

Natnael Hailu Mamo, Roberto Gueli, Giovanni Maria Farinella, Luca Cavallaro, Rosaria Ester Musumeci

17.15-17.30 Prediction of DMAs Pipe Failures Rehabilitation Priorities

Cristian Cappello, Carla Tricarico, Rudy Gargano, Angelo Leopardi

17.30-17.45 Optimizing the Sectorization of Water Distribution Networks

Lorenzo Carmelo Zingali, Michele Monaci, Cristiana Bragalli

17.45-18.00 AI-based Early Warning System for Flood Risk Management in Heritage City

Raffaele Albano, Muhammad Asif, Ruggero Ermini, Aurelia Sole

18.00-18.15 Optimising Remote Sensor and Nature-Based Solutions Allocation based on Hydrological 2D-1D numerical models: The Cerisano case study

Carlos Humberto Aparicio Uribe, Beniamino Russo, Michele Turco, Stefania Anna Palermo, Mohammed Mudhafar Saleh, Patrizia Piro

18.15 Debate and closure

CSDU CSSI DAYS²⁵



PROGRAMME
20 NOVEMBER
Building A - Bachelet



SUNRISE PROJECT - Final event

“Sustainable Urban areas by Nature-based solutions implementation to mitigate climate impacts and achieve a Resilient, Innovative and Smart Environment”

09:15 Registration

09:45 Institutional greetings

The cascade founding calls of the RETURN Project

10:00 Prof. Mario Losasso
Return Project - SPOKE 5 TS1 - Università degli studi di Napoli “Federico II”

10:15 Prof. Luca Cozzolino
A design experience: PARADIGM - Pluvial Adaptation and Resilience scenarios for urban Areas through improved Data of Intense rainfall, Good practices, and water Management

10:45 Prof. Patrizia Piro
The SUNRISE Project: from vision to value - a roadmap

SUNRISE project results

11:00 Prof. Andrea Petroselli, Ing. Michele Turco
WP2 - Experimental activities

11:40 Prof.ssa Giovanna Grossi, Prof. Giuseppe Tito Aronica, Prof. Enrico Creaco, Prof. Corrado Gisonni, Prof. Federico Roman
WP3 - Modeling, optimization algorithms and simplified procedures

12:30 Prof.ssa Patrizia Piro, Prof. Raffaele Albano
WP4 - Database creation

12:45 Prof. Giuseppe Tito Aronica
WP5 - Guidelines definition

13:00 Ing. Michele Turco
WP1 e WP6 - Management and dissemination activities

13:30 Lunch break

15:00 Round Table “Gestione dell’acqua: sfida nel mondo in evoluzione” *coordinated by Prof. Federico Roman*

Prof.ssa Patrizia Piro - Chair CSDU

Prof. Bruno Brunone - Chair CSSI

Ing. Bice Majone - Majone&Partners

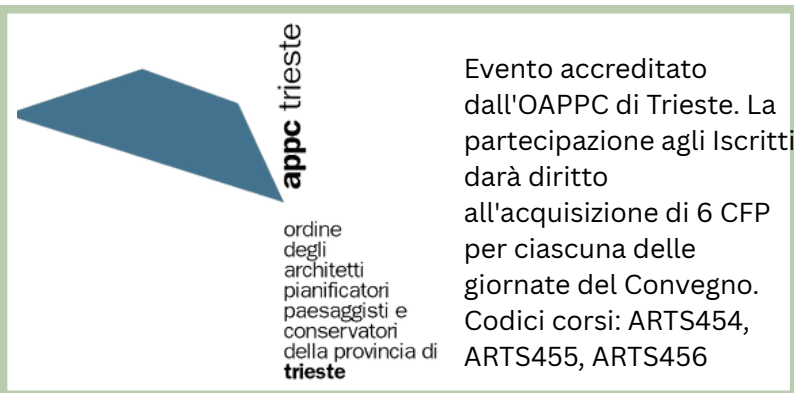
with participation of: extended partnerships, research institutes, territorial authorities and Stakeholders in flood risk management, professionals and companies.

16:30 Closure

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