

This short course, aimed at young researchers and technicians from the Public Administration, will illustrate several shore protection methods, with especial regard toward soft and innovative techniques that are applicable to the Mediterranean coasts.

The training will be held in English language, and will take place in Marina di Massa (Italy) from 17 to 20 September 2007. It will be articulated in both theoretical classes and field trips along the coast.

On 21 September 2007, there will be a national scientific meeting on the subject of innovative techniques for shore defence - an additional event to which participants of this course are welcome to attend.



IN COLLABORATION WITH:

- * Project BEACHMED-e
- * Project IGCP-UNESCO 515
- * Rete Italiana per la Costa (RIC-ENCORA)
 - * Regione Toscana
 - * Provincia di Massa Carrara
 - * Comune di Carrara
 - * Comune di Massa
 - * Comune di Montignoso
- * Autorità Portuale Marina di Carrara
- * C.C.I.A.A. di Massa Carrara
- * Associazione Riviera Apuana
- * Confesercenti, Massa Carrara
 - * S.I.B., Massa Carrara
 - * F.I.B.A., Massa Carrara

SHORT COURSE ON SHORE PROTECTION STRATEGIES

WORKSHOP ON INNOVATIVE SHORE PROTECTIONS STRATEGIES

17 - 21 SEPTEMBER 2007
MARINA DI MASSA



Torre Marina
Via Fortino di San Francesco, 1
Marina di Massa (MS) - ITALY

**MONDAY 17 SEPTEMBER
- TORRE MARINA-**

- 10 **WELLCOME ADDRESS**
30 *Assessor for the Environment of the Provincia di Massa Carrara*
Lino Giorgini
-
- 10 **ROUND TABLE**
45 Pierluigi Aminti, Giuliano Fierro, Alberto Lamberti, Alberto Noli, Enzo Pranzini, Umberto Simeoni
Traditional coastal defences: did they fail?
-
- 12 **LUNCH**
30
-
- 14 Allan Williams
00 Swansea Institute, Wales
Hard and soft shore protection: beach user expectancies
-
- 15 Giovanni B. La Monica
00 University of Rome "La Sapienza", Italy
Beach nourishment: inland vs. off-shore borrow materials
-
- 16 Francesco Chiocci
00 University of Rome "La Sapienza", Italy
Beach nourishment: offshore sediment research techniques
-
- 17 Doug Sherman
00 University of Southern California, USA
Non-traditional approaches to shore protection in low-energy environments
-
- 18 Piero Ruol -
00 University of Padova, Italy
Beach nourishment design

**TUESDAY 18 SEPTEMBER
- TORRE MARINA-**

- 9 Enzo Pranzini
00 University of Florence, Italy
Artificial gravel beaches
-
- 9 Leopoldo Franco
45 University of Rome "Tre", Italy
Unconventional shore protection designs
-
- 10 Alberto Lamberti
30 University of Bologna, Italy
Low-crested breakwaters: wave induced currents and morphological response
-
- 11 Lorenzo Cappiotti
45 University of Florence, Italy
Modelling of waves and currents in coastal areas
-
- 12 Mona Kaiser
30 University of Qatar, Qatar
Optimizing coastal defences through the use of numerical models
-
- 13 **LUNCH**
15
-
- 14 Pierluigi Aminti - University of Florence, Italy
15 *Rehabilitation/convertng of old coastal defences*
-
- 15 Hocine Oumeraci
30 Leichtweiss Inst. fur Wasserbau, Germany
Geotextile in coastal protection with particular focus on hydraulic stability
-
- 17 Nicholas C. Kraus - Coastal & Hydraulics Laboratory, USA
00 *Are the new coastal defence designs old?*
-
- 18 First field trip presentation
00

**WEDNSDAY 19 SEPTEMBER
- TORRE MARINA-**

- 8 **FIELD TRIP ONE**
30 *Mt. Marcello - Marinella di Sarzana - Marina di Carrara - Marina di Massa - Marina di Ronchi*
-
- 13 **LUNCH**
00
-
- 15 Leonardo Damiani
00 University of Bari, Italy
Drained beaches
-
- 16 Karl Nordstrom, Doug Sherman
00 Rutgers University; University of Southern California, USA
Coastal dune dynamics and protection
-
- 17 Antonio Petrillo
00 University of Bari, Italy
Three-dimensional physical models in shore protection planning
-
- 18 Second field trip presentation
00

**THURSDAY 20 SEPTEMBER
- TORRE MARINA-**

- 8 **FIELD TRIP TWO**
30 *San Rossore Regional Park - Marina di Pisa - Tirrenia - Calambrone*
-
- 13 **LUNCH**
00
-
- 15 Augustin Sanchez-Arcilla
00 University of Catalunya, Spain
Low-crested breakwaters. Functional design
-
- 15 Karl Nordstrom
45 Rutgers University, USA
Gaining beach and loosing....what?
-
- 16 Allan Williams
30 Swansea Institute, Wales
Safety problems in protected beaches - warning systems
-
- 17 Lorenzo Venzi
15 University of Tuscia, Italy
Beach nourishment: cost/benefit analysis
-
- 18 Adrian Stanica - National Insitute of Marine Geology and Geoecology, Romania
00 *Shore protection structures: cost/benefit analysis*

WORKSHOP

GRUPPO NAZIONALE PER LA RICERCA SULL'AMBIENTE COSTIERO

OPÉRATION BEACHMED-e : LA GESTION STRATÉGIQUE DE LA DEFENSE DES LITTORAUX POUR UN DÉVELOPPEMENT SUOTENABLE DES ZONES COTIERES DE LA MEDITERRANÉE

P.R.I.N. : RIPASCIMENTI LITORALI IN DIFFERENTI ASSETTI GEOMORFOLOGICI E SEDIMENTARI: METODOLOGIE INNOVATIVE PER LA DEFINIZIONE DELLA LORO EFFICACIA

INNOVATIVE SHORE PROTECTIONS STRATEGIES

21 SEPTEMBER 2007

SALA CONVEGNI APT - SALA CONVEGNI TORRE MARINA MARINA DI MASSA

DETAILED PROGRAM IN ATTACH

WHEN TIME WHERE

Monday 17	21:00	Dinner offered by "Bagno Margherita"
Tuesday 18	21:00	Dinner offered by "Bagno Monia"
Wednesday 19	21:00	Dinner at Bagno "Margherita"
Thursday 20	21:00	Dinner at "Bagno Monia"

DINNERS PROGRAM

Allineamento Cartografico e Stampa: Meri - Aulla e Massa (MS). © Tutti i diritti di riproduzione, elaborazione anche parziale riservati.



- 1 Servizio di Assistenza Sanitaria
- 2 Farmacia
- 3 Vigili Urbani
- 4 Commissariato di P.S.
- 5 Carabinieri
- 6 Poste e Telec. Ufficio Cambio
- 7 Chiesa Cattolica
- 8 Ostello della Gioventù
- 10 Taberna Frigida
- 11 Mercatino permanente
- 12 Tennis
- 13 Piscina
- 14 Pesca sportiva
- 15 Equitazione
- 16 Cinema
- 17 Bocciodromo
- 18 Discoteca e Sala da Ballo
- 19 Istituto Alberghiero
- 20 Taxi e Bus
- 21 Piscina Comunale
- 22 Ufficio decentrato del Comune
- 23 Campo di calcio
- 24 Campo di calcetto
- 25 Pattinaggio
- 26 ACI (Automobile Club d'Italia)
- 🏠 Agenzia per il Turismo

- 1 Public Health Service
- 2 Chemist
- 3 Policemen
- 4 Police Station
- 5 Carabinieri
- 6 Postal, telegraphic services - Exchange
- 7 Roman Catholic Church
- 8 Youth hostel
- 10 Taberna Frigida Parish Church
- 11 Permanent Market
- 12 Tennis
- 13 Swimming pool
- 14 Sports fishing
- 15 Riding
- 16 Cinema
- 17 Italian bowling
- 18 Discotheque
- 19 Hotel Institute
- 20 Taxi - Bus
- 21 Municipal swimming pool
- 22 Town delegation
- 23 Football field
- 24 Mini football field
- 25 Skating
- 26 Italian Automobile Club (ACI)
- 🏠 Tourist Board

- 1 Service d'Assistance Sanitaire
- 2 Pharmacie
- 3 Agents of police
- 4 Commissariat de police
- 5 Carabiniers
- 6 Bureau de change (P.T.)
- 7 Eglise Catholique
- 8 Auberge de la jeunesse
- 10 Eglise Taberna Frigida
- 11 Marché permanent
- 12 Tennis
- 13 Piscine
- 14 Pêche sportive
- 15 Equitation
- 16 Cinéma
- 17 jeu de boules
- 18 Discotheque
- 19 Ecole hôtelière
- 20 Taxi - Bus
- 21 Piscine municipale
- 22 Délégation de mairie
- 23 Champ de football
- 24 Mini champ de football
- 25 Patinage
- 26 Automobile Club Italie (ACI)
- 🏠 Office de Promotion Touristique

- 1 Ärztlicher Betreuungsdienst
- 2 Apotheke
- 3 Stadtpolizei
- 4 Polizei-kommissariat
- 5 Carabinieri
- 6 Postamt mit Wechsel
- 7 Katholische Kirche
- 8 Jugendherberge
- 10 Taberna Frigida Kirche
- 11 Täglicher Markt
- 12 Tennis
- 13 Schwimmbad
- 14 Angelfischerei
- 15 Reitschule
- 16 Kino
- 17 Boccienspielplatz
- 18 Diskothek
- 19 Hotelfachschule
- 20 Taxi - Bus
- 21 Schwimmbad
- 22 Gemeinde Delegation
- 23 Fussballfeld
- 24 kleines Fussballfeld
- 25 Rollschuhlaufen
- 26 Italienischer Automobilclub (ADAC)
- 🏠 Fremdenverkehrsamt

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Marina di Massa



**APT
MASSA - CARRARA**
AGENZIA PER IL TURISMO