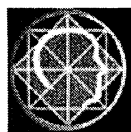


"Access to Research Infrastructures"



WAVELAB

Laboratori
d'Enginyeria
Marítima



Call for proposals

1st call 15/01/2000

(Open until 15/05/2000)

2nd call 15/01/2001

3rd call 15/01/2002

The **Canal de Investigaciones y Experimentaciones Marítimas (CIEM)** has been selected as large infrastructure of the EU, under the *Improving the Human Research Potential and the Socio-Economic Knowledge Base (1998-2002)* ("Access to Research Infrastructures" Activity) of the 5th Framework Programme of the EU, which *objective* is to sponsor new opportunities for research teams to obtain access to the major research infrastructures. The Programme covers all the travel and subsistence expenses.

The Large Wave Flume CIEM (built in 1992), *Maritime Engineering Laboratory (LIM)* of the *Catalonia University of Technology (UPC)*, is one of the largest wave flumes in the world for experimentation in the field of maritime harbour and coastal engineering. Its dimensions (100m depth, 3m width and 5m depth) and performances make it a very suitable tool for experimental analyses close to full-scale. The **observational equipment** available in this facility is the following: 5 twin-wire resistance wave gauges, 17 pressure transmitters, 8 electromagnetic S-type 2-component current meters and PC-controlled bottom profiler for morphodynamic tests.

Interested eligible researchers (**European Community Member States or Associated States**) should submit a **description of the proposal** to Prof. Agustin Sánchez-Arcilla (info.lim@upc.es) including: Objectives / Motivation of the research project / Work programme / Name and nationalities of the proposers (User Group) / An estimation of required days of use of the facility (including construction of the physical model, experimental set-up, and removing of the model).

Further information: (Mr. J. Pineda) javier.pineda@upc.es or visite the WAVELAB web site: <http://lim-ciirc.upc.es/eng/CIEM/index.htm>

www.ilst.ac.uk/virtualczm.html



THE COASTAL EDUCATION AND RESEARCH FOUNDATION

Post Office Box 210187
Royal Palm Beach, FL 33421, USA

1656 Cypress Row Drive
West Palm Beach, FL 33411, USA

Officers of the Foundation

Founded in 1983 by: Charles W. Finkl, Sr.,
Charles W. Finkl, Jr., Rhodes W. Fairbridge,
and Maurice L. Schwartz

President & Executive Director: Charles W. Finkl, Jr.
Vice President: Rhodes W. Fairbridge

Secretary-Treasurer: Charles J. Miller (Deceased)

Board of Directors

P. Bruun	R. P. Paskoff
J.-C. Dionne	M. L. Schwartz
R. Dolan	I. Shennan
T. Healy	A. D. Short
D. Hopley	D. J. Stanley
R. Huff	

The Coastal Education and Research Foundation (*CERF*) is a nonprofit corporation dedicated to the advancement of the coastal sciences. The Foundation is devoted to the multi-disciplinary study of the complex problems of the coastal zone. The purpose of *CERF* is to help translate and interpret coastal issues for the public and to assist professional research and public information programs. The Foundation specifically supports and encourages field and laboratory studies on a local, national, and international basis. Through the medium of scientific publications, television, and radio *CERF* brings accurate information to the public and coastal specialists on all aspects of coastal issues in an effort to maintain or improve the quality of shoreline resources.

Because *CERF* is concerned with broad environmental issues, our efforts concentrate on significant problems such as maintenance of good quality (potable) water with adequate supply, and hazards associated with potential beach erosion, flooding, and susceptibility of developed shorelines to storm surge and wave attack. By focusing attention on these potential man-made and natural hazards, it is hoped that our research efforts will help others improve the quality of life in diverse coastal areas. *CERF* thus aims to stimulate awareness of coastal (marine and freshwater shorelines) land and water problems; initiate and foster research and innovation to promote long-term coastal productivity; establish an educational forum for the debate of contentious coastal issues; and develop new principles and approaches for enlightened coastal management, and encourage their adoption and use.

CERF members provide a basis for cooperative investigation of biophysical resources found in open and naturally protected coastal regions, estuaries, large inland bodies of water bounded by shorelines, wetlands, and other coastal environments. Joint investigative efforts by faculty, students, and staff at various institutions span a wide and diversified range of interrelated topics that are relevant to solutions of today's dynamic problems. It is hoped that these combined attempts to better understand the nature of coastal processes will help forestall what may become contentious issues of tomorrow.

CERF MEMBERSHIP

Members are individuals, institutions, and corporations that support the aims of the foundation through personal and group efforts or by donations. Memberships are available in different categories with privileges.

Publications of the Foundation:

CERF Quarterly Journal:

Journal of Coastal Research (JCR) (ISSN 0749-0208).

JCR Special Issues and Reports:

- No. 1 (1986): Late Quaternary Sea-Level Changes and Coastal Evolution (out of print)
- No. 2 (1986): Annotated Bibliography of Quaternary Shorelines, Fourth Supplement 1978–1983 (out of print)
- No. 3 (1988): Dune/Beach Interaction, Norbert P. Psuty (ed.). [\$US 45.00]
- No. 4 (1988): The Effects of Seawalls on the Beach, N. C. Kraus and O. H. Pilkey (eds.). [\$US 45.00]
- No. 5 (1989): High Concentration Cohesive Sediment Transport, A. J. Mehta and E. J. Hayter [\$US 45.00]
- No. 6 (1990): Artificial Beaches, M. L. Schwartz and E. C. F. Bird (eds.). [out of print]
- No. 7 (1990): Rational Design of Mound Structures, N. Kobayashi and M.A. Losada (eds.). [\$US 45.00]
- No. 8 (1991): Impacts of Hurricane Hugo: September 10–22, 1989, C. W. Finkl and O. H. Pilkey (eds.). [\$US 45.00]
- No. 9 (1990): Proceedings of the Skagen Symposium (September 1990) [out of print]
- No. 10 (1992): Simplified Technical Summary of the Complete Delta Works [out of print]
- No. 11 (1991): Geology of Long Island Sound, P. T. Gayes, R. S. Lewis, and H. J. Bokuniewicz (eds.). [\$US 45.00]
- No. 12 (1994): Coastal Hazards, C. W. Finkl (ed.). [\$US 60.00]
- No. 13 (1995): Atlas of Coastal Geomorphology and Zonality, D. Kelletat [\$US 45.00]
- No. 14 (1995): Impacts of Sea-Level Rise on Developing Countries, R. Nicholls and S. P. Leatherman [\$US 45.00]
- No. 15 (1993): Beach and Surf Zone Morphodynamics, A. D. Short (ed.). [\$US 45.00]
- No. 16 (1992): International Bibliography of Coastal Geomorphology, D. Sherman (ed.). [\$US 45.00]
- No. 17 (1995): Holocene Cycles: Climate, Sea Level, and Coastal Sedimentation, C. W. Finkl (ed.). [\$US 60.00]
- No. 18 (1993): Beach/Inlet Processes and Management, A. J. Mehta (ed.). [\$US 45.00]
- No. 19 (1996): International Bibliography of Coastal Geomorphology, 1991–1994, D. Kelletat (ed.). [out of print]
- No. 20 (1994): Coastal Wetland Loss in Louisiana, D. F. Boesch (ed.). [\$US 45.00]
- No. 21 (1995): Impacts of Hurricane Andrew (1992), G. W. Stone and C. W. Finkl (eds.). [\$US 45.00]
- No. 22 (1995): The Polish Coast: Past, Present & Future, K. Rotmicki (ed.). [\$US 45.00]
- No. 23 (1996): Understanding Physical Processes at Inlets, A. J. Mehta (ed.). [\$US 45.00]
- No. 24 (1998): Island States at Risk, S. P. Leatherman (ed.). [\$US 45.00]
- No. 25 (1997): Sediment Transport and Buoyancy in Estuaries, D. G. Aubrey (ed.). [\$US 45.00]
- No. 26 (1998): Proceedings of the International Coastal Symposium (ICS '98), C.W. Finkl and P. Bruun (eds.). [\$US 60.00]
- No. 27 (2000): Environmental Impacts of Europe, M. T. Delafontaine *et al.* (eds.) [In Production]
- No. 28 (1999): Coastal Erosion Mapping and Management, S.P. Leatherman and M. Crowell (eds.). [\$US 45.00]

Journal of Coastal Research

VOL. 16, NO. 2 (pages 247-518)

SPRING 2000

CONTENTS

Regular Papers

Longshore Currents and Sediment Transport along Kannirajapuram Coast, Tamilnadu, India	V. Sanil Kumar, P. Chandramohan, K. Ashok Kumar, R. Gowthaman, and P. Pednekar	247
Hydrodynamics and Cross-Shore Sediment Transport in the Swash-Zone of Natural Beaches: A Review	Tony Butt and Paul Russell	255
Public Perceptions of the Environmental Changes to the Thames Estuary in London, U.K.	Sylvia Tunstall	269
Temporal Variations in a Tropical Soft-Bottom Community, Venezuela	David Bone and Eduardo Klein	278
Characteristics and Significance of a Sub-tropical 'Low Wooded Island': Green Island, Moreton Bay, Australia	D.T. Neil	287
Sedimentological Parameters and Seagrasses Distributions as Indicators of Anthropogenic Coastal Degradation at Monterosso Bay (Ligurian Sea, NW Italy)	William Cavazza, Francesco Immordino, Lorenzo Moretti, Andrea Peirano, Angela Pironi, Federica Ruggiero	295
Holocene Relative Sea Level Changes in Disko Bugt, West Greenland	Morten Rasch	306
Sediment Dynamics in the Lowermost Amazon	Helenice Vital and Karl Statterger	316
Distributional Pattern of Seagrasses in The Canary Islands (Central-East Atlantic Ocean)	N. Pavón-Salas, R. Herrera, A. Hernández-Guerra, and R. Haroun	329
Hillsboro Inlet and the Lighthouse: One Hundred and Fifteen Years of Change	David F. Butler and Raymond McAllister	336
Shoreline Erosion on Lake Hawea, New Zealand, Caused by High Lake Levels and Storm-Wave Runup	R.M. Kirk, P.D. Komar, J.C. Allan, and W.J. Stephenson	346
Iron-Stained Quartz to Distinguish Holocene Deltaic from Pleistocene Alluvial Deposits in Small Core Samples	Daniel Jean Stanley, Arghya K. Hait, and Thomas F. Jorstad	357
Short-Term Consequences of Nourishment and Bulldozing on the Dominant Large Invertebrates of a Sandy Beach	Charles H. Peterson, Darren H.M. Hickerson, and Gina Grissom Johnson	368
Partial Standing Waves on a Steep Slope .. Nobuhisa Kobayashi, Giuseppe R. Tomasicchio, and Bruno Brunone		379
Ask Nature to Protect and Build-up Beaches	R.H. Charlier and C.P. De Meyer	385
Germination and Dormancy in Seeds of <i>Sapium sebiferum</i> (Chinese Tallow Tree)	Guy N. Cameron, Edward G. Glumac, and Bruce D. Eshelman	391
Comparison of the Performance of Three Adjacent and Differently Constructed Beach Nourishment Projects on the Gulf Peninsula of Florida	Richard A. Davis, Jr., Ping Wang, and Brad R. Silverman	396
Influence of Inner-Continental Shelf Geologic Framework on the Evolution and Behavior of the Barrier-Island System Between Fire Island Inlet and Shinnecock Inlet, Long Island, New York	William C. Schwab, E. Robert Thieler, James R. Allen, David S. Foster, B. Ann Swift, and Jane F. Denny	408
Deforestation and Coastal Erosion: A Case from East Brazil	J. Addad and M.A. Martins-Neto	423
Predicting Threshold Entrainment Mass for a Boulder Beach	Mark S. Lorang	432
Depth of Disturbance in Mesotidal Beaches during a Single Tidal Cycle	G. Anfuso, F.J. Gracia, J. Andrés, F. Sánchez, L. Del Río, and F. López-Aguayo	446
Massive Sedimentation Events at the Mouth of the Rotterdam Waterway	P.A.J. Verlaan and R. Spanhoff	458
Selective Sorting, Storage and Progressive Dilution of Sediment in Two Tropical Deltas, Veracruz, Mexico	Zhongyuan Chen, Daniel Jean Stanley, and Eric E. Wright	470
An Empirical Energetics-based Formulation for the Cross-shore Suspended Sediment Transport by Bound Infragravity Waves	B.G. Ruessink	482

Departments

Discussion	494	News and Announcements	514
Reply	496	Book Review	515
Erratum	498	Book Received	516
Membership Directory	501	Instructions to Authors	517
Coastal Calendar	513		