INTERNATIONAL COASTAL SYMPOSIUM - 2000

Rotorua, New Zealand
April 24 - 28, 2000

Conference Theme

"Challenges for the 21st Century in Coastal Science, Engineering and Environment"

First Announcement and Call for Abstracts

http://www.erth.waikato.ac.nz/ics2000/ics2000.htm

Symposium Overview

ICS 2000 commencing on Easter Monday of the year 2000 is the 6th in a series of International Coastal Symposia initiated by Per Bruun. It is a multi-disciplinary international symposium convened for scientists, engineers, planners and managers to discuss the latest advance in the science, engineering and environmental issues of coastal processes. The symposium will provide a high-level technical forum for exchange of information among the fields of coastal science, engineering and environment.

The Conference provides a forum for the final meeting of SCOR Working Group 106 on Muddy Coasts, and for a special meeting of the Commission on Coastal Systems of the International Geographical Union.

The theme of the symposium, "*Challenges for the 21st Century in Coastal Sciences, Engineering and Environment*" is chosen to promote research and understanding of coastal sedimentary processes and associated issues to meet the challenges for the 21st century.

Objectives

The objectives of ICS 2000 are to:

- Promote greater awareness of scientific, engineering, and technical issues related to coastal processes and sedimentation.
- Highlight diversity of multidisciplinary approaches to studies of coastal environments and their management.
- Promote ways of using engineering and scientific knowledge to improve coastal environmental management and the decision-making process.
- Encourage the study of coastal processes to support application of best management practices in both developed and remote coastal zones.

Key Topics

A. Coastal Sediment-Transport Processes

- theory and measurement
- parabathic and diabathic transport
- sediment transport at inlets
- estuarine sediment transport
- impacts of inlets on the coast
- field data collection, and laboratory measurements

B. Coastal Engineering Applications

- sediment budget assessments
- numerical modelling
- beach replenishment
- effects of large scale dredging
- performance of erosion-control structures
- GIS and remote sensing for coastal analysis

C. Coastal Geomorphology [sponsored by Commission on Coastal Systems, IGU]

- large-scale coastal evolution
- time scale of beach profile and shoreface change
- shoaling, and migration of channels
- storm impacts on shoreline change

D. Muddy Coasts [sponsored by SCOR Working Group 106]

- cohesive sediment transport
- fundamental mud deposition processes
- mud transport
- beaches on muddy and sheltered coasts
- stabilisation of muddy coasts
- dredging and disposal of muddy sediments
- tidal influences on muddy coasts

E. Environmental Aspects of Coastal Development

- coastal hazard and setback assessment
- water quality and pollution from coastal development
- detection of environmental degradation
- monitoring ecological impacts
- maintaining coastal landscape

Conference Structure

Conference registration, the official opening and the keynote addresses will be held on the evening of Day 1. Days 2 and 3 will involve morning presentations and afternoon field trips. Day 4 is an all day field trip. Day 5 will comprise a full day of paper presentations.

Special events include an opening "ice-breaker" evening with "Powhiri" (cultural welcome) preceding the plenary session keynote address. A conference dinner will be held in the evening after the full day field trip.

Conference Venue: Rotorua, Bay of Plenty, New Zealand

Rotorua is a major tourist town centred in the scenic lakes district of an active volcanic and geothermal zone about an hour's traveling time from the scenic lee coast of the Bay of Plenty. Attractions are numerous including: active geothermal areas and geysers; nearby Mt Tarawera (which devastatingly erupted in 1886); trout fishing; white water rafting; scenic flights; White Island active volcano; surfing on the coast; and many more.

Field Excursions and Site Visits

- ½ day: Ohiwa Harbour, Ohope barrier spit erosion, Rangitaiki coast littoral drift
- ½ day: Tauranga Harbour - barrier island and tombolo enclosed estuarine lagoon. Port of Tauranga dredging and disposal. Beach renourishment, artificial surfing reef.
- Full day: Miranda shelly chenier ridges and muddy coast, Firth of Thames; storm surge; Tairua Harbour Cam-era site; beach erosion, coastal management and setback at Waihi Beach.

Symposium Proceedings

To be published in a special issue of JCR. Only those papers presented at the conference will be eligible for inclusion in the JCR Special Issue.

Initial Sponsors

- Coastal Education and Research Foundation
- Commission on Coastal Systems, of IGU
- NIWA
- Port of Gisborne Limited
- SCOR
- University of Waikato

Call for Papers

Please send an expression of interest to ics2000@waikato.ac.nz or mail/fax the attached form to:

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Organising Committee and Technical Secretariat

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Dr Fengming Tian (University of Waikato)

Key Dates

1 November 1999:
for submission of abstract

15 December 1999:
notification of acceptance

1 February 2000:
submission of full paper in correct *JCR* format

ICS 2000

for submission of technical papers

Abstract submission deadline: 1 November 1999

STATEMENT OF INTEREST

Principal author.....
Presenter (if different from author).....
Affiliation.....
Postal address.....
.....
.....
Telephone.....Fax.....Email.....
Co-authors.....
Preferred presentation: oral:.....poster:.....

Paper title.....
.....
.....
Please limit your abstract to 1 A4 page.

Please fax this form to: Professor Terry Healy +64-7-8384061

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For further information, please visit the Conference web site:

http://www.erth.waikato.ac.nz/ics2000/ics2000.htm

Departments

Published by the Coastal Education and Research Foundation, P.O. Box 210187, Royal Palm Beach, FL 33421-0187, USA.

THE COASTAL EDUCATION AND RESEARCH FOUNDATION

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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 ecourages 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 (1998): Environmental Impacts of Europipe, 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

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Regular Papers