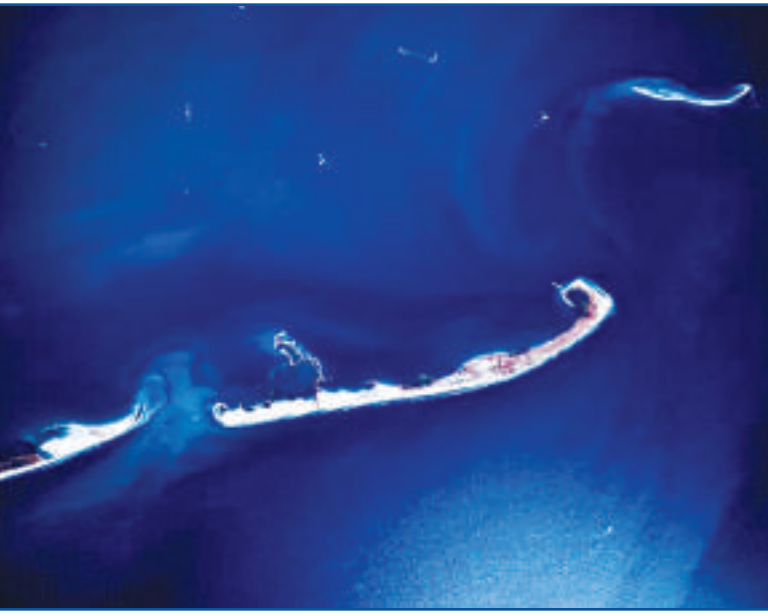
Coastal Sediments '07

INTERCONTINENTAL HOTEL
NEW ORLEANS, LOUISIANA, USA
MAY 13-17, 2007



Trinity Island, Isle Dernieres, Louisiana
October 1990
Courtesy USGS

COASTAL ENGINEERING AND SCIENCE IN CASCADING SPATIAL AND TEMPORAL SCALES

Sponsor of Excellence

Gold Sponsor

Celebrating 30 years of the
Coastal Sediments Conference Series

SUNDAY, MAY 13

17:30		Opening Mixer

MONDAY, MAY 14

8:30		Opening Ceremony
10:20	A1	Sediment Transp. Fundamentals I
	B1	Louisiana Coast
	C1	Coastal Inlets I
	D1	Swash Zone
13:30	A2	Sediment Transp. Fundamentals II
	B2	Mississippi River Delta
	C2	Coastal Inlets II
	D2	Barrier Island Breaching
15:40	A3	Sediment Transp. Fundamentals III
	B3	Marshes and Wetlands
	C3	Mud Coasts I
	D3	Overwash and Washover

TUESDAY, MAY 15

8:10	A4	Longshore Transport
	B4	Deltas and River Mouths
	C4	Texas Inlets
	D4	Sand Bars, Beach Cusps
10:20	A5	Sediment Transp. Fundamentals IV
	B5	Storms I
	C5	Coastal Inlets III
	D5	Sand Waves and Channels
13:30	A6	Shoreline Change Modeling
	B6	Storms II
	C6	Estuaries
	D6	Beach Nourishment
15:40	A7	Observed Shoreline Change
	B7	Tsunami I
	C7	Mud Coasts II
	D7	Case Studies

WEDNESDAY, MAY 16

8:10	A8	Gravel Coasts I
	B8	Tsunami II
	C8	Regional Processes I
	D8	Dredging
10:20	A9	Gravel Coasts II
	B9	Sea Level Rise I
	C9	Regional Processes II
	D9	Beach Nourishment & Structures
13:30	A10	Gravel Coasts III
	B10	Sea Level Rise II
	C10	LIDAR and ARGUS
	D10	Seafloor Mapping
15:40	A11	Dunes and Profiles
	B11	Wind-Blown Sand
	C11	Remote Sensing
17:30		Closing Mixer

COOPERATING ORGANIZATIONS

American Shore and Beach Preservation Association

Department of Oceanography & Coastal Sciences, LSU

Geological Society of America

International Association of Geomorphologists

International Union of Geological Sciences

CONFERENCE STEERING COMMITTEE

Nicholas C. Kraus, Ph.D., Co-Chair
U.S. Army Engineer Research & Development Center

William G. McDougal, Ph.D., P.E., Co-Chair
University of Florida

Hans Hanson, Ph.D., Coastal Dynamics Conference Liaison
University of Lund, Sweden

Julie Dean Rosati, P.E., Short Course Coordinator
U.S. Army Engineer Research & Development Center

Luke Le Bas, P.E., Technical Tour Coordinator
Louisiana Department of Natural Resources

Ping Wang, Ph.D., Logistics Coordinator
University of South Florida

S. Jeffress Williams, Exhibits and Sponsorships Coordinator
U.S. Geological Survey, Coastal and Marine Geology Program

Harley S. Winer, Ph.D., P.E., Technical Tour Coordinator
U.S. Army Corps of Engineers, New Orleans District

Restoration of Chaland Headland, Louisiana
Courtesy Louisiana Department of Natural Resources

CONFERENCE EXHIBITORS

Aanderra Instruments, Inc.
American Vibracore Services, Inc.
Aquatec Group LTD
C.H. Fenstermaker & Associates
Louisiana Department of Natural Resources
Moffatt & Nichol
Nortek USA
N.S. Nettles & Associates
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Tensar Earth Technologies, Inc.
TerraSond
U.S. Army Corps of Engineers
- Coastal Inlets Research Program
- Navigation Systems Program
- Regional Sediment Management Program
- System-Wide Water Resources Program

U.S. Geological Survey
- Coastal and Marine Geology Program

University of New Orleans
Weeks Marine, Inc.
WL|Delft Hydraulics

Exhibits will be located in **Le Salon & the La Salle Foyer** throughout the conference, with coffee breaks and Monday luncheon served in this area.

CONFERENCE SPONSORS

Sponsorship of Excellence
Louisiana Department of Natural Resources
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Applied Coastal Research and Engineering, Inc.

We thank the exhibitors and sponsors for their gracious support of Coastal Sediments '07.

WELCOME

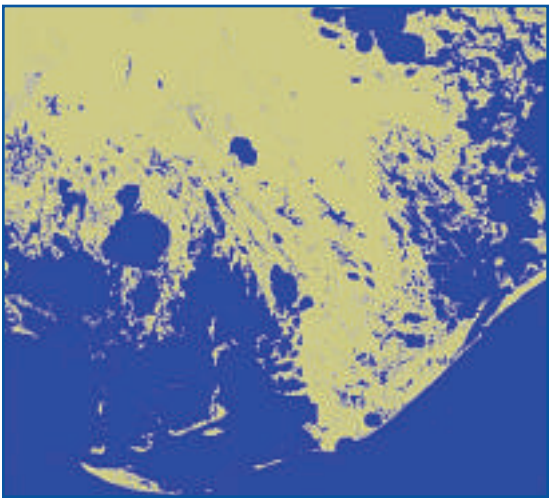
The conference Steering Committee and the Coasts, Oceans, Ports, and Rivers Institute (COPRI) of the American Society of Civil Engineers welcome you to the Sixth International Symposium on Coastal Engineering and Science of Coastal Sediment Processes—**Coastal Sediments '07**, covering all physical aspects of coastal sediment transport and morphology change. This year, we celebrate the rich heritage of the 30-year anniversary since the first conference in the series, held in 1977. The venue for the conference New Orleans, located on the Louisiana coast, serves as a field laboratory for both long-term and episodic change caused by nature and by society, and the engineering actions that may be taken to address these issues. But, also, New Orleans has a vibrant and colorful heritage to offer, and we invite you will enjoy this exciting venue personally and professionally.

The Coastal Sediments '07 conference is organized to promote an exchange of information and views among specialists in the fields of coastal engineering, geology, and oceanography, and related disciplines. The conference was greeted with enormous enthusiasm, with 350 abstracts submitted, from which 197 papers were developed for presentation and publication in the *Conference Proceedings.*

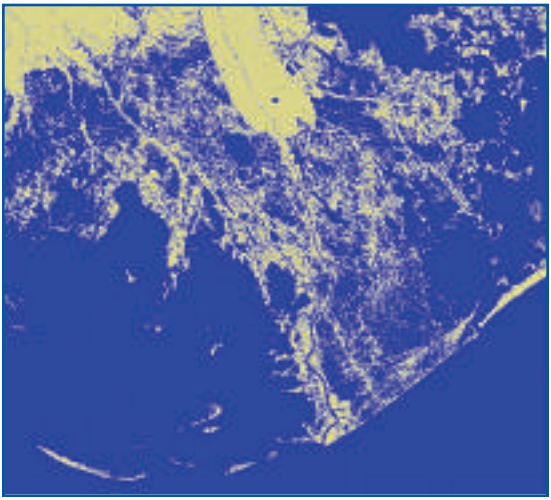
CONFERENCE THEME

The theme of Coastal Sediments '07 is ***Coastal Engineering and Science in Cascading Spatial and Temporal Scales.*** This theme was chosen to stimulate research and papers devoted to the various scales of processes, and their interactions, at which coastal engineers and scientists must work in developing knowledge and capabilities to assist society in managing the coast. Emphasis is on papers that recognize and relate to coastal morphology change of long-term consequence.

The conference venue is the Louisiana coast, a stimulating site supporting the conference theme. This coast is experiencing rapid and differential subsidence, severe reduction in renewable sediment supply, deltaic adjustment of fine-grained material, oil and gas exploration, and remolding by hurricanes. The theme is intended to generate papers and discussion of coastal sediment processes from the micro-scale to the regional scale at which integrated coastal design and management must be accomplished. Both basic and applied papers will be presented.



Barataria Bay, 1933



Barataria Bay, 2000
Courtesy U.S. Army Corps of Engineers, New Orleans District

DESTINATION

New Orleans, Louisiana will host the Coastal Sediments '07: *Coastal Engineering and Science in Cascading Spatial and Temporal Scales* Conference May 13-17, 2007. What better city to help us celebrate 30 years of the Coastal Sediments Conference Series than one of the most beloved and celebrated cities in the world?

The historic and cultural experience that attracts more than 10 million people to New Orleans each year is as rich, charming and welcoming as ever. The historic core of the city – including the Faubourg Marigny, French Quarter, Central Business District, Warehouse and Arts District, Magazine Street, Garden District, Audubon Park and Zoo and St. Charles Avenue – not only remains intact, both physically and spiritually, but is thriving. The cultural riches, sensual indulgences and unparalleled service that define the New Orleans experience continue to flourish, as they have for centuries. New Orleans is open, fully prepared and eager to welcome our conference attendees.

This year's conference won't just be a celebration of 30 years of Coastal Sediments conferences. It will also mean that you are taking part in celebrating the rebirth of New Orleans!

FACILITIES

The **InterContinental New Orleans** is centered at the core of the city, providing convenient access to the historic wonders of the French Quarter, major attractions of the Mississippi River and the Superdome, as well as the emergent style, contemporary arts, and eclectic shopping and dining of the Warehouse and Convention Center Districts. This AAA four-diamond award-winning hotel features 479 luxuriously appointed guest rooms that include 75 balcony rooms, 30 sites, and 31 Club level rooms. Guest room features include in room safes, coffee makers, hairdryers, mini-bars, high-speed Internet access, and DVD-quality movies. The hotel offers Room Service, a newly renovated 24-hour Fitness Center overlooking a rooftop swimming pool, Business Center, wireless Internet access in all public areas, and an Instant Service Center.

INTERCONTINENTAL NEW ORLEANS
444 St. Charles Avenue
New Orleans, LA 70130
Main Ph: 504-525-5566
Guest Fax: 504-523-7310
E-mail: new-orleans@interconti.com

SHORT COURSES

STORM PROCESSES: Pelican I
Sunday, May 13, 8:00 AM – 5:00 PM

Organizers: Tom Campbell, Coastal Planning and Engineering; Luke Le Bas, Louisiana Department of Natural Resources

COASTAL INLETS AND ENTRANCES: Pelican II
Sunday, May 13, 8:00 AM – 5:00 PM

Organizers: Duncan FitzGerald, Boston University; Nick Kraus, U.S. Army Corps of Engineers; William Seabergh, U.S. Army Corps of Engineers

SPECIAL EVENTS

OPENING MIXER: Exhibit Area – Le Salon & La Salle Foyer
Sunday, May 13, 5:30 PM – 7:00 PM

Network and greet colleagues from around the world. Enjoy hors d'oeuvres and beverages while you engage in conversation to set the pace for the in-depth discussions throughout the conference, and visit exhibits to see the latest technologies.

EXHIBIT HALL LUNCHEON: Exhibit Area – Le Salon & La Salle Foyer
Monday, May 14, 12:00 PM – 1:30 PM

Enjoy a boxed lunch as you meander through the exhibition learning about new developments in the industry.

AWARDS LUNCH: La Salle Ballroom A
Wednesday, May 16, 12:00 PM – 1:30 PM

The Organizing Committee of the Coastal Sediments '07 conference is pleased to announce that Professor Leo van Rijn has accepted the 2007 Coastal Award. The research and books of Professor van Rijn have greatly influenced engineers and geologists working in the areas of coastal sediment transport and morphology change. Starting in 2001, the Coastal Award has been presented at Coastal Dynamics and Coastal Sediments conferences through coordinating between the organizing committees of these two technical specialty conferences.

CLOSING MIXER: Exhibit Area - Le Salon & La Salle Foyer
Wednesday, May 16, 5:30 PM – 7:00 PM

Celebrate the closing of another successful Coastal Sediments conference while you enjoy hors d'oeuvres and beverages at the Closing Mixer.

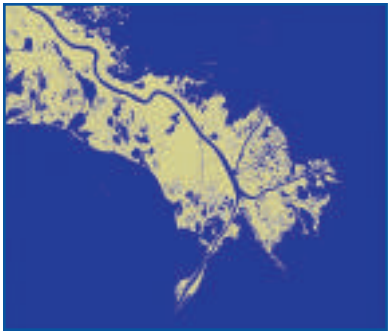
REGISTRATION AND PRACTICAL DETAILS

The **Registration Desk** will be staffed throughout the conference. Please contact us if you have any questions or if you need assistance regarding the conference. Registration will be open from 7:00 a.m. until 8:00 a.m. on Sunday for Short Courses and then from 3:00 p.m. until 6:00 p.m. for exhibitors and conference registrants. On Monday, Tuesday, and Wednesday registration will be open from 7:00 a.m. until 5:00 p.m.

Name badges should be worn at all times. Replacement name badges may be requested from the Registration Desk.

Messages to conference participants will be posted on a Message Board. All participants are advised to check the board regularly.

Program Changes from the detailed technical program are expected to occur. Changes will be posted on the Message Board.



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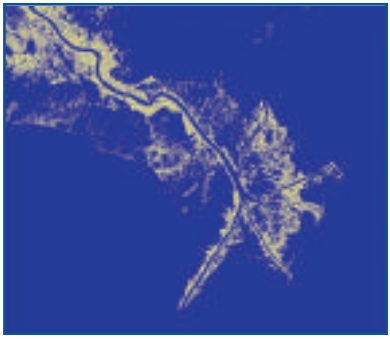


2000
Birds Foot Delta, Louisiana
Courtesy U.S. Army Corps of Engineers, New Orleans District

INFORMATION FOR SPEAKERS

Presentations

Each breakout session room is equipped with an LCD projector, control that can operate your PowerPoint presentation, laser pointer, and microphone. Presentations should be loaded one day before or, at the latest, the morning before your session. It is advised to check your presentation carefully in the Speakers' Preparation Room to assure that it has transferred correctly.

Speakers' Preparation Room: Acadian II
Sunday, May 13, 12:00 PM - 4:00 PM
Monday, May 14 - Wednesday, May 16, 7:00 AM - 5:00 PM

Please come to the Speaker's Preparation Room to preview your presentation and submit it to the conference the day before you are scheduled to speak. An audio visual technician and/or student volunteer will be available to assist you.

Speakers' Breakfasts: Poydras
Monday, May 14 - Wednesday, May 16, 7:00 AM - 8:00 AM

On the morning of their presentations, speakers are invited to meet with their moderators and other speakers in their session during a breakfast provided by the Conference Steering Committee. Besides promoting technical exchange, the breakfast meeting will allow speakers and moderators to coordinate and review the presentation format and session schedule.

PRESENTATION FORMAT

Each speaker will have 20 minutes total, which includes the main presentation and discussion. To allow movement among the four concurrent sessions, moderators will maintain the schedule, without exception.

CONFERENCE PROCEEDINGS

The conference *Proceedings* will be available in a printed version and on CD-ROM. One copy of both the printed copy and CD conference *Proceedings* will be included with each full registration fee. Student registrants will receive the CD only. To purchase the *Proceedings* following the conference, call ASCE at 1-800-548-2723; send a fax to 703/295-6211; or order online at www.pubs.asce.org.

ATTIRE

The attire recommendation for Coastal Sediments '07 is academic or business casual (i.e., slacks, casual dresses). Don't bring a tie! Meeting room temperatures will vary, and we recommend wearing layered clothing to ensure comfort. We also recommend attendees wear comfortable shoes, although the breakout sessions are near to each other on the third (conference) floor in the InterContinental Hotel.

PROFESSIONAL DEVELOPMENT HOURS (PDHs)

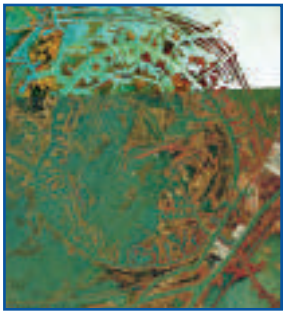
You may earn PDHs, which are nationally recognized units of record, by attending conference technical sessions. Please note that there are differences from state to state in continuing education requirements for professional engineering licensure. Each state licensing board has the final authority to approve course, credits, PDHs, and other methods of earning credits in that state. A PDH Form with instructions will be provided in your onsite registration packet.

Earn up to 26 Professional Development Hours at this conference

ACCOMPANYING PERSONS

Please check at the Registration Desk or hotel concierge for suggestions or directions.

1945



2006
"Wagon Wheel," Birds Foot Delta
Courtesy U.S. Army Engineer District, New Orleans District

TECHNICAL PROGRAM

The following pages contain the technical program for Monday through Wednesday. A total of 197 presentations will be given in four parallel sessions A through D. Concurrent sessions are listed on adjacent pages. Each presentation is allotted a duration of 20 minutes, including discussion. Session chairs and presenters are requested to follow the schedule strictly in order to allow participants to move between sessions.

Belle Pass and Port Fourchon, Louisiana
Courtesy USGS

Coastal Sediments '07

MONDAY MAY 14

7:00-8:00

SPEAKER/MODERATOR BREAKFAST	POYDRAS

8:30-9:50

WELCOME AND KEYNOTE ADDRESS
Mr. Randy Hanchey, Deputy Secretary, Louisiana Department of Natural Resources
"Louisiana's Challenge: Formulating an Integrated Coastal Restoration and Hurricane Protection Strategy"
LA SALLE A

9:50-10:20

BREAK - LE SALON & LA SALLE FOYER

10:20-12:00

SEDIMENT TRANSPORT FUNDAMENTALS I — CHAIRS: BENOÎT CAMENEN, BILLY EDGE	PELICAN I	A1

Wave-related Transport and Nearshore Morphology
Leo van Rijn, Gerben Ruessink, Bart Grasmeijer, Jebbe van der Werf, Jan Ribberink

Closed Form Solution for Threshold Velocity for Initiation of Sediment Motion Under Waves
Hans Hanson, Benoît Camenen

Influence of Velocity Moments on Sand Bar Movement During CROSSTEX
Gregory Guannel, H. Tuba Özkan-Haller, Merrick C. Haller, James T. Kirby

Development of a New Practical Model for Sand Transport Induced by Non-Breaking Waves and Currents
Jebbe J. van der Werf, Jan S. Ribberink, Tom O'Donoghue

A Total Load Formula for the Nearshore
Benoît Camenen, Magnus Larson

LOUISIANA COAST — CHAIRS: LUKE LE BAS, HARLEY WINER	LA SALLE B	B1

The Challenges of Restoring Louisiana Barrier Islands: From Design through Construction
Gordon G. Thomson, Greg M. Grandy, Rachel Sweeney

Field Observations of Wave-Current-Sediments Dynamics, Atchafalaya Shelf, Louisiana, USA
Sergio Jaramillo, Alex Sheremet, Mead Allison

Investigation of Morphosedimentary Processes on a Schematic Louisiana Barrier Island Using Process-Based Numerical Modeling
T. Campbell, B. de Sonneville, L. Benedet, D.J.W. Walstra, C.W. Finkl

Restoration-Quality Sand from Ship Shoal, Louisiana: Geotechnical Investigation of Sand Resources on a Drowned Barrier Island
Syed M. Khalil, Charles W. Finkl, Jeff Andrews, Christopher P. Knotts

Mississippi River Sand for Barrier Island Restoration in Louisiana: Geophysical & Geotechnical Investigations for Sand Mining
Jeffrey L. Andrews, Syed M. Khalil, Charles W. Finkl, Lindino Benedet

COASTAL INLETS I — CHAIRS: HANY ELWANY, PING WANG	LA SALLE C	C1

Hydrodynamic and Morphologic Modeling at Sebastian Inlet, FL
Gary A. Zarillo, Florian G. A. Brehin

Erosion and Channel Migration at the Shoalwater Bay Reservation, Willapa Bay, Washington
Andrew Morang, David J. Mark, Jane M. Smith

Sediment Management Plan Development for the St. Lucie Inlet, Martin County, Florida
John Ramsey, Trey Ruthven, Kevin Kremkau, Kathy Fitzpatrick

Sand Bypassing Restores Natural Processes to Assateague Island, Maryland
Courtney A. Schupp, Gregory P. Bass, William G. Grosskopf

Morphological Responses to Jetty Construction at Tidal Inlet: Lake Saroma, Japan
Kentaro Hayashi, Koji Hashimoto, Takayuki Sasaki, Akihiro Honma, Seizo Matsura

SWASH ZONE — CHAIRS: WILLIAM MCDOUGAL, PAUL WORK	PELICAN II	D1

A Formula for Longshore Sediment Transport in the Swash
Magnus Larson, Ty V. Wamsley

Importance of the Swash Longshore Sediment Transport in Morphodynamic Models
Yasuyuki Baba, Benoît Camenen

Direct Bed Shear Stress Measurements in Bore-Driven Swash and Swash Interactions
Matthew P. Barnes, Tom E. Baldock

Limits of Beach and Dune Erosion in Response to Wave Runup Elucidated From SUPERTANK
Tiffany M. Roberts, Ping Wang, Nicholas C. Kraus

Interaction of Dune Face and Swash Zone
Jaap S.M. van Thiel de Vries, Linden B. Clarke, Stefan G.J. Aarninkhof, E. Matrijn Coeveld, Rob A. Holman, Meg L. Palmsten, Ad J.H.M. Reniers, Marcel J.F. Stive, Wim S.J. Uijttewaal

12:00-13:30 LUNCH - LE SALON & LA SALLE FOYER

13:30-15:10

SEDIMENT TRANSPORT FUNDAMENTALS II — CHAIRS: MAGNUS LARSON, OLE MADSEN	PELICAN I	A2

Longshore Sand Transport Rate Measurements Using Small-Scale Physical Models
Roshan Suminda Ranasinghe, Shinji Sato

Pressure-Induced Subsurface Sediment Transport in the Surf Zone
Ole Secher Madsen, William McKinney Durham

Tracking Sediment Particles Under Wave-Current Coexisting Field
Yoshimitsu Tajima, Masayuki Kozuka, Masahito Tsuru, Toshimasa Ishii, Takeharu Sakagami, Kazuo Momose, Nobuo Mimura, Ole S. Madsen

Sediment Transport in Response to Wave Groups Generated by High-Speed Vessels
Philip D. Osborne, Neil J. MacDonald, Shaun Parkinson

MISSISSIPPI RIVER DELTA — CHAIRS: RANDY MCBRIDE, GREGORY STONE	LA SALLE B	B2

Engineering the Mississippi River as a Sediment Delivery System
Harley S. Winer

Sediment Flux and Fate in the Mississippi River Diversion at West Bay: Observation and Modelling Study
T. Mitchell Andrus, Samuel J. Bentley

Initial Morphologic and Stratigraphic Delta Evolution Related to Buoyant River Plumes
Joep E.A. Storms, Marcel J.F. Stive, Dano (J.) A. Roelvink, Dirk Jan Walstra

Physical and Numerical Modeling of River and Sediment Diversions in the Lower Mississippi River Delta
Clinton S. Willson, Nathan Dill, William Barlett, Samantha Danchuk, Ryan Waldron

A Geomorphic Process-Response Model for Chenier-Plain Evolution in Southwestern Louisiana, USA
Randolph A. McBride, Matthew J. Taylor, Mark R. Byrnes

COASTAL INLETS II — CHAIRS: ANA VILA, LYNN BOCAMAZO - CONCEJO	LA SALLE C	C2

Morphodynamics of Texel Inlet, The Netherlands
Edwin P.L. Elias, Marcel J.F. Stive

Sedimentation Patterns in a Stabilized Migratory Inlet, Blind Pass, Florida
Ping Wang, David K. Tidwell, Tanya M. Beck, Nicholas C. Kraus

Approaches to Understanding Multiple-Inlet Stability
William C. Seabergh

Engineering Guidelines for the Siting of Sand Bypassing Discharges
Douglas W. Mann

Shoreline Implications of Flood-Tide Delta Morphodynamics. The Case of Port Stephens (SE Australia)
Ana Vila-Concejo, Andrew D. Short, Michael G. Hughes, Roshanka Ranasinghe

BARRIER ISLAND BREACHING — CHAIRS: JOSE JIMENEZ, TY WAMSLEY	PELICAN II	D2

Critical Width of Barrier Islands and Implications for Engineering Design
Julie Dean Rosati, Gregory W. Stone

Barrier Island Vulnerability to Breaching: A Case Study on Dauphin Island, Alabama
Mark Hansen, Asbury H. Sallenger

Morphologic Modeling of Multiple Barrier Island Breaches for Regional Application
Kenneth J. Connell, Magnus Larson, Nicholas C. Kraus

Breach Stability and Growth Analysis Using a Morphological Model
Santiago R. Alfageme, Masood Khondker, Rafael Canizares

Spatial Distribution of Cross-Shore Sediment Transport Rate for Berm Formation and Erosion
Takayuki Suzuki, Maiko Takeuchi, Naoki Tomoda, Satomi Yamaguchi, Yoshiaki Kuriyama

15:10-15:40	BREAK - LE SALON & LA SALLE FOYER

15:40-17:00

SEDIMENT TRANSPORT FUNDAMENTALS III — CHAIRS: ERNEST SMITH, LARRY WISE	PELICAN I	A3

Flume Experiments Under Cat-Scan to Measure Internal Sedimentological Parameter During Sediment Transport
Stéphane Montreuil, Bernard Long

The Effects of Bed Slope and Wave Skewness on Sediment Transport and Morphology
D.J.R. Walstra, L.C. van Rijn, M. van Ormondt, C. Briére, A.M. Talmon

Sediment Transport Off Northeast Florida Outside the Surf Zone During Hurricanes
Michael Krecic, Christopher Bender, Kristen Odroniec

MARSHES AND WETLANDS — CHAIRS: DENISE REED, LEE WEISHAR	LA SALLE B	B3

Sediment Analysis for Habitat Restoration: Adaptation of Open-Coast Beach Nourishment Principles
Daniel J. Heilman, Joel T. Darnell, M. Cameron Perry

Subsurface Exploration and Containment Dike Design Criteria for Coastal Louisiana Marsh Restoration
Russ Joffrion, Michael Poff, Mitch Andrus

Ice Raft Formation, Dispersion and Sedimentation on New England Salt Marshes
Brittina A. Argow, Zoe J. Hughes, Duncan M. FitzGerald

Effects of Large Scale Morphological Changes to a Back-Bay System
Lee L. Weishar, Theodore Keon, Donald K. Stauble

MUD COASTS I — CHAIRS: KEVIN HALL, TOMOYA SHIBAYAMA	LA SALLE C	C3

Using Simple Semi-Empirical Models for Integrated Assessment of Scenarios for a Navigation Channel. The Case of the Port of Ostend, Belgium
Toon Verwaest

Sediment Processes and Mangrove-Habitat Expansion on a Rapidly-Prograding Muddy Coast, New Zealand
Andrew Swales, Samuel J. Bentley, Catherine Lovelock, Robert G. Bell

The Influence of Mud on the Inner Shelf, ShoreFace, Beach and Surf Zone Morphodynamics - Cassino, Southern Brazil
Lauro J. Calliari, Todd Holland, Pedro S. Pereira, Rafael M.C. Guedes, Renato E. Santo

The Hurricane Katrina Storm Surge in Mississippi
Alan W. Niedoroda, Lyle Hatchett, Himangshu Das, Andrew Cox, Robert Weaver, Stephen Baig, Shabbar Saifee

OVERWASH AND WASHOVER — CHAIRS: OSCAR FERREIRA, TAKAAKI UDA	PELICAN II	D3

Sediment Transport Patterns During Overwash
Ana Matias, Ana Vila-Concejo, Óscar Ferreira, Brad Morris, João A. Dias

Characterisation and Modelling of Washover Fans
Chantal Donnelly, Asbury H. Sallenger

Experimental Study of Overwash
Billy L. Edge, Young Hyun Park, Margery Overton

Backbarrier Evolution and Complete Overwash Occurrence
Ana R. Carrasco, Óscar Ferreira, Ana Matias, João A. Dias

TUESDAY MAY 15

7:00-8:00

SPEAKER/MODERATOR BREAKFAST — POYDRAS

8:10-9:50

LONGSHORE TRANSPORT — CHAIRS: DAVID KING, LEO VAN RIJN — PELICAN I — A4

Geomorphic and Sedimentologic Evidence for Net Littoral Drift - A Review
Terry Healy

Cross-shore Variation of Predominant Longshore Sediment Transport Rate
Yoshiaki Kuriyama, Hikari Sakamoto

Longshore Sediment Transport Calculated by Time-Dependent Shear Stress
Ernest R. Smith, Nicholas C. Kraus

Sediment Budget of the Danube Delta Coastal Zone
Sebastian Dan, Marcel Stive, Dirk Jan Walstra, François Sabatier

Field Measurement and Modelling of Longshore Sediment Transport
J.J. Williams, L.S. Esteves, M.A. Lisniowski, H.L.S. Perotto

DELTAS AND RIVER MOUTHS — CHAIRS: LIVIU GIOSAN, HARRY ROBERTS — LA SALLE B — B4

Morphodynamic Feedbacks on Deltaic Coasts: Lessons from the Wave-Dominated Danube Delta
Liviu Giosan

Coastal and River Mouth Morphology Change in Sri Lanka Due to 2004 Indian Ocean Tsunami
Hitoshi Tanaka, Kazuo Ishino, Bandara Nawarathna, Hajime Nakagawa, Shinichiro Yano

Holocene Evolution of the Merrimack Embayment, Northern Massachusetts, Inserted From Shallow Seismic Stratigraphy
Christopher J. Hein, Duncan M. FitzGerald, Walter A. Barnhardt

The Use of Historic Topography for the Characterization of Time-Dependent Geomorphic Change and Sediment Delivery
David A. Jaffe

Impact of Hurricanes Katrina and Lili on the Inner Shelf of the Mississippi-Atchafalaya Delta
Mead A. Allison, Timothy M. Dellapenna, Miguel A. Goñi, Alex Sheremet

TEXAS INLETS — CHAIRS: DUNCAN FITZGERALD, JAMES GIBEAUT	LA SALLE C	C4

Coastal Inlets of Texas, USA
Nicholas C. Kraus

Cedar Bayou – Inlet Dynamics and Engineering
Vladimir Shepsis, Joshua Carter

Mouth of the Colorado River, Texas
Ronnie Barcak, Nicholas C. Kraus, Lihwa Lin, Ernest R. Smith, Daniel J. Heilman
Robert C. Thomas

Long-Term Inlet Stability in a Multiple Inlet System, Pass Cavallo, Texas
Brian K. Batten, Nicholas C. Kraus, Lihwa Lin

Morphologic Response to a New Inlet, Packery Channel, Corpus Christi, Texas
Deidre D. Williams, Nicholas C. Kraus, Carl M. Anderson

SAND BARS, BEACH CUSPS — CHAIRS: RANDALL PARKINSON, JOAN POPE	PELICAN II	D4

Geomorphic Features Shaped by Crossing Waves
Robert B. Nairn, Mohammad Dibajnia

Observation and Modeling of Crescentic Bars in Barcelona Embayed Beaches
F. Ribas, R. Garnier, E Ojeda, A. FalqueÐs, J. GuilleÐÐn, D. Calvete

Mesoscale Behaviour of Longshore Bars – Net Onshore or Net Offshore Migration
Troels Aagaard, Aart Kroon

Morphological Characteristics of Rip Current Embayments on the Oregon Coast
Matthew M. Dalon, Merrick Haller, Jonathan Allan

Geologic Framework of the Long Bay Inner Shelf: Implications for Coastal Evolution in South Carolina
Walter Barnhardt, Jane Denny, Wayne Baldwin, William Schwab, Robert Morton,
Paul Gayes, Neal Driscoll

9:50-10:20 BREAK - LE SALON & LA SALLE FOYER

10:20-12:00

SEDIMENT TRANSPORT FUNDAMENTALS IV — CHAIRS: ROBERT NAIRN, ROBERT WHALIN	PELICAN I	A5

Infragravity Waves in Mobile-Bed Laboratory Experiments
Florent Grasso, Hervé Michallet, Eric BartheÐlemy

Large-Scale Laboratory Modeling of Suspended Sand Concentration Fluctuations Under Irregular Waves
Joachim Grüne, Ruben Kos'yan, Hocine Oumeraci, Igor Podymov, Reinold Schmidt-Koppenhagen, Chris E. Vincent

Change in Longitudinal Profile Using Sand of Mixed Grain Size in Large Wave Tank and its Numerical Simulation
Massaya Fukuhama, Takaaki Uda, Masumi Serizawa, Toshinori Ishikawa

Probabilistic-Deterministic Modelling of Swash Zone Morphology
T.E. Baldock, P. Kim Son, P. Manoonvoravong, M.P. Barnes, J.M. Alsina

Modelling Sheet Flow Sediment Transport Using Convolution Integrals
P. Guard, I. Teakle, P. Nielsen, T. Baldock

STORMS I — CHAIRS: SHEA PENLAND, HILARY STOCKDON	LA SALLE B	B5

Coastal-Change Impacts during Hurricane Katrina: An Overview
Asbury Sallenger, C. Wayne Wright, Jeff Lillycrop

Modeling Dune Response Using Measured and Equilibrium Bathymetric Profiles
Laura A. Fauver, David M. Thompson, Asbury H. Sallenger

Sediment Transport Along the Southwestern Louisiana Shoreline: Impact from Hurricane Rita, 2005
Walter S. Guidroz, Gregory W. Stone, Dane Dartez

Heterogeneity and Dynamics on a Shoal during Spring-Winter Storm Season, South Central Louisana, USA
Daijiro Kobashi, Felix Jose, Gregory W. Stone

Winter Storm and Tropical Cyclone Impacts on the Short-Term Evolution of Barriers Along the Northeastern Gulf of Mexico
Gregory W. Stone, Baozhu Liu, Felix Jose

COASTAL INLETS III — CHAIRS: WILLIAM SEABERGH, MARCEL STIVE	LA SALLE C	C5

Evolution of a Relocated Tidal Inlet: Mason Inlet, NC
John M. Welsh, William J. Cleary

Present Hydrodynamics of Ancão Inlet, 10 Years After its Relocation
André Pacheco, Ana Vila-Concejo, Oscar Ferreira, Alveirinho Dias

The Influence of Tidal Prism and Vegetation on Tidal Channel Morphology: Implications for Marsh Stability
Matthew L. Kirwan, A. Brad Murray

Natural and Anthropogenic Influences on the Morphodynamics of Big Sarasota Pass, Florida
Richard A. Davis, Ping Wang, Tanya Beck

Morphological Behavior of Seasonal Closure of Tidal Inlets
Tran Thanh Tung, Marcel J.F. Stive, Jan van de Graaff, Dirk-Jan R. Walstra

SAND WAVES AND CHANNELS — CHAIRS: TROELS AAGAARD, MOHAMMAD DIBAJNIA	PELICAN II	D5

A Relic Sand Wave Field in a Tidal Channel
Shelley J. Whitmeyer, Duncan FitzGerald

Geometric and Statistical Characteristics of Bed Forms in the Lower Mississippi River
K. Kheiashy, J. McCorquodale, I. Georgiou, E. Meselhe

Bathymetric Evolution of a Sandy Bed Under Transient Progressive Waves
Blake J. Landry, Marcelo H. García

Analysis of Sebastian Inlet, FL, Morphologic Changes Using Complex Empirical Orthogonal Functions (CEOF)
Florian G.A. Brehin, Jo-Ann Rosario-Llantin, Gary A. Zarillo

Investigating Ship Induced Scour in a Confined Shipping Channel
David Taylor, Kevin Hall, Neil MacDonald

12:00-13:30	LUNCH ON YOUR OWN

13:30-15:10

SHORELINE CHANGE MODELING — CHAIRS: HANS HANSON, SOLEDAD REQUEJO	PELICAN I	A6

A Middle-Term Evolution Model for Beaches
Soledad Requejo, Raul Medina, Mauricio Gonzalez

Model for Predicting Beach Changes on Coast with Sand of Mixed Grain Size Based on Bagnold's Concept
Masumi Serizawa, Takaaki Uda, Toshiro San-nami, Kou Furuike, Toshinori Ishikawa, Takayuki Kumada

A Circulation Modeling Approach for Evaluating the Conditions for Shoreline Instabilities
Jeffrey H. List, Andrew D. Ashton

An Alternative Explanation for the Shape of 'Log-Spiral' Bays
Ryan Littlewood, A. Brad Murray, Andrew D. Ashton

The Response of Spit Shapes to Wave-Angle Climates
Andrew D. Ashton, A. Brad Murray, Ryan Littlewood

STORMS II — CHAIRS: AART KROON, ABBY SALLENGER	LA SALLE B	B6

Impact of a Major Storm on Sediment Exchanges Between the Dunes, Beach, and Nearshsore
Aart Kroon, Susanne Quaratel, Troels Aagaard

Storm Patterns and Climactic Trends Based on Water Level Fluctuations: Duck, North Carolina, USA
Joan Pope

Hindcasting Potential Hurricane Impacts on Rapidly Changing Barrier Islands
Hilary F. Stockdon, David M. Thompson, Asbury H. Sallenger, Jr.

EOF Analysis of Morphological Response to Hurricane Ivan
Chris Houser, Stuart Hamilton, Klaus Meyers-Arendt, Jonathan Oravetz

Storm Surge and Sediment Process Owing to Hurricane Isidore in Terminos Lagoon, Campeche
Juan C. Espinal, Paulo Salles. A de A, Diana K. Moran

ESTUARIES — CHAIRS: ALAN NIEDORODA, VLADIMIR SHEPSIS	LA SALLE C	C6

The National Academies Report on Mitigating Shore Erosion Along Sheltered Coasts
Jeff Benoit, Susan Roberts

Field Measurement and Modelling of Scour Pit Dynamics in a Sandy Estuary
A.G. Davies, J.M. Brown

Projection of Topographic Change of an Estuary Terrace by Horizontal 2-D Simulation Model, Considering Grain Size
Toshimitsu Takagi, Go Asano, Takashi Inukai, Masaya Fukuhama

Examining the Contribution of Sediment Stratification to the Evolution of Seabed Morphology
S. Falchetti, D.C. Conley, M. Brocchini

From River Basin to Barrier Reef: Pathways of Coastal Sediments
Piet Hoekstra, Ton Hoitink, Frans Buschman, Ayi Tarya, Gert van den Bergh

BEACH NOURISHMENT — CHAIRS: TIMOTHY KANA, RAUL MEDINA	PELICAN II	D6

Evolution of Grain-Size Distribution on Bogue Banks: Implications for Selection of Borrow Material
Timothy W. Kana

New Findings in Equilibrium Grain Size Distribution
Jordi Galofre, Raúl Medina, Gabriela Medellin, César Vidal

Determination of Overfill Factor for Offshore Sand in Barrier Island Restoration on the Louisiana Coast
Daniel L. Bolinger, Dominic Izzo, Edward J. Schmeltz

Broward County Beach Demonstration Project: From Beers to Beaches
Christopher Makowski, Gordon Thomson, Peter Foye, Stephen Higgins

Beach Nourishment Evolution in the Cancún Beach, Quintana Roo, México
Diana K. Morán, Paulo Salles. A de A, José C. Sánchez, Juan C. Espinal

15:10-15:40 BREAK - LE SALON & LA SALLE FOYER

15:40-17:00

OBSERVED SHORELINE CHANGE — CHAIRS: PETER RUGGIERO, JAMES SELEGEAN	PELICAN 1	A7

Historical Shoreline Changes and Morphodynamics of Parramore Island, Virginia (1852-2006)
Trent M. Richardson, Randolph A. McBride

Temporal and Spatial Scales of Profile and Planform Adjustment on a Nourished Beach
Nicole A. Elko, Ping Wang

Shoreline Response to Dike Failure at Grand Marais Harbor, Lake Superior, Michigan
Rachel R. Roblin, Mohammad Dibajnia, Robert B. Nairn, James P. Selegean

Successful Beach Modelling, Monitoring and Management for a Large LNG Facility
Jonathan A. Kemp, Tom C. Coates, Richard Head, Jenny S. Harcourt

TSUNAMI 1 — CHAIRS: SHINJI SATO, RICHARD SOULSBY	LA SALLE B	B7

Tsunami Damage Estimation in Consideration of Beach Transformation and Dike Failure
Fuminori Kato, Masaya Fukuhama, Hiroyuki Fujii, Toshimitsu Takagi

Beach Morphology at Banda Aceh, Indonesia in Response to the Tsunami on 26 December 2004
Ella Meilianda, C. Marjolein Dohmen-Janssen, Ben H.P. Maathuis, Suzanne J.M.H. Hulscher, Jan P.M. Mulder

Dune Morphology as an Indicator of Paleotsunamis
James R. Goff

Sedimentological Characteristics of Regional-Scale Washover Deposits Caused by Hurricane Ivan
Mark H. Horwitz, Ping Wang

MUD COASTS II — CHAIRS: DANO ROELVINK, ALEXANDRU SHEREMET	LA SALLE C	C7

Wave Evolution on Fluid Mud Bottom
Kevin Hall, Ali Oveisy

A Fine Sediment Transport Modeling Framework and its Application to Fluid Mud Processes
Tian-Jian Hsu, Minwoo Son

Field Measurement of Fine Sediment Transport Process Around Navigation Channel
Yasuyuki Nakagawa, Hideo Matsumoto

Time Dependent Mud Fluidization and Irregular Wave Transformation on Muddy Profiles
Mohsen Soltanpour, S. Abbas Haghshenas, Tomoya Shibayama

CASE STUDIES — CHAIRS: MEAD ALLISON, THOMAS CAMPBELL	PELICAN II	D7

Geomorphic Response and Elements of Sediment Budget at St. Joseph Harbor, Southeast Lake Michigan
Mohammad Dibajnia, Robert B. Nairn, James P. Selegean

Chesapeake Bay: Headland Control Systems Performance Including Hurricane Isabel
C. Scott Hardaway, Jr., James R. Gunn

Coastal Protection Against Wind-Wave Induced Erosion Using Soft and Porous Structures: A Case Study at Lake Biel, Switzerland
Selim M. Sayah, Stephan Mai

Physical Processes Study of Goldsmith Inlet, New York
Michael J. Morgan, Nicholas C. Kraus

WEDNESDAY MAY 16

7:00-8:00

SPEAKER/MODERATOR BREAKFAST — POYDRAS

8:10-9:50

GRAVEL COASTS I — CHAIRS: PAUL KOMAR, JULIAN ORFORD — PELICAN I — A8

The Design of Stable and Aesthetic Beach Fills: Learning from Nature
Paul D. Komar

Variation in the Organisation of Gravel-Dominated Coastal Systems: Evidence from Nova Scotia and Southern England
Julian D. Orford, Simon C. Jennings

Profile Dynamics and Particle Tracer Mobility of a Cobble Berm Constructed on the Oregon Coast
Jonathan C. Allan, Roger Hart

Mixed Sediment Beach Processes: Kachemak Bay, Alaska
Peter Ruggiero, Peter N. Adams, Jonathan A. Warrick

Mixed Sand and Gravel Beach Design and Construction for Habitat Restoration
David Simpson, Michael Wray, John Houghton, John Klekotka

TSUNAMI II — CHAIRS: GUY GELFENBAUM, BRUCE JAFFE — LA SALLE B — B8

Impacts of the 2004 Indian Ocean Tsunami on the Southwest Coasts of Sri Lanka
Robert A. Morton, James R. Goff, Scott L. Nichol

Reconstructing Tsunami Run-Up from Sedimentary Characteristics - A Simple Mathematical Model
Richard L. Soulsby, David E. Smith, Alan Ruffman

Numerical Study of Tsunami Run-Up Over Erodible Sand Dunes
Takenori Shimozono, Shinji Sato, Yoshimitsu Tajima

Predicted Sedimentary Record of Reflected Bores
Bretwood Higman, Guy Gelfenbaum, Patrick Lynett, Andrew Moore, Bruce Jaffe

Tsunami Inundation and Sediment Transport in Vicinity of Coastal Mangrove Forest
Guy Gelfenbaum, Deepak Vatvani, Bruce Jaffe, Frank Dekker

REGIONAL PROCESSES I — CHAIRS: MARK BYRNES, GEORGE KAMINSKY	LA SALLE C	C8

Regional Beach/Cliff System Dynamics Along the California Coast
Cheryl J. Hapke, Dave Reid

Factors Influencing the Long-Term Stability of the Carbonate Sand Beaches of Mauritius
Michael J. Risk, Robert B. Nairn, Mark O. Kolberg

Evolution of Erosion Hot Spots on a Barrier Island: Fire Island, New York
Kathryn Seaver, Frank Buonaiuto, Henry Bokuniewicz

Tropical Mixed Wave/Tide Dominated Barrier-Spit System: A Case Study from NE Brazil
Helenice Vital, Francisco Santos Neto, Jose S. Placido, Venerando Eustáquio Amaro

Regional Shoreline and Beach Changes in the Santa Barbara Sandshed
David L. Revell, Gary B. Griggs

DREDGING — CHAIRS: TERRY HEALY, BARRY HOLLIDAY	PELICAN II	D8

Design of Navigation Channel Deepening Works Using a Morphological Model In Barranquilla, Columbia
Rafael Cañizares, Santiago Alfageme, Tucker Mahoney

Beach Renourishment Through Spoil Disposal Downdrift of a Dredged Entrance Channel
Kyle C. Spiers, Terry R. Healy

Desktop Methodology for Estimating Maintenance Dredging Requirements for Widened and Deepened Navigation Channels
Larry A. Wise, Oleg Mouraenko

A Mass-Balance, Control-Volume Approach for Estimating Vertical Sediment Flux and Settling Velocity Within Dredge Plumes
S. Jarrell Smith, Carl T. Friedrichs

What Does "Physical Regeneration" of Marine Aggregate Dredging Sites Mean?
Markus Diesing

9:50-10:20 BREAK - LE SALON & LA SALLE FOYER

10:20-12:00

GRAVEL COASTS II — CHAIRS: JONATHON ALLAN, PHILIP OSBORNE — PELICAN I — A9

Influence of Changing Management Regimes on the Morphodynamic Response, of a Mixed Gravel and Sand Barrier Beach
Andrew P. Bradbury, Julian D. Orford

The Influence of Groundwater on Profile Evolution of Fine and Coarse Sand Beaches
Diane P. Horn, Tom E. Baldock, Ling Li

Effects of Permeability on the Performance of Mixed Sand-Gravel Beaches
Kaiming She, Louise Trim, Diane Horn, Paul Canning

Cross-shore and Longshore Transport of Tracer Pebbles on a Macrotidal Mixed Sediment Beach, Somme Estuary, France
J. Curoy, U. Dornbusch, C.A. Moses, D.A. Robinson, R.B.G. Williams

Why Are Shingle Beaches Replacing Sandy Beaches? (Coastal Zone of NW Portugal)
Helena Granja, Eduardo Loureiro

SEA LEVEL RISE I — CHAIRS: LAURA MOORE, S. JEFFRESS WILLIAMS — LA SALLE B — B9

From Transgression to a Producing Coast; Large-scale Evolution of the Coast near The Hague, The Netherlands, Around 500 Years BP
Ad J.F. van der Spek, Jelmer Cleveringa, Sytze van Heteren

Changing Orientation of Ocean-Facing Bluffs on a Transgressive Coast, Cape Cod, Massachusetts
Graham S. Giese, Mark B. Adams

Modeling Barrier Island Response to Sea-Level Rise in the Outer Banks, North Carolina
Laura J. Moore, Jeffrey H. List, S. Jeffress Williams, David Stolper

1880 to 2005 Morphological Evolution of a Transgressive Tidal Inlet, Little Pass Timbalier, Louisiana
Michael D. Miner, Duncan M. FitzGerald, Mark A. Kulp

REGIONAL PROCESSES II — CHAIRS: JEFFREY LIST, ROBERT MORTON	LA SALLE C	C9

Engineering Activities Influencing Historical Sediment Transport Pathways at the Mouth of the Columbia River, WA/OR,
Mark R. Byrnes, Sarah F. Griffee, Hans R. Moritz

Implementing Regional Sediment Management to Sustain Navigation at an Energetic Tidal Inlet
Hans R. Moritz, Guy R. Gelfenbaum, George M. Kaminsky, Peter Ruggiero, Joan Oltman-Shay, Doris J. McKillip

Decadal Evolution of Shoreface Geometry in South Carolina, USA
B.M. Reynolds, P.A. Wren, P.T. Gayes

Improving Statistical Validity in Calculating Erosion Hazards from Historical Shorelines
Ayesha S. Genz, L. Neil Frazer, Charles H. Fletcher

Linking Coastal Evolution and Super Storm Dune Erosion Forecasts
L.M. van der Burgh, K.M. Wijnberg, S.J.M.H. Hulscher, J.P.M. Mulder, M. van Koningsveld

BEACH NOURISHMENT AND STRUCTURES — CHAIRS: ROBERT DEAN, JOHN HEADLAND	PELICAN II	D9

Performance of Beach Fill and Nearshore Breakwaters at East Ocean View Beach, Norfolk, VA
Peter Elkan, Laural Krynock, Nicole Vanderbeke, James White, Lee Rosenberg

Assessing Fill Compatibility Through Project Performance Evaluation
Donald K. Stauble

Coastal Structure Design for Shore Protection & Sand Retention: Practical Aspects
John R. Headland, Santiago Alfageme, Eric Smith, Peter Kotulak

Quantitative Evaluation of Controlling Effect of Headland on Longshore Sand Transport Using Model for Predicting Changes in Contour Lines and Grain Size
Takayuki Kumada, Takaaki Uda, Masumi Serizawa

Evaluation of Controlling Effect of Sand Transport by Detached Breakwaters Built on Dynamically Stable Beach
Takaaki Uda, Masumi Serizawa, Toshinori Ishikawa

12:00-13:30	AWARDS LUNCH - LA SALLE A

13:30-15:10

GRAVEL COASTS III — CHAIRS: DIANE HORN, SUSAN TONKIN — PELICAN I — A10

Field Measurements of Shore Conditions to Assess Bulkhead Effects in Thurston County, South Puget Sound
Susan P. Tonkin, Tim Abbe, José Carrasquero, Steve Morrison

Coral-Gravel Storm Ridges: Examples from the Tropical Pacific and Caribbean
Bruce M. Richmond, Robert A. Morton

Field Observations of Step Dynamics on a Macrotidal Gravel Beach
Daniel Buscombe, Martin J. Austin, Gerhard Masselink

Large-Scale Scour of the Sea Floor and the Effect of Natural Armouring Processes, Land Reclamation Maasvlakte 2, Port of Rotterdam
Sander Boer, Edwin Elias, Stefan Aarninkhof, Dano Roelvink, Tiedo Vellinga

SEA LEVEL RISE II — CHAIRS: MARK KULP, A. BRAD MURRAY — LA SALLE B — B10

Impacts of Rising Sea Level to Backbarrier Wetlands, Tidal Inlets, and Barrier Islands: Barataria Coast, Louisiana
Duncan FitzGerald, Mark Kulp, Zoe Hughes, Ioannis Georgiou, Michael Miner, Shea Penland, Nick Howes

Modeling Future Coastal Wetland Transition Induced by Relative Sea-Level Rise
James C. Gibeaut

Morphological Interactions Within UK Estuaries: A Preliminary Analysis of Critical Rates of Sea Level Rise
Kate Rossington, Robert J. Nicholls, Michiel A.F. Knaapen

Variable Shoreline Responses to Sea Level Rise and Climate Change
A. Brad Murray, Lisa Valvo, Jordan Slott, Andrew Ashton, Tom Crowley

Model Scenerios of Shoreline Change at Kaanapali Beach, Maui, Hawaii: Seasonal and Extreme Events
Sean Vitousek, Charles H. Fletcher, Mark A. Merrifield, Geno Pawlak, Curt D. Storlazzi

LIDAR AND ARGUS -- CHAIRS: ROBERT HOLMAN, JEFF LILLYCROP	LA SALLE C	C10

***CHARTS*-Enabled Data Fusion for Coastal Zone Characterization**
Jennifer M. Wozencraft, Christopher L. Macon, W. Jeff Lillycrop

Using Topographic LIDAR Data to Delineate the North Carolina Shoreline
Patrick W. Limber, Jeffrey H. List, Jeffrey D. Warren, Amy S. Farris, Kathryn M. Weber

Exploring Rippled Scour Depressions Offshore Huntington Beach, CA
Eleyne L. Phillips, Curt D. Storlazzi, Peter Dartnell, Brian D. Edwards

A Study of Intertidal Bar Dynamics Using the Argus Video System
Amaia Ruiz de Alegria Arzaburu, Suzana Ilic, Yohama Gunawardena

Depth of Closure Derived from Airborne Laser Bathymetry
William Robertson V, Keqi Zhang, Dean Whitman

SEAFLOOR MAPPING -- CHAIRS: MARK HANSEN, CURT STORLAZZI	PELICAN II	D10

Geologic Characterization of Offshore of Shelf Areas Using usSEABED for GIS Mapping, Modeling Processes and Assessing Marine Sand and Gravel Resource
S. Jeffress Williams, James D. Bliss, Matthew A. Arsenault, Chris J. Jenkins, John A. Goff

USGS Advances in Integrated, High-Resolution Sea-Floor Mapping: Inner Continental Shelf to Estuaries
Jane F. Denny, William C. Schwab, David C. Twichell, Thomas F. O'Brien, William W. Danforth, David S. Foster, Emile Bergeron, Charles W. Worley, Barry J. Irwin, Bradford Butman, Page C. Valentine, Wayne E. Baldwin, Robert A. Morton, E. Robert Thieler, David R. Nichols, Brian D. Andrews

A Rapid Compatibility Analysis of Potential Offshore Sand Sources for Beaches of the Santa Barbara Littoral Cell
Neomi Mustain, Gary Griggs, Patrick L. Barnard

Presence of Beach-Compatible Sediments in Offshore Borrows: New Challenges and Trade Offs in Developing Codifications
Charles W. Finkl, Jeffrey L. Andrews, Lindino Benedet

15:10-15:40 BREAK - LE SALON & LA SALLE FOYER

15:40-17:00

DUNES AND PROFILES — CHAIRS: ROD MORITZ, JULIE ROSATI	PELICAN I	A11

Dune Erosion Prediction Methods Incorporating Effects of Wave Periods
Marcel R.A. van Gent, E. Martijn Coeveld, Hans de Vroeg, Jan van de Graaff

Reevaluation of Equilibrium Beach Profile Scale Parameter
Zhanxian Wang, Robert G. Dean

Shoreface Response to Sediment Deficit
G.M. Kaminsky, M.A. Ferland, P.J. Cowell, H.R. Mortiz, P. Ruggiero

WIND-BLOWN SAND — CHAIRS: SHINTARO HOTTA, DOUGLAS SHERMAN	LA SALLE B	B11

Aeolian Processes, Coastal Dunes, and the Coastal Engineering Manual, Part III, Chapter 4 - "Wind-Blown Sediment Transport"
Frank Hopf, Douglas J. Sherman

Distribution of Horizontal Distance Traveled by Saltating Sand Grains in Air
Shintaro Hotta, Susumu Kubota, Nagatomo Nakamura

Beach Stabilization Works Against Wind Blown Sand on Beaches: Experiences from Japan
Susumu Kubota, Souichi Harikai, Shintaro Hotta

Coastal Dunefield Evolution in Conditions of Limited Sediment Availability: Natural and Anthropogenic Controls on the Corralejo Dunes
Herminia I. Valdemoro, José A. Jiménez, Ignacia Alonso, Paloma Lorente, Manuel Rodriguez-Herrerias

REMOTE SENSING — CHAIRS: PATRICK LIMBER, GARY ZARILLO	LA SALLE C	C11

Assessing Nearshore Bar Movements During Storms Using Time Averaged X-Band Radar Images
Luciana S. Esteves, Jon J. Williams, Paul S. Bell

Longshore Migration of Coastal Features Observed with X-Band Radar
Satoshi Takewaka, El Sayed Galal, Ryosuke Matsumoto, Shinya Sasakura

Detailed 3-D Models of New Zealand Barrier Stratigraphy Provide Insight Into Coastal Evolution in Various Spatial and Temporal Settings
Amy J. Dougherty, Scott L. Nichol

17:30-19:00 CLOSING MIXER - LE SALON & LA SALLE FOYER

TECHNICAL TOURS

Geology of the Louisiana Coastal Zone: Implications for Coastal Management and Restoration

Departs and Returns from Intercontinental Hotel New Orleans
Thursday May 17th, 2007
6:00 am to 8:00 pm

Leaders: Dr. Mark Kulp, Dr. Mike Miner, Dr. Duncan FitzGerald, and Dr. Ioannis Giorgiou.

Cost: $125 (includes transportation, bag lunch, and drinks).
25 person limit

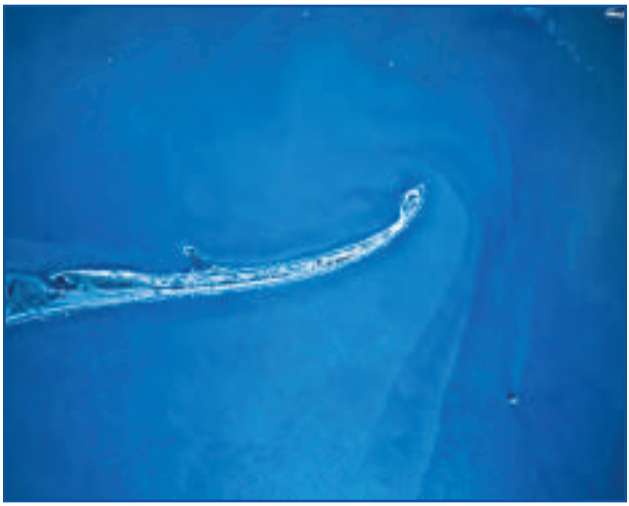
Description: The Louisiana Coastal Zone is one of America's most extensively studied and important coastal ecosystems in terms of natural resources, human infrastructure, and cultural heritage. It also has the highest rates of coastal erosion and wetland loss in the nation due to a complex combination of natural land loss processes as well as alteration to the coastal zone by human activities. This land loss has prompted the development of regional coastal ecosystem restoration plans that are funded and guided by federal and state agencies. A fundamental requirement for the most cost-effective design and completion of restoration projects is a solid understanding of the regional geologic framework and the processes operating along the barrier shorelines and within the interior wetlands.

Participants of the this field trip will gain first-hand experience of the Louisiana Coastal Zone by traveling from New Orleans to Fourchon Louisiana by vans, then by boats to the Timbalier Islands barrier island system. Stops along the way will focus on the modern coastal zone geomorphology, shallow and deep stratigraphy, and shallow and deep processes of the coastal zone with regard to Louisiana coastal zone restoration plans. Proposed restoration plans, socio-economic importance of coastal restoration, and the politics of coastal restoration will also be discussed.

What to Bring: The temperature during this time of year can easily reach 90 degrees Fahrenheit. Participants should wear hats, sunglasses, light-weight clothing and closed-toe, rubber-sole shoes that can get wet. Plenty of drinks (water, Gatorade, and soda) will be available.

Tentative Schedule:

6:00 am	Promptly leave NOLA for Fourchon Louisiana
9:00 am	Arrive Fourchon, brief introduction to Fourchon, LUMCON facilities and central coastal zone
10:00 am	Board boats and leave LUMCON dock
11:00	Arrive Timbalier Islands, discussion about coastal zone, barrier systems, tidal inlets, storm impacts
12:45	Bag lunch
12:30	Continued discussion of coastal geomorphology, restoration projects, regional geology
1:00	Depart Timbalier Island
1:45	Arrive Raccoon Pass, discussion
2:30	Arrive LUMCON
3:00	Discuss Wisner Restoration
4:00	Gumbo Dinner with bread and salad at LUMCON camp
5:00	Depart for NOLA
8:00	Arrive NOLA



Trinity Island, Isle Dernieres, Louisiana
January 2004
Courtesy USGS

CONFERENCE FACILITITES PLAN

La Salle A – Opening Ceremony

Pelican I – Sessions A

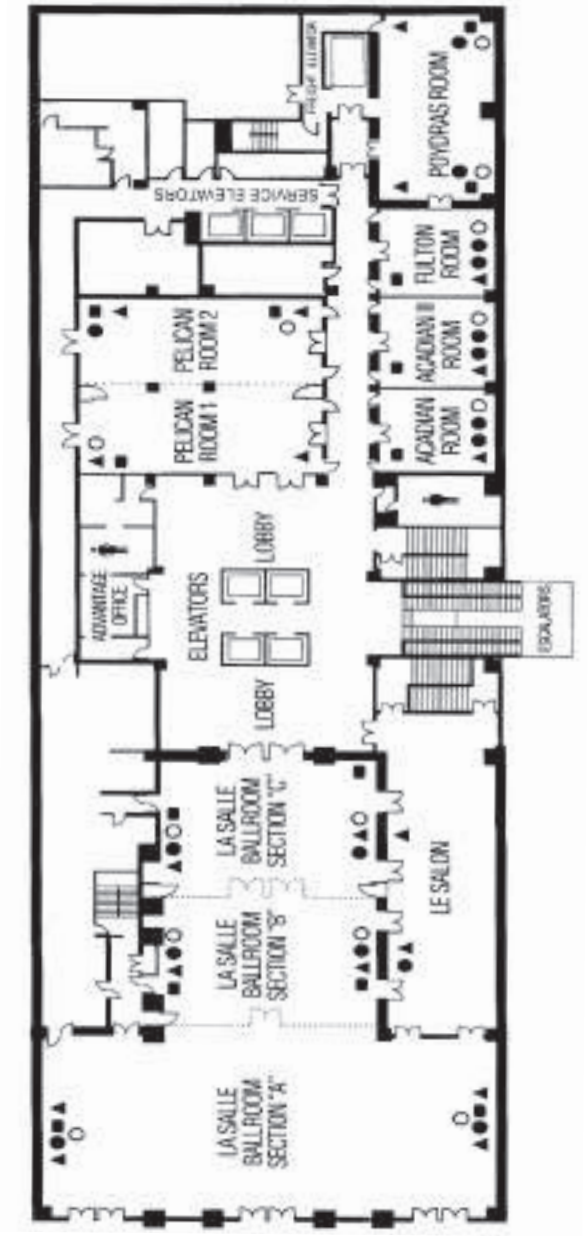
La Salle B – Sessions B

La Salle C – Sessions C

Pelican II – Sessions D

Acadian II – Speakers Preparation and Presentation Loading

Poydras Room – Speaker and Moderator Breakfast



NOTES

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