
APPENDIX F

Letters to US-Based Universities



THE UNIVERSITY OF THE WEST INDIES

ST AUGUSTINE, TRINIDAD AND TOBAGO, WEST INDIES

FACULTY OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

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Dr. John W. Tunnell Jr., Director
Center for Coastal Studies
Texas A&M University-Corpus Christi
Natural Resources Center-Suite 3200
6300 Ocean drive
Corpus Christi, TX 78412
USA

28-12-2000

Dear Sir,

PROFESSIONAL DEVELOPMENT TRAINING IN THE CARIBBEAN COASTAL INFRASTRUCTURE DESIGN, CONSTRUCTION AND MAINTENANCE

The Department of Civil Engineering, University of the West Indies, St. Augustine Campus, Trinidad and Tobago, is currently executing the development and delivery of a package of professional development training courses in Coastal Infrastructure Design, Construction and Maintenance (CIDCM) earmarked initially for the Caribbean Region. The programme is being done on contract to the USAID-OAS Hurricane Lenny Reconstruction Project in four Caribbean Island States, through the Engineering Institute, Faculty of Engineering, UWI, and course development activities are currently in progress.

Four short courses have been identified for development and delivery in the programme:

- 1) Coastal Zone/Island Systems Management;
- 2) Coastal Defense Systems;
- 3) Monitoring and Maintenance of Coastal Infrastructure; and
- 4) The Design of Marine Structures

The duration of the courses will range between three and five days each, and the issues to be addressed by each course are presented as topics in Appendix I along with the intended assignment of responsible resources. The delivery phase of the programme will begin in May 2001 and end in October 2001.

We are very interested in having a US based University as a partner in the detailed course development activities, and on this basis your University has been selected as one of three US Universities from which we are seeking responses to our request for assistance to compliment our stock of expert resources. The programme's Advisory Committee will select the successful University on the appropriateness of the respective response, after which contractual arrangements will be addressed and the implementation of services initiated.

The request is for the contribution of your University in all, or any combination of the following areas:

- Preparation of course materials for individual topics
- Collaboration in the preparation of course materials (joint preparation)
- Review of course materials already prepared
- Delivery of selected topics

Your response should indicate the interest and capability of your University in terms of expertise and experience in each of the above areas as they relate to the topics of each course. Comments on the coverage of the topics, assignment of responsibilities and an indication of costs at this stage, although not necessary, would be welcomed. Please note that the Advisory Committee reserves the right to configure the desired contribution to incorporate the participation of available Caribbean expertise.

You may also wish to develop materials for an entire course, and in such a case you will need to include this in your response. Such courses will have to be reviewed carefully by our Advisory Committee to ensure that it applies to the oceanographic, bathymetric, meteorological and geographic peculiarities of the Caribbean region.

We acknowledge that this time of year is a busy one for you, and our request is a bit sudden, but the demands of the project are such that we need to have a response before the 22nd January 2001. Please make every effort to respond in good time.

I look forward to hearing from you.

Sincerely,

Raymond Charles
Head of Department

Copy: Professor C. Sankat, Dean Faculty of Engineering, UWI
Mr. J. Vermeiren, Head, CIDCM Advisory Committee, OAS
Mr. W. Rajpaulsingh, Manager, Engineering Institute, UWI
Mr. M. Blackwood, USAID Coordinator, Hurricane Lenny Recovery Project

CIDCM Professional Development Programme

Appendix to Letter

Course No. 1 - Coastal Zone/Island Systems Management

Duration: 3 to 5 days (on each island)

Location: Antigua, Dominica, St. Lucia, Grenada

Target Audience: Planners, Surveyors, NGO's, Tourist Board/Hoteliers, Architects, Ministry of Works Engineers, Fisheries Officers, National Trust Staff, Private Sector Engineers, Coastal Stakeholders, Educators.

C	Elements of Coastal Zone Management	(Carib)*
C	Coastal Processes I	(US)
C	Coastal Hazards and Vulnerability	(US/Carib)
C	Land Use Planning	(Carib)
C	Legislative Environment and Policy	(Carib)
C	EIA	(Carib)
C	Marine Biological Issues	(Carib)
C	Beach Management	(US)
C	Climate Change	(US/Carib)
C	Data Collection and Analysis	(US)
C	Watershed Management and Coastal Water Quality	(US/Carib)

*Note: (Carib) means full Caribbean responsibility.
(US) means full US University responsibility.
(US/Carib) means joint responsibility with US lead.
(Carib/US) means joint responsibility with Caribbean lead.

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Course No. 2 - Coastal Defense Systems

Duration: Two 1 week courses

Classroom Portion, Session 1 (1 week)

Location: St. Lucia, large audience

Target Audience: Planners, Ministry of Works Engineers, Public and Private Sector Engineers.

C	Coastal Processes II	(US/Carib)*
C	Introduction to Coastal Defense Systems	(Carib)
C	Coastal Mapping Data Collection (Geotechnical, Geological, Bathymetric, Topographic, Hydrographic, etc.)	(US)
C	Coastal Hazards and Vulnerability	(Carib)
C	Sources and Uses of Coastal Hazard Information	(Carib)

Classroom Portion, Session 2 (1 week)

Location: Dominica, small audience

Target Audience: Public and Private Sector Engineers.

C	Codes of Practice/Design Criteria	(US/Carib)
C	Design of Coastal Roads	(Carib)
C	Design of Coastal Defense Works	(US/Carib)
C	Drawings, Specifications and Contract Documents	(US/Carib)

Field Portion, Dominica only

C	Visit to Projects, examples of successes and failures	(Carib)
C	Presentation by Consultants for a USAID Funded Project	(Carib)
C	Presentation by Contractor for a USAID Funded Project	(Carib)
C	Tour of Construction Sites	(Carib)

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Course No. 3 - Monitoring and Maintenance of Coastal Infrastructure

Duration: 4 days plus 1 day in field

Location: Grenada

Target Audience: Public Sector Officials, Emergency Relief Agencies, Operators of Ports and Marinas, Surveyors, Testing Agencies/Laboratories.

C	Monitoring of Coastal Erosion	(Carib/US)*
C	Materials in a Marine Environment	(US)
C	Vulnerability	(Carib/US)
C	Maintenance Management Systems	(US)
C	Inspection and Condition Surveys	
C	Analysis	
C	Program Development	
C	Implementation and Maintenance Methods	
C	Monitoring and Feedback	
C	Disaster Preparedness/Safety	(US)
C	Introduction to Data Acquisition and Remote Sensing	(Carib/US)
C	Replacement Analysis	(Carib)

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Course No. 4 - Design of Marine Structures

Duration: 1 week

Location: Trinidad & Tobago

Target Audience: Public and Private Sector Engineers

C	Hazard Assessments and Risk Analysis	(US/Carib)*
	C Winds, Waves, Seismic	
	C TAOS Model	
C	Codes of Practice and Design Standards	(US/Carib)
C	Design of Marine Structures	(Carib/SW)
C	Case Studies of Failures and Successes	(Carib)

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Copies of the attached letter to US-based universities and appendix were also sent to the following:

- C Professor Robert G. Dean
Head of Department of Coastal Engineering
University of Florida
Gainesville FL 32611
USA

- C Professor Frank Dale Morgan
Professor of Geophysics
Department of Earth, Atmospheric and Planetary Sciences
Massachusetts Institute of Technology
Earth Resources Laboratory
42 Carleton St., E34-412
Cambridge, MA 02142-1324

- C Dr. David R. Basco
Professor of Coastal Engineering
Department of Civil and Environmental Engineering
Kaufman Hall Room 135
College of Engineering and Technology
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