Consolidated report on conduct of Erudite Program at School of Marine Sciences

Department / School : School of Marine Sciences (lead by Department of Physical Oceanography)

Names of Scholar in Residence : Dr Sam Bentley and Dr Kennith A Rose, Professors at Louisiana State University

Brief CV (not exceeding one page) : Attached

Name of Co-ordinator : Dr A N Balchand, Professor

Erudite Program

Dates : 7 - 11 September 2015

Organiser : All Departments of School of Marine Sciences

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| Dates  | Venue  | Brief Objectives  | Participants No. category wise | Special Invites –Names | hard copy / CD Audio / video / ppt.  | Outcome – explain the benefits to dept., students, Research scholars, University, others  |
| 7-9-2015 | School of Marine Sciences  | Special talks on Louisiana Coastal and Estuarine environmentIntroduction of new approaches in field experiments &Research discussion  | 50 students 40 research scholars15 faculty  | Dr K T Damodaran & Dr Mohandas,Emeritus Professors  | HD photos and ppt. presenta- tions | Contrast and comparison of two land and nearshore environments from two continents perceptibly presented and appreciated by participants; need for SD is emphasised and new approaches in research dealt on discussion; evolve common understanding on areas of research interests; exchange concepts in advancement of physics of mud re-suspension, ecology models and innovations in mangrove management.   |
| 8-9-2015 | Fore noon, As above  | As above  | 50 students40 scholars15 faculty  | As above + Staff from NIO RC | As above | As above  |
|  | After noon | Admn. Block, Cochin 22 | CUSAT authorit-ies  |  | Photo- graphs  | Signing of M O U between CUSAT and LSU |
| 9-9-2015 | Punna-para, Thotta-pally & Varkala | Field visits to Mudbanks and Varkalli faults  | 7 – professors and scientists  | Dr Dinesh Kumar, NIO&Dr Padmalal, NCESS  | Photo-graphs  | Live witness to mudbank fishery activity; close field appreciation on nearshore mud suspension and resultant coastal processes. Investigation into Varkalli Faults – identification of formation of  |
| 10-9-2015 | Dr Sam : Trips to Thevara College andGovt. College, KottayamDr K A Rose:Trips to St Teresa’s College and School of Environmental Science at M G University  | Special Talks to students, researcher and faculty on coastal Geomorpho-logy Specialist seminar on Ecology and associated modelling; State of art Inter-national ventures in Marine Biology presented  | 100 students, 15 scholars and 12 faculty 70 students, 35 scholars, 20 faculty  | Pupil from Chemistry, Physics, Aqua-culture & geology attend the sessions.Students from science subjects, multi-disciplinary areas in environ-ments attend the seminar | Ppt. coverage and photo-graphsPpt coverage and photo- graphs | Exposure to high level research practises and new field measurement techniques towards better understanding of coastal environments; emphasis to include new concepts in evolution of land processes and catchment to coasts management. Teaching practices at LSU presented with opportunities for higher studies stated; ecology status at Louisiana State and Mississippi delta briefed; illustrations from field and lab experiments along with novelty and new ideas create great interest in audience; call for mangrove afforestation and care emphasised  |
| 11-9-2015 | School of Marine Sciences | Talks on Advance topics in radio geo-morphology and modelling along with identifica-tion of project topics for collabora-tion and Closure meeting during afternoon  | 40 students30 scholars 12 faculty  | Dr K T DamodaranEmeritus Professor& Dr Dinesh Kumar, NIO | Ppt coverage and photo-graphs | New light on advance techniques in geomorphological studies and ecological modelling presented.Detailed discussion held to evolve common research topics of mutual interest to CUSAT and LSU; thereon, identify venues to operate common projects on long term basis, apart from identifying topics where immediately research work shall commence, of significance to coastal and near-shore environments.  |

The following programmes involving the Scholar in Residence may be arranged

a. *Class room interaction*

Separate interaction with students of Geology and Oceanography held by Dr Sam Bentley on two days on subjects covering coastal processes, catchments to offshore management, physics of muddy waters and Dr K A Rose held discussion with students and scholars from Marine Biology in the field of ecology and modelling on the opening and closing days.

b. *Special / General Lectures*

Offered to students from colleges and University departments – 4 numbers

c. *Seminars/Workshops*

Two special workshops held in the specialised areas of the visitors

d. *Long / Short term collaborative research*

Areas identified : MUDBANKS, MANGROVES towards long term collaborative research and short term projects are in the areas of sediment dating, Indian monsoons and cyclone forecasting, identification of mangrove habitats in terms of selective sediment grounds, and coastal process modelling applying advance ROM and AVCOM.

e. *Discussion with Research Students about their projects*Individual to group level discussion held with scholars from Departments of Physical Oceanography, Marine Geology and Geophysics, Marine Biology, Chemical Oceanography and Atmospheric Science and researchers from Geology Department at Kottayam and School of Environmental Sciences of M G University.

f. *any others*

Sign M O U between CUSAT and L S U.

Foster strong interpersonal relation between teachers from LSU with our faculty here at CUSAT

Evolve a concrete follow up plan to promote international research between the two universities

Future visits and project consultations are underway

**Financial statement (Summary only)**

Budget proposed : Rs 4,48,000

Advance drawn : NIL

Actual expenditure : Rs 4,56,631/-

Date of Adjustment CB (contingent bill) : 15-1-2016 / revised 28-12-2016

Signature of co-ordinator

Please submit one hard copy (to : Registrar) along with softcopy to : naac\_cusat@cusat.ac.in