



**PREEMPTIVE**  
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San José, Costa Rica

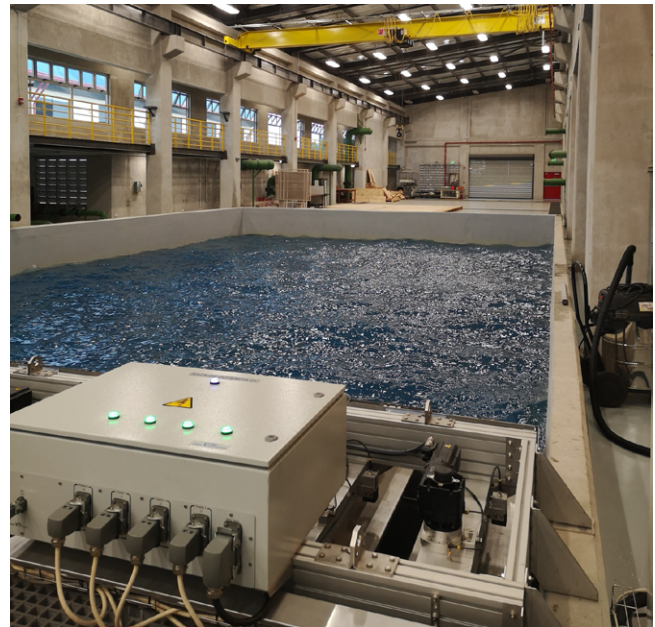
## INII MINI TOUR

The Institute of Engineering Research (*Instituto de Investigaciones en Ingeniería, INII*) performs high level scientific research in strategic fields for the university and the country. The fields of study are seismic engineering, wood technology and use of forest resources, metrology, maritime engineering and fluvial (INII, 2019).

### Earthquake Engineering Laboratory

The Earthquake Engineering Laboratory (*Laboratorio de Ingeniería Sísmica, LIS*) is an institute that studies the applications of earthquake engineering in relation with earthquake impact in the population areas, evaluating the effects on structures, soils, vital lines, etc.

The LIS performs a calculation of amplification effects, seismic intensity and response and design spectra in each report. In addition, the parameters of the seismic source, such as location and magnitude, are included by means of an accelerographic equipment. Also, the laboratory has a net of accelerographs around all country. It is the only laboratory in Costa Rica and Central America dedicated to the aforementioned studies (LIS, 2019).



IMARES

Maritime Engineering Unit of Rivers and Estuaries (*Unidad de Ingeniería Marítima de Ríos y Estuarios, IMARES*) is a multidisciplinary center conformed by agricultural engineers, civil engineers and topographers. Its research lines wanted offer efficient solutions in coast works and do a good gestion of the maritime and coastal ecosystems in the country.

The INII web page explain: "Among its main functions are: determination of wave conditions and extraordinary flows, flood zones, danger of erosion and sediment transport; In addition to the numerical propagation of waves and tidal waves and the design of sheltering protection works, both fluvial and coastal" (INII, Unidad de Ingeniería Marítima de Ríos y Estuarios, 2019).



## References

1. INII. (2019, JAN 18). *¿Quiénes Somos?* Retrieved from Instituto de Investigaciones en Ingeniería: <http://163.178.170.139/wordpress/>
2. INII. (2019, JAN 18). *Unidad de Ingeniería Marítima de Ríos y Estuarios.* Retrieved from Instituto de investigaciones en Ingeniería: <http://163.178.170.139/wordpress/index.php/imares/>
3. LIS. (2019, JAN 19). *Funciones del LIS.* Retrieved from Laboratorios de Ingeniería Sísmica: <http://www.lis.ucr.ac.cr/index.php?id=Nosotros>

