

**SHORT COURSE:****TECHNIQUES OF SAMPLING AND GEOCHEMICAL ANALYSIS OF MARINE SEDIMENTS**

A short course for **10/12 PhD students/young researchers'** will be held on **27<sup>th</sup> of September** (from 10.00 AM to 20.00 PM).



**Objective:** The course aims at providing a synthetic overview of the know-how of all issues related to sediment sampling and analysis. It is divided in two parts, part A comprises the first half day and it is related to standard operating procedures for obtaining marine

sediment samples from a boat in Ría de Vigo sea bed. Part B comprises sample handling and high-resolution

analyses by XRF in the labs of the University of Vigo. See below a wider description of both parts.

**PART A:** Standard operating procedures for the collection and processing of *sediment* samples including grab and core samples with different sediment sampling devices (shipeck, gravity corer, etc.). It covers station positioning, collection of sediment for sedimentological and geochemical analyses and sample handling for further analyses in part B.



**PART B:** It will be focused in the analysis of sediment cores with the ITRAX- Core Scanner of the University of Vigo. ITRAX is a laboratory instrument developed for measurements of the variation of density and chemical element composition along sediment cores. The instrument analyses flat samples as well as split cores. With the combination of optical imaging, high-resolution

radiographic density imaging and highly sensitive XRF analysis, very detailed structural variations are recorded together with the chemical basis for these variations.

The resolution capacity and analytical quality often makes it possible to follow variations on single lamina level.

**Some other information:**

The language of the conference will be English.

A certificate of attendance will be provided to all participants.

Please, register online at: [igcp526.geoma.net](http://igcp526.geoma.net)