

01
AUGUST
2012
CRS4

3 p.m.
Room D130

MINI
SEMINAR

Aspects of Processing, Inversion and Imaging of Marine Seismic Data.

Speaker

L. W. B. Leite

Professor of geophysics at the Graduate Course in Geophysics, and member of the Department of Geophysics of the Federal University of Par (Belem, Brazil).

Abstract

Prof. L. W. B. Leite will present main aspects of the work of the Applied Geophysics Department of the Federal University of Para. Besides scientific methods and results, he also will present scientific funding of projects, and possibilities for international collaboration will be briefly discussed.

In the main part of the talk, examples for the application of different subsurface imaging methods applied to the marine geology of the Brazilian continental shelf are presented. Results of the CRS stack method are compared to Kirchhoff depth migration results that were obtained using a macro-velocity model generated by NIP tomography.

The NIP tomography method is introduced and compared to a conventional approach based on semblance picking. Reverse time migration, a core area of present research, is briefly discussed and demonstrated by means of a synthetic data example. The influence of the forward modeling approach is evaluated comparing results obtained assuming a 2D medium and a 2.5D medium, respectively.

Finally he will conclude showing one picture of the thirsty sun drinking, and one of a beach of the Amazon tributary river Tapajos.

Contacts: Zeno Heilmann, e-mail: zeno@crs4.it