

General Theme 6

6.1

In memory of a pioneer who made invaluable contributions to the study of sedimentary dynamics of deep estuarine environments and coastal hydraulics. His efforts, in particular, towards building and running LabCT Scan (using medical scanners to visualize various geological media non-destructively in 3D) at the INRS in Quebec City is undoubtedly one of his greatest legacies and will continue to benefit society at large for generations to come.

This session covers a wide range of techniques, such as XRF (X-ray fluorescence), micro computed-tomography (micro-CT), helical computed-tomography (helical-CT), and hyperspectral imaging, that are used to image and evaluate sediment core samples in a non-destructive manner. Topics evaluated include hydrocarbon reservoir quality (porosity and permeability), palaeontology, physical sedimentary structures, and biogenic sedimentary structures. This session aims at bringing together users of these various non-destructive research tools and interested audience in order present the most recent developments in that field as well as examples of successful applications and cross-fertilization with other scientists involved in sedimentary basin analyses and resource evaluation.