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French Nationality
Born the 16th Septembre 1980
Single

Postdoctoral scholar at WHOI
Ph.D. of Geochemistry, CRPG-CNRS

Education and research experiences

- 10/2007 to 2009** **Postdoctoral scholar at WHOI** (*Woods Hole Oceanographic Institution, USA*), National Ocean Sciences Accelerator Mass Spectrometry Facility Postdoctoral Scholar - Subject: Role of continental erosion and climate change in the terrestrial organic carbon cycle: Insights from the Himalaya-Bengal Fan system - Advisors: Dr. Timothy Eglinton and Dr. Bernhard Peucker-Ehrenbrink
- 06/2007** **Ph.D at CRPG-CNRS** (*Centre de Recherche Pétrographiques et Géochimiques, Nancy, FRANCE*) - Title: Organic carbon export and burial during the continental erosion: the Himalayan system - Advisors: Dr. Christian France-Lanord and Dr Pierre Faure.
- 10/2002-04/2003** **Masters degree in research** (CRPG, Nancy) - Title: Organic carbon isotopic composition of Bengal fan sediments (DSDP Leg 22 Site 218) - Advisor: Dr. Christian France-Lanord - With Honors.
- 2003** **Masters degree in engineering** of the Ecole Nationale Supérieure de Géologie de Nancy
- 05/2003-09/2003** Visiting Scholar, Dept. of inorganic geochemistry, Total Exploration/Production (Pau, FRANCE) - Diagenetic reactions in carbonate reservoirs - Advisor: J.C. Lachapagne.
- 07/2003-08/2003** Visiting Scholar, Dept. of inorganic geochemistry, Total Exploration/Production (Pau, FRANCE) - Geochemistry of formation waters in North Sea oil and gas fields - Advisor: F. Walgenwitz.
- 2000 - 2003** **Ecole Nationale Supérieure de Géologie de Nancy** : Grande Ecole of engineering in geology
- 1998** **Scientific baccalaureate. High School Diploma.** Lycée Pierre d'Aragon, Muret. With Honors.

Publications

V. Galy, C. France-Lanord, O. Beyssac, P. Faure, H. Kudrass, F. Palhol. - Extreme efficiency of terrestrial organic carbon burial in the Bengal Fan - Submitted to **Nature**, in press.

V. Galy, C. France-Lanord, B. Lartiges. - Loading and fate of particulate organic carbon from the Himalaya to the Ganga-Brahmaputra delta - Submitted to **Geochimica et Cosmochimica Acta**, under revision (accepted with minor revisions).

V. Galy, L. François, C. France-Lanord, P. Faure, H. Kudrass, F. Palhol, S. Singh. - C4 plants decline in the Himalayan basin since the Last Glacial Maximum - Submitted to **Quaternary science reviews**, under revision (accepted with minor revisions).

V. Galy, J. Bouchez, C. France-Lanord. - Determination of total organic carbon content and $\delta^{13}\text{C}$ in carbonate rich detrital sediments - **Geostandards and Geoanalytical Research**, v31 n3, p199-207.

V. Galy, C. France-Lanord, A. Galy, J. Gaillardet, A. Gajurel, B. Lartiges, M. Rhaman, S. Singh - Enhanced soil erosion in the Ganga floodplain - To be submitted to **Nature Geosciences**.

F. Chabaux, M. Granet, E. Pelt, C. France-Lanord, V. Galy, (2006), ^{238}U - ^{234}U - ^{230}Th disequilibria and timescale of sedimentary transfers in rivers: clues from the Gangetic plain rivers - **Journal of Geochemical Exploration**, v 88, p373-375.

Selected Communications

V. Galy, C. France-Lanord - Organic Carbon Burial Generated by the Himalayan Erosion: Exceptional Burial Efficiency in the Bengal Fan Sediments - **AGU Fall meeting**, San Francisco (USA), 11-15 December 2006.

V. Galy, C. France-Lanord - Particulate organic carbon transport during himalayan erosion - **Goldschmidt conference**, Melbourne (Australia), 27 august, 2 September 2006.

V. Galy, C. France-Lanord - Particulate Organic Carbon Transport from the Himalaya to the Ganga-Brahmaputra Delta - **Himalaya-Karakoram-Tibet Workshop**, 29th-31st March 2006, Cambridge England. (Poster)

V. Galy, C. France-Lanord, L. Reisberg - Sr and Nd isotopic compositions of Bengal Fan (DSDP 218): Transhimalayan contribution to the Mio-Pliocene sediments? - **Himalaya-Karakoram-Tibet Workshop**, 29th-31st March 2006, Cambridge England.

V. Galy, F. Palhol - Molecular level stable isotope ratio measurements in Geosciences - Colloque du Réseau Matières Organiques - 22-24 January 2006, Carqueiranne, France. Invited Speaker.

C. France-Lanord, V. Galy, A. Galy and S.K. Singh - Suspended Sediment Variability in the Ganga Basin: Implications for Erosion Geochemical Budget and Organic Carbon Flux - **Thrust Belts and Foreland Basins**, Paris, France, 14-16 December 2005. Invited Speakers (co-presented by C. France-Lanord and V. Galy).

V. Galy, C. France-Lanord - Particulate Organic Carbon Transport From the Himalaya to the Ganga-Brahmaputra Delta - **AGU Fall meeting**, San Francisco (USA), 5-9 December 2005.

V. Galy, F. Palhol, P. Faure, C. France-Lanord - Last glacial cycle vegetation change in Himalaya from bulk and molecular $\delta^{13}\text{C}$ analyses in Bengal fan sediments - **International Meeting on Organic Geochemistry**, 12th-16th September 2005, Sevilla, Spain. (Poster)

V. Galy, C. France-Lanord, P. Huyghe - Geochemical differentiation induced by sediment transport in the Bengal fan: implications for carbon uptake budget - **Goldschmidt conference**, 7th-11th June 2004, Copenhagen, Denmark.

Technical skills

H, C, N, O, S stable isotopes measurement by continuous flow (GVinstruments Isoprime) and dual inlet (VG 602 d) gas-source mass spectrometer

Molecular level H and C stable isotope ratio measurement (GC-D-IRMS and GC-C-IRMS).

Organic matter solvent extraction (ASE 200), gas chromatography and mass spectrometry (GC-MS).

Conventional off line gas preparation for: carbonate C and O isotopes, bulk organic carbon $\delta^{13}\text{C}$ and $\Delta^{14}\text{C}$, dissolved inorganic carbon, $\delta^{18}\text{O}$ and D/H in water.

Teaching experiences

- 2005-2006** Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 4h of classes: Climatic evolution of the Earth.
- 2005-2006** Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 24h of classes: General geochemistry (in collaboration with Pr. B. Marty).
- 2005-2006** University Henry pointcarré, Nancy I, candidate to the High School teacher competitive exam. 4h of classes: The global carbon cycle and the Neoproterozoic glaciations.
- 2005-2006** Ecole Nationale Supérieure de Géologie, second year. Supervision of two students for a 1 month research training period. *Subject: Geochemical variability of the sedimentary flux in the Marsyandi river (Nepal).*
- 2004-2005** Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 24h of classes: General geochemistry (in collaboration with Pr. B. Marty).
- 2004-2005** Institut National Polytechnique de Lorraine (INPL) - 4h of classes: Interactions between tectonic, erosion and climate.

Languages

- French** Mother Tongue.
- English** Good Working knowledge. **First Certificate in English** (University of Cambridge).
- German** Basic notions.

Administrative responsibilities

- 2005-2007** Elected as student's representative to the General Board of the CRPG.
- 2001-2003** Elected as student's representative to the General Board and the Teaching committee of the ENSG.
- 2000-2002** Elected as student's representative to the General Board of the INPL University (Institut National Polytechnique de Lorraine, France).