

Dr. Valier GALY

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Biogeochemist

Associate Scientist at *Woods Hole Oceanographic Institution*

Education

- 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.
- 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.
- 1998** **Scientific baccalaureate. High School Diploma.** Lycée Pierre d'Aragon, Muret. With Honors.

Professional Experience

- Since 3/2015** **Associate Scientist at WHOI**, department of Marine Chemistry and Geochemistry (*Woods Hole Oceanographic Institution, USA*)
- 12/2010-2/2015** **Assistant Scientist at WHOI**, department of Marine Chemistry and Geochemistry (*Woods Hole Oceanographic Institution, USA*)
- 10/2007-11/2010** **Postdoctoral scholar/investigator at WHOI** - 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

Awards

- 2014 Invited to sail as organic geochemist, IODP expedition 354 Bengal Fan.
- 2007 Woods Hole Oceanographic Institution Postdoctoral Scholarship.
- 2007 Caltech Texaco Postdoctoral Fellowship (declined).
- 2007 Dissertation Award of the Institut National Polytechnique de Lorraine, France.

Professional Affiliations

- 2005-present** American Geophysical Union.

Research Interests

My research focuses on multiple aspects of biogeochemistry from terrestrial and oceanic C cycle to deep biosphere and paleo-climate. This includes:

- Fluvial transfer of organic carbon from continental reservoirs to the ocean.
- Impact of climate change on the dynamics of terrestrial organic carbon cycling.
- Deep biosphere, role of microbial communities in sedimentary systems.
- Carbon cycling in the Critical Zone.
- Radiocarbon dating (compound specific, ramped pyrolysis/oxidation), new dating techniques.
- Developing paleo-climate proxies, e.g. compound specific stable isotopic measurements.
- Relationships between erosion, tectonics and climate over long timescales.

Professional activities

- 2014** Panelist for the National Science Foundation.
- 2013 - present** Associate editor of Earth Surface Dynamics, open access journal of the EGU published by Copernicus.
- 2012 - present** Organized and chaired 3 sessions at Goldschmidt Conference (2012-2013-2014)
- 2012** Participated in the “IODP building US strategies for 2013-2023 scientific drilling” meeting (Denver, CO).
- 2007 - present** Frequent reviewer for Biogeosciences, EPSL, French ANR, GBC, GCA, Geology, G³, GRL, Limnology and Oceanography, Marine Environmental Research, Marine Geology, Nature, Nature Geosciences, NERC, PNAS, Quaternary Geochronology, Swiss NSF, US NSF.

Participation in Education Program

- 2011** MIT-WHOI Joint Program. 2h lecture in the Marine Organic Geochemistry class (D. Repeta). *Transfer of organic carbon from continents to the oceans: consequences for the global C cycle.*
- 2010 - present** MIT-WHOI Joint Program: member of 2 thesis committees, chair of 1 thesis defense.
- 2005-2006** Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 4h of classes: Climatic evolution of the Earth.
- 2005-2006** Teaching Assistant - Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 24h of classes: General geochemistry (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.
- 2004-2005** Teaching Assistant - Ecole Nationale Supérieure de Géologie de Nancy (ENSG), second year - 24h of classes: General geochemistry (Pr. B. Marty).
- 2004-2005** Institut National Polytechnique de Lorraine (INPL) - 4h of classes: Interactions between tectonic, erosion and climate.

Supervision at WHOI

- 2012 - present** Supervision of Research Specialist C. Johnson.
- 2011 - 2013** Supervision of Research Assistant X. Philippon (now at IFREMER, France).

Mentoring at WHOI - To date: 7 postdoctoral scientists and 3 MIT/WHOI graduate students

- 2015 – present** Agouron Geobiology Postdoctoral Fellow Katherine French
- 2015 – present** Postdoctoral Fellow William Orsi
- 2014 – present** Postdoctoral Scholar Kristina Brown
- 2014** Summer Student Fellow H. Pryer.
- 2014** Visiting graduate students X. Cui (University of Florida), T. Rigaudier (CRPG Nancy, France), K. Grant (Cornell University).
- 2013 - present** Postdoctoral Scholar G. Soulet.

2013	Visiting graduate student G. Morin (CRPG Nancy, France), visiting postdoctoral scientist C. Ponton (University of Southern California), PEP (Partnership in Education Program) student S. Karim, Undergraduate student Gabrielle Melo Fernandez (Brazil's Science without border program), Undergraduate student Andrew Gorin.
2012 - present	Graduate students from the MIT-WHOI Point Program: K. Fornace (4 th year), J. Hemingway (3 rd year), S. Rosengard (3 rd year).
2012 - present	Postdoctoral investigator J. Abruszewski.
2012 - 2013	Postdoctoral investigator N. Dubois (now tenure track scientist at EAWAG, Switzerland).
2011 - 2013	Postdoctoral Scholar C. Hein (now assistant professor at VIMS).
2012	Undergraduate student M. Razu (Dhaka University, Bangladesh) - 3 months visit. PEP (Partnership in Education Program) student S. Riley.
2011	Summer Student Fellow S. Pattel.
2009-2010	Undergraduate guest student M. Bollard (ENSG, France) - 6 months visit.
2009	Graduate student S. Agrawal (Indian Institute of Technology in Kharagpur, India) - 2 months visit.

Fieldwork and Cruises

2015	IODP Expedition 354 "Bengal Fan" – 8 weeks.
2014	Amazon River (Brazil) – 1 week.
2013	Madre de Dios River (Amazon River basin, Peru) – 2 weeks.
2011-2012	Time series sampling of 4 rivers draining into Narragansett Bay (US).
2011	Team leader: Mackenzie River (Northwest Territories, Canada) – 2 weeks.
2011	Team leader: Ganges-Brahmaputra river system (Nepal and Bangladesh) - 2 weeks.
2010	Team leader: Ganges-Brahmaputra river system (Nepal and Bangladesh) - 3 weeks.
2010	Team leader: Mackenzie River (Northwest Territories, Canada) – 2 weeks.
2009	Team leader: Mackenzie River (Northwest Territories, Canada) – 2 weeks.
2009	Mackenzie River Delta (Northwest Territories, Canada) – 2 weeks.
2008	Ganges-Brahmaputra river system (Bangladesh) - 2 weeks.
2007	Team leader: Ganges-Brahmaputra river system (Nepal and Bangladesh) - 3 weeks.
2005	Ganges-Brahmaputra river system (Nepal and Bangladesh) - 4 weeks.
2004	Ganges-Brahmaputra river system (Nepal and Bangladesh) - 5 weeks.
2004	Ganges-Brahmaputra river system (India) - 2 weeks.

Submitted manuscripts - * denotes advised or co-advised students and postdocs

- [34] K. Fornace*, B. Whitney, **V. Galy**, K. Huguen, F. Mayle – Late Quaternary environmental change in the interior South American tropics: new insight from leaf wax stable isotopes. *EPSL*, in review.
- [33] T. Bianchi, **V. Galy**, B. Rosenheim, M. Shields, X. Cui, P. Van Metre – Paleoreconstruction of Organic Carbon Inputs to an Oxbow Lake in the Mississippi River Watershed: Effects of Dam Construction and Land-Use Change on Regional Inputs. *Geophysical Research Letters*, in review.
- [32] B. Voss et al. (including **V. Galy**) – Seasonal hydrology drives rapid shifts in the flux and composition of dissolved and particulate organic carbon and mercury in the Fraser River, Canada. *Biogeosciences*, in review.
- [31] G. Soulet*, L. Skinner, S. Beaupre, **V. Galy** – Reporting of reservoir ¹⁴C disequilibria and ¹⁴C age offsets. *Radiocarbon*, in review.

Peer reviewed publications - * denotes advised or co-advised students and postdocs

- [30] R. Hilton, **V. Galy**, J. Gaillardet, M. Dellinger, C. Bryant, D. Gröcke, J. Bouchez, D. Calmels (2015) - Erosion in the Arctic as a geological carbon dioxide sink. *Nature*, v 524, p84-87.
- [29] **V. Galy**, B. Peucker-Ehrenbrink, T. Eglinton (2015) – Global export of carbon from the terrestrial biosphere controlled by erosion. *Nature*, v 521, p204-207.
- [28] R. W. Smith, T. S. Bianchi, M. Allison, C. Savage, **V. Galy** (2015) – High rates of organic carbon burial in fjord sediments globally. *Nature Geoscience*, v 8, p450-453. *Cover of the June 2015 issue.*
- [27] C. Ponton, A. J. West, S. J. Feakins, **V. Galy** (2014) - Leaf wax biomarkers in transit record river catchment composition. *Geophysical Research Letters*, v 41.
- [26] M. Dellinger, J. Gaillardet, J. Bouchez, D. Calmels, **V. Galy**, R.G. Hilton, P. Louvat, C. France-Lanord (2014) - Lithium isotopes reveal the cannibalistic nature of modern continental erosion. *EPSL*, v 401, p359-372.
- [25] N. Dubois*, D. Oppo, **V. Galy**, M. Mohtadi, S. Van der Kaars, J. Tierney, Y. Rosenthal, T. Eglinton, A. Lückge, B. Linsley (2014) Indonesian vegetation response to changes in rainfall seasonality over the past 25,000 years. *Nature Geoscience*, v 7, p513-518.
- [24] J. Bouchez, **V. Galy**, R.G. Hilton, J. Gaillardet, P. Moreira-Turcq, M. Andrea Pérez, C. France-Lanord, L. Maurice (2014) - Source, transport, and fluxes of Amazon River particulate organic carbon: insights from river sediment depth-profiles. *Geochimica et Cosmochimica Acta*, v 133, p280-298.
- [23] S. Agrawal*, **V. Galy**, P. Sanyal, T.I. Eglinton (2014) - C4 plant expansion in the Ganga Plain during the last glacial cycle: insights from isotopic composition of vascular plant biomarkers. *Organic Geochemistry*, v 67, p58-71.
- [22] **V. Galy**, C. Hein*, C. France-Lanord, T.I. Eglinton (2013) - The evolution of carbon signatures carried by the Ganges-Brahmaputra River system: A source-to-sink perspective – in “Biogeochemical Dynamics at Large River-Coastal Interfaces: Linkages with Global Climate Change”. Editors: T. S. Bianchi, M. A. Allison, W.-J. Cai. Cambridge University Press.
- [21] S. Schouten et al. (including **V. Galy**) (2013) - An interlaboratory study of TEX86 and BIT analysis of sediments, extracts and standard mixtures. *G-cubed*, v 14.
- [20] S. R. Shah, D. R. Griffith, **V. Galy**, A. P. McNichol, T. I., Eglinton (2013) - Prominent bacterial heterotrophy and sources of ¹³C-depleted fatty acids to the interior Canada Basin. *Biogeosciences*, v 10, p7065-7080.
- [19] P.-H. Blard, J. Lavé, F. Sylvestre, C. Placzek, C. Claude, **V. Galy**, T. Condom, B. Tibari (2013) - Cosmogenic ³He production rate in the tropical Andes (3800 m, 20°S): further evidences for synchronism between the Lake Tauca highstand and the local last glacial maximum – *EPSL*, v 377-378, p260-275.
- [18] Lupker, M., C. France-Lanord, **V. Galy**, J. Lave, H. Kudrass (2013) Increasing chemical weathering in the Himalayan system since the Last Glacial Maximum - *EPSL*, v 365, p243-252.
- [17] Rosenheim, B., **V. Galy** (2012) – Direct measurement of riverine particulate organic carbon age structure – *Geophysical Research Letters*, v 39.
- [16] Lupker, M., C. France-Lanord, **V. Galy**, J. Lave, J. Gaillardet, A.P. Gajurel, C. Guilmette, M. Rahman, S.K. Singh, R. Sinha (2012) - Predominant floodplain over mountain weathering of Himalayan sediments (Ganga Basin) – *Geochimica et Cosmochimica Acta*, v 84, p410-432.
- [15] **V. Galy**, T. Eglinton. (2011) - Protracted storage of biospheric organic carbon in the Ganges-Brahmaputra basin – *Nature Geoscience*, v 4, p843-847.
- [14] Lupker, M., C. France-Lanord, J. Lavé, J. Bouchez, **V. Galy**, F. Métivier, J. Gaillardet, B. Lartiges, J.-L. Mugnier. (2011) - A Rouse-based method to integrate the chemical composition of river sediments: application to the Ganga basin – *Journal of Geophysical Research - Earth Surface*, v 116, p1-24.

- [13] V. Galy, T. Eglinton, C. France-Lanord, S. Sylva. (2011) - The provenance of vegetation and environmental signatures encoded in vascular plant biomarkers carried by the Ganges-Brahmaputra rivers –*EPSL*, v 304, p1-12.
- [12] E. Garzanti, S. Andò, C. France-Lanord, P. Censi, P. Vignola, V. Galy, M. Lupker. (2011) - Mineralogical and chemical variability of fluvial sediments, 2: Suspended-load silt (Ganga-Brahmaputra, Bangladesh) –*EPSL*, v 302, p107-120.
- [11] V. Galy, C. France-Lanord, O. Beyssac, B. Lartiges, M. Rahman. (2011) - Organic carbon cycling during Himalayan erosion: processes, fluxes and consequences for the global carbon cycle - In : R. Lal et al. (Eds), *Climate Change and Food Security in South Asia* (Springer).
- [10] E. Garzanti, S. Andò, C. France-Lanord, G. Vezzoli, P. Censi, V. Galy, Y. Najman. (2010) - Mineralogical and chemical variability of fluvial sediments, 1: Bedload sand (Ganga-Brahmaputra, Bangladesh) –*EPSL*, v 299, p368-381.
- [9] P.D. Clift, L. Giosan, A. Carter, E. Garzanti, V. Galy, A.R. Tabrez, M. Pringle, I.H. Campbell, C. France-Lanord, J. Blusztajn, C. Allen, A. Alizai, A. Lückge, M. Danish, M.M. Rabbani. (2010) - Monsoon control over erosion patterns in the Western Himalaya: possible feed-backs into the tectonic evolution - *Geological Society of London, Special Publication*, v 342, p185-218.
- [8] V. Galy, C. France-Lanord, B. Peucker-Ehrenbrink, P. Huyghe. (2010) - Sr-Nd-Os evidence for a stable erosion regime in the Himalaya during the past 12 Myr – *EPSL*, v 290, p474-480.
- [7] J. Bouchez, O. Beyssac, V. Galy, J. Gaillardet, C. France-Lanord. (2010) - Oxidation of rock-derived organic carbon in the Amazon floodplain as a source of atmospheric CO₂ - *Geology*, v 38, p255-258.
- [6] V. Galy, O. Beyssac, C. France-Lanord, T. Eglinton. (2008) - Recycling of graphite during Himalayan erosion: a geological stabilisation of C in the crust - *Science*, v 322, p943-945.
- [5] V. Galy, L. François, C. France-Lanord, P. Faure, H. Kudrass, F. Palhol, S. Singh. (2008) - C₄ plants decline in the Himalayan basin since the Last Glacial Maximum - *Quaternary Science Reviews*, v 27, p1396-1409.
- [4] V. Galy, C. France-Lanord, B. Lartiges. (2008) - Loading and fate of particulate organic carbon from the Himalaya to the Ganga-Brahmaputra delta - *Geochimica et Cosmochimica Acta*, v 72, p1767-1787.
- [3] V. Galy, C. France-Lanord, O. Beyssac, P. Faure, H. Kudrass, F. Palhol. (2007) - Efficient organic carbon burial in the Bengal fan sustained by the Himalayan erosional system - *Nature*, v 450, p407-410.
- [2] V. Galy, J. Bouchez, C. France-Lanord. (2007) - Determination of total organic carbon content and δ¹³C in carbonate rich detrital sediments - *Geostandards and Geoanalytical Research*, v 31, 3, p199-207.
- [1] F. Chabaux, M. Granet, E. Pelt, C. France-Lanord, V. Galy. (2006) - ²³⁸U-²³⁴U-²³⁰Th disequilibria and timescale of sedimentary transfers in rivers: clues from the Gangetic plain rivers - *Journal of Geochemical Exploration*, v 88, p373-375.

Invited Communications

V. Galy et al. - Timescales of plant wax storage and transport in river systems: what's in an age? – **Plant Waxes from Biosynthesis to Burial**, Ascona (Switzerland), June 15th-19th 2015.

V. Galy et al.- Climate forcing of the terrestrial organic carbon cycle during the last deglaciation: the Himalaya-Bengal fan example – **AGU Fall meeting**, San Francisco, CA, December 15th-19th 2014.

V. Galy et al.- A global perspective on riverine export of terrestrial organic carbon to the ocean – **AGU Fall meeting**, San Francisco, CA, December 15th-19th 2014.

V. Galy - A global perspective on riverine export of terrestrial organic carbon to the ocean: climatic or geomorphic forcing? – **University of Florida, Gainesville**, FL, November 6th 2014.

- V. Galy - A global perspective on riverine export of terrestrial organic carbon to the ocean: climatic or geomorphic forcing? – **University of Colorado, Boulder**, CO, January 29th 2014.
- V. Galy et al.- Erosion controls the global export of carbon from the terrestrial biosphere – **ASLO Aquatic Sciences meeting**, New Orleans, LO, February 17th-22nd 2013.
- V. Galy et al.- Erosion controls the global export of carbon from the terrestrial biosphere – **AGU Fall meeting**, San Francisco, CA, December 3rd-7th 2012.
- V. Galy et al.- Towards a global understanding of the dynamics of terrestrial OC transfer to the ocean – **University of Connecticut at Avery point**, Groton, Ct - November 16th 2012.
- V. Galy et al.- Dynamics of fluvial release of terrestrial OC: what role for climate? – **5th International Workshop on Soil and Sedimentary Organic Matter Stabilization and Destabilization**, Ascona, Switzerland – October 7-11 2012.
- V. Galy et al.- Towards a global understanding of the dynamics of terrestrial OC transfer to the ocean – **University of Southern California**, Los Angeles, Ca, October 3rd 2012.
- V. Galy, B. Peucker-Ehrenbrink, T. Eglinton - Towards a global understanding of the dynamics of terrestrial OC transfer to the ocean – **Gordon Research Conference on organic geochemistry**, Holderness, NH, July 29th – August 3rd 2012.
- V. Galy, et al. - Dynamics of particulate organic carbon transfer to the ocean: a source to sink perspective – **Ocean Carbon Biogeochemistry workshop**, Woods Hole, MA, 16-19 July 2012.
- V. Galy, T. Eglinton, et al. - Source-to-sink dynamics of organic carbon transfer to the ocean: towards a global perspective – **Texas A&M University**, College Station, TX, 14 November 2011.
- V. Galy, T. Eglinton, et al. - Source-to-sink dynamics of organic carbon transfer to the ocean: towards a global perspective – **Cornell University**, Ithaca, NY, 26 October 2011.
- V. Galy, T. Eglinton, et al. - Isotopic anatomy of the Ganges-Brahmaputra river system: insights into the dynamic of terrestrial organic carbon cycling – **ETH**, Zurich, 12 May 2010.
- V. Galy, et al. - Exploring the provenance of vegetation and environmental signatures encoded in vascular plant biomarkers carried by the Ganges-Brahmaputra rivers – **EGU meeting**, Vienna (Austria), 3-7 May 2010.
- V. Galy, T. Eglinton, B. Peucker-Ehrenbrink, C. France-Lanord, O. Beyssac, H. Kudrass - Export and Burial of Organic Carbon in the Himalayan System: a new look at the short and long-term C cycles – **University of Colorado, Boulder**, CO, 09 December 2009.
- V. Galy, C. France-Lanord, O. Beyssac, H. Kudrass, T. Eglinton, B. Peucker-Ehrenbrink - Export and Burial of Organic Carbon in the Himalayan System: a new look at the long-term C cycle - **GEOTOP** (University of Quebec in Montréal), Montréal (Canada), 08 January 2009.
- V. Galy, C. France-Lanord, O. Beyssac, H. Kudrass, T. Eglinton, B. Peucker-Ehrenbrink - Export and Burial of Organic Carbon in the Himalayan System: a new look at the long-term C cycle - **Tulane University**, New Orleans (USA), 24 October 2008.
- V. Galy, C. France-Lanord, O. Beyssac, H. Kudrass, T. Eglinton, B. Peucker-Ehrenbrink - Export and Burial of Organic Carbon in the Himalayan System: a new look at the long-term C cycle - **Laboratoire des Sciences du Climat et de l'Environnement** (LSCE), Gif/Yvette (France), 17 July 2008.
- V. Galy, C. France-Lanord, A. Galy, J. Gaillardet - Anthropogenic Increase Of Soil Erosion In The Gangetic Plain Revealed By Geochemical Budget Of Erosion - **AGU Fall meeting**, San Francisco (USA), 10-14 December 2007.

Other Communications (presenting author only)
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- V. Galy, B. Peucker-Ehrenbrink, T. Eglinton - A global perspective on riverine export of terrestrial organic carbon to the ocean – **Goldschmidt conference**, Sacramento (USA), 8-13 June 2014. (Poster)

- V. Galy, B. Peucker-Ehrenbrink, T. Eglinton – Erosion controls the global export of carbon from the terrestrial biosphere – **WHOI, MCG seminar**, September 10th 2013.
- V. Galy, T. Eglinton, C. France-Lanord - Organic carbon residence time in the Ganges-Brahmaputra river system: how long is the journey to the Bay of Bengal?- **Chapman conference: Source to Sink**, Oxnard (USA), 24-27 January 2011. (Poster)
- V. Galy, T. Eglinton, C. France-Lanord, S. Sylva - The provenance of vegetation and environmental signatures encoded in vascular plant biomarkers carried by the Ganges-Brahmaputra rivers - **AGU Fall meeting**, San Francisco (USA), 13-17 December 2010. (Poster)
- V. Galy, T. Eglinton, C. France-Lanord - Protracted storage of biospheric organic carbon in the Ganges-Brahmaputra basin: “tropical permafrost”? – **Gordon Research Conference of Organic Geochemistry**, Holderness (NH, USA), 1-5 August 2010. (Poster)
- V. Galy, C. France-Lanord, B. Peucker-Ehrenbrink, P. Huyghe - Sr-Nd-Os evidence for a stable erosion regime in the Himalaya during the past 12 Myr – **EGU meeting**, Vienna (Austria), 3-7 May 2010. (Poster)
- Valier Galy, B. Peucker-Ehrenbrink, et al. - Controls on the flux, age and composition of terrestrial organic matter exported by rivers to the ocean – **EGU meeting**, Vienna (Austria), 3-7 May 2010.
- V. Galy, T. Eglinton, C. France-Lanord - Organic carbon export during Himalayan erosion: time constraints from bulk and molecular level radiocarbon dating – **International Meeting on Organic Geochemistry**, Bremen (Germany), 6-11 September 2009. (Poster)
- V. Galy, C. France-Lanord, L. François - C4 Plants Decline in the Himalayan Basin Since the LGM: Implications for the Evolution of the Monsoon - **AGU Fall meeting**, San Francisco (USA), 15-19 December 2008. (Poster)
- V. Galy, O. Beyssac, C. France-Lanord, T. Eglinton - Selective Recycling of Graphite During Continental Erosion: a Long-Term Stabilization of C in the Crust - **AGU Fall meeting**, San Francisco (USA), 15-19 December 2008. (Poster)
- V. Galy, C. France-Lanord, O. Beyssac, H. Kudrass, T. Eglinton - Efficient Organic Carbon Burial in the Bengal Fan sustained by the Himalayan Erosional system - **Ocean Sciences meeting**, Orlando (USA), 3-7 March 2008.
- V. Galy, C. France-Lanord, B. Lartiges - Particulate organic carbon transport from the Himalaya to the Ganga-Brahmaputra Delta - **International Conference on Deltas**, Dhaka (Bangladesh), 6-13 January 2008. (Poster)
- V. Galy, C. France-Lanord, O. Beyssac, P. Faure, H. Kudrass, F. Palhol - Efficient Organic Carbon Burial in the Bengal Fan sustained by the Himalayan Erosional system - **International Conference on Deltas**, Dhaka (Bangladesh), 6-13 January 2008.
- V. Galy, O. Beyssac, C. France-Lanord - Erosion, Transport and Burial Of Petrogenic Organic Carbon In the Himalayan System: A Closed Loop In The Carbon Cycle? - **AGU Fall meeting**, San Francisco (USA), 10-14 December 2007. (Poster)
- 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, 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 d13C 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.

Grants

2014-2016 NSF – P2C2. Title: Mio-Pliocene evolution of the Indian summer monsoon recorded in the Bengal Fan. PI: V. Galy. 135,808

2014-2017 NSF – MGG. Title: Oxygen Minimum Zone variability and Ecosystem Responses in the Arabian Sea during the Last Glacial-Interglacial Cycle: A Paired Paleogenomic and (Isotopic) Lipid Biomarker Approach. PIs: M. Coolen, V. Galy, L. Giosan. 550,000\$

2013-2015 NSF – MGG. Title: The response of the terrestrial carbon cycle to climate change since LGM as recorded in Bengal Fan sediments. PI: V. Galy. 293,917\$

2012-2015 NSF – P2C2. Title: A Combined Proxy and Model Investigation of Late Holocene Paleoclimate in the Horn of Africa. PIs: J. Tierney, V. Galy, C. Ummenhofer. 464,866\$

2012-2013 WHOI Interdisciplinary award. Title: The Hydrobiogeochemistry of Rivers in Rhode Island and southern Massachusetts. PIs: B. Peucker-Ehrenbrink, A. Wang, V. Galy, M. Coolen, K. Lamborg, C. Breier. 40,746\$

2012-2013 Van Beuren Charitable Foundation Award. Title: River input into Rhode Island's coastal ecosystems. PIs: B. Peucker-Ehrenbrink, A. Wang, V. Galy. 124,000\$

2011-2012 WHOI Mary Sears visitor Award. Title: International collaboration to study the seasonal variability of sediment load carried by the Ganges and Brahmaputra rivers (Bangladesh). PI: V. Galy. 5000\$

2011 NOSAMS Research Initiative Award. Title: Structure, reactivity and residence time of terrestrial organic carbon: insights from Programmed-temperature Pyrolysis/Combustion of Himalayan river sediments. PIs: V. Galy, S Beaupre. 20 AMS dates.

2011-2013 WHOI Coastal Ocean Institute. Title: Exploring the Nitrogen Cycle in the Ganges-Brahmaputra Estuary. PI: V. Galy. 50,374\$

2010-2012 WHOI – ARI. Title: Transfer of terrestrial organic carbon in the Mackenzie River system. co-PIs: V. Galy, B. Peucker-Ehrenbrink, T. Eglinton, Z.A. Wang, S.A. Soule. 296,344\$

2009-2013 NSF - ETBC (EAR and OCE). Title: Controls on the Flux, Age, and Composition of Terrestrial Organic Carbon Exported by Rivers to the Ocean. PIs: B. Peucker-Ehrenbrink, T. Eglinton, V. Galy, S.A. Soule, R.M. Holmes, S.J. Goetz, N.T. Laporte, W.Wollheim. 1,457,441\$

2009-2012 NSF - OCE. Title: Developing a global perspective on dynamic of riverine transfer of terrestrial biospheric carbon to the ocean. PIs: T. Eglinton, V. Galy. 304,560\$

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