

## Edgardo M. Latrubesse

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### EDUCATION

- National University of San Luis, Argentina, BSc. in Geological Sciences, 1989.
- National University of San Luis, Argentina, PhD. in Geological Sciences, 1992 (max. qualifications/honors).

**NATIONALITY:** United States of America/ Argentinean

### FIELDS OF RESEARCH AND PROFESSIONAL INTEREST

Geomorphology, fluvial geomorphology and sedimentology, river management, Quaternary of tropical, sub-tropical and temperate/semiarid environments including large aeolian systems and fluvio-aeolian interactions, geo-ecology, geomorphology and global changes, theoretical geomorphology, reorganization of large fluvial systems during the Neogene, interaction between biotic and abiotic components and human impacts on physical geomorphic processes, natural hazards.

### PROFESSIONAL APPOINTMENTS

#### Current

Raymond Dickson Centennial Professor, University of Texas at Austin, Department of Geography and the Environment. PI-Head Geosciences Lab, Soils and Sediment Lab, Environmental Analysis Lab, and Core Processing Lab.

Director (four labs): Geosciences lab, Soils and Sediments lab, Core-processing lab, Environmental. The University of Texas at Austin, Dep. Geography and the Environment.

Affiliate Faculty of LLILAS - Teresa Lozano Long Institute of Latin- American Studies-The University of Texas at Austin.

Affiliate Faculty of the Environmental Sciences Institute, University of Texas at Austin.

Affiliate Faculty Earth and Energy Graduate Program. Jackson School, UT-Austin

Affiliate Faculty of the Geosciences and the Environment Graduate Program, Institute of Geosciences, State University of Sao Paulo-UNESP, Rio Claro, Brazil.

#### Prior Positions/Employment

**2013-2017.** Professor, University of Texas at Austin, Department of Geography and the Environment

**2016-2017.** Visiting Professor, Asian School of the Environment-ASE and Earth Observatory of Singapore-EOS, Nanyang Technological University-NTU, Singapore.

**2009-2013-** Associate Professor, The University of Texas at Austin, Department of Geography and the Environment.

**2008-2009** - Thomas W. Rivers Distinguished Visiting Professor in International Affairs, Department of Geological Sciences, East Carolina University-ECU, Greenville, NC, USA.

**2007-2009** - Director/Chair, Laboratory of Tritium and Radiocarbon-LATYR- CIG-CONICET- National Council of Research and Universidad Nacional de La Plata and researcher of CONICET, National Council of Research, Argentina.

**2006-2009** – Full Profesor, Universidad Nacional de La Plata, Argentina, Centro de Investigaciones Geológicas-CIG, La Plata, (Bs. As)-Argentina and researcher of CONICET, National Council of Research, Argentina.

**2002-2006** - Scientific and administrative responsible for the collaboration program between University of Modena-Italy and Federal University of Goias-Brazil.

**2001-2003** - Vice-Head and Co-Founder, Ph.D. Multidisciplinary program in Environmental Sciences, Federal University of Goias, Brazil.

**1998-2006** - Federal University of Goias, Associate Professor, Institute of Social and Environmental Sciences, Department of Geography (Master and undergraduate courses), and PhD multidisciplinary Course in Environmental Sciences, Brazil.

**1998-2006** - Head and Founder, Laboratory of Geology and Physical Geography-LABOGEF, Federal University of Goias, Brazil.

**1994-1998** - Head and Founder, Laboratory of Geomorphology and Sedimentology, Federal University of Acre, Brazil

**1994-1998** - Contracted Foreign Professor, Federal University of Acre, Department of Geography, Rio Branco, Brazil.

**1991-1993** - Contracted Foreign Professor, Federal University of Amazonas, Department of Geography, Manaus, Brazil.

**1986-1990** - Teaching Assistant, Department of Geological Sciences, National University of San Luis, Argentina.

#### **FIELD EXPERIENCE (with published data or in preparation)**

United States of America, Argentina, Brazil, Bolivia, Paraguay, Guyana, Perú, Colombia, Venezuela, Malaysia, Myanmar.

**ADDITIONAL FIELD EXPERIENCE:** Laos, China, Congo, Chile, Spain, Italy, Russia, Japan, Australia, South Africa, India, Hungary, Poland.

#### **LANGUAGES**

Fluent in English, Spanish, Portuguese and Italian.

#### **HONORS /AWARDS/RECOGNITION**

- G.K. Gilbert Award for Excellence in Geomorphic Research, Association of American Geographers-AAG.
- Thomas W. Rivers Distinguished Professor in International Affairs, East Carolina University.
- Corresponding Member of the National Council of Research of Argentina-CONICET.

- Scientific Board of RCEM, Subcommittee on River, Coastal and Estuarine Morphodynamics, IAHR- The International Association for Hydro-Environment Engineering and Research.
- Scientific Board 9<sup>th</sup> International Conference on Geomorphology, International Association of Geomorphologists, New Delhi, 2017.
- Faculty Research Assignment, UT Austin (Sabbatical Research Fellowship), 2015.
- Member of the Scientific Committee, Argentinean Congress of Geomorphology and Quaternary, Argentinean Association of Quaternary and Geomorphology, Ushuaia, 2015
- Excellence in Peer Review, Journal of South American Earth Sciences, 2014
- Recognized Reviewer, Advances in Water Resources, 2014
- Member of the International Scientific Committee of the International Conference on the Status and Future of the World's large Rivers, Manaus, Brazil, 2014
- Referenced biography in "Who is Who in America".
- Award, International Prize Augusto Gonzalez de Linares offered to recognized centers or individuals of Spain and Latin America devoted to environmental studies, Spain, 2005.
- Elected Member of the Executive Committee of the International Association of Geomorphologists- IAG, 2001-2005.
- Referenced biography in "Who is Who in the World" Millennium Edition and others.
- Referenced biography in "Who is Who in Science and Engineering " Millennium Edition and others.
- Honored, Committee of the International Conference "The environment and the XXI Century", Central University of Las Villas, Santa Clara, Cuba, 2000.
- International Scientific Committee of the Yangtze River International Conference, East Normal University of China and IAG, Shanghai, China, 1999.
- Member of the Research Board of the Brazilian Union of Geomorphologist-1996-1998.
- Founder member of the Brazilian Union of Geomorphologists-UBG-1996.

## **PUBLICATIONS**

### **Books – Journals**

#### **Forthcoming (contract signed)**

**Latrubesse, E,** Abad, J. (Guest Editors). Geomorphology of Large Rivers, special issue in preparation *Geomorphology*

Wilkinson, J and **Latrubesse E** (Editors). *Megafans: a significant landform*. Cambridge University Press (contract signed, book under preparation)

#### **Published**

Stevaux, J. C. and **Latrubesse, E.** (2017). *Geomorfología fluvial*. Oficina de Textos Publisher, Brazil, 336p, Sao Paulo.

**Latrubesse, E.,** Wilkinson, J., Abad, J. (Guest Editors) (2014). Large rivers and megafans. *Sedimentary Geology*, 301 (91-184)

- Latrubesse, E.**, Stevaux, J.C. and Young, K. (Guest Editors). (2013). Abiotic controls in South American Riverine wetlands. *Journal of South American Earth Sciences*, 46, 110-198.
- Sinha, R., **Latrubesse, E.** and Nanson, G. (Guest Editors). (2012). The Quaternary of tropical and subtropical rivers. *Palaeogeography, Palaeoclimatology Palaeoecology*, 356-357, 108p.
- Vionnet C., Garcia, M., **Latrubesse, E.**, Perillo G. (2010). *RCEM 2009 River Coastal and Estuarine Morphodynamics, Vol. 1 and 2.*, CRC Press-Taylor Francis Group, Netherlands, 1079p
- Stevaux, J.C. and **Latrubesse, E.** (Guest Editors), (2010) Ambientes Fluviais, *Revista Brasileira de Geociências* 41(4).
- Latrubesse, E.** (2009) *Natural Hazards and Human-Exacerbated Disasters in Latin America*, Elsevier, UK, 510p.
- Latrubesse, E.**, Chen Z. and Stevaux, J.C. (Guest Editors) (2009). Short and long term processes, landforms and responses in large rivers, *Geomorphology*, Vol 113, Issues 3-4, 127-252.
- Latrubesse, E.** and Stevaux. (Guest Editors), (2009). Hydro-geomorphology, sediment transport and human impacts in large South American rivers. *Latin American Journal of Sedimentology and Basin analysis*, 16 (2), 77-131.
- Latrubesse, E.** (Guest Editor) (2006). Tropical Geomorphology with emphasis on South America, *Zeitschrift fur Geomorphologie*, 145, 241p.
- Latrubesse, E.** and Stevaux, J. 2006. Abiotic controls on Wetlands. *Geociencias-UnG*, São Paulo.
- Latrubesse, E.**, and Carvalho, T. (2006). *Geomorfologia do Estado de Goiás*. Secretaria de Ind e comercio, Superintendencia de Geología e Mineração do Estado de Goiás, 143p., Goiânia, Brasil.
- Latrubesse, E.** Stevaux, J.C., Sinha, R. (Guest Editors). (2005). Tropical Rivers, *Geomorphology*, 70, 219p.
- Stevaux, J. and **Latrubesse, E.** (Guest Editors). (2005). Geomorfologia Fluvial. *Revista Brasileira de Geomorfologia* 6(1)147p.
- Latrubesse E. M.** and Stevaux, J.C. (Editors). (2003) *International field conference AMAZON 2003- GLOCOPH-IGCP449*, Field Guide. CEGRAF, Federal University of Goias, 64p.
- Mossa, J., **Latrubesse, E.** and Gupta, A. (Guest Editors.)(2002). South and Central American Rivers. *Zeitschrift fur Geomorphologie*, 129, 140p.
- Latrubesse, E.** and Stevaux, J. (Guest Editors) (2000). Paleohydrology of South America, *Quaternary International*. Vol. 72, v. 1, 114 p.
- Latrubesse, E.** (Editor). (1999). Geomorphology and Paleohydrology of Large Rivers-*Boletim Goiano de Geografia*. 19. ed. Goiania: UFG-Cegraf, v. 1, 165 p.
- Latrubesse, E.** (Editor). (1996). *Paleo and Neoclimates of Southwestern Amazonia IGPC 341/UNESCO Project: Southern Hemisphere Paleo And Neoclimates*. Rio Branco: Universidade Federal do Acre-UFAC, 89 p.
- Franzinelli, E. and **Latrubesse, E.** (Eds.) (1993). *International Symposium on the Quaternary of the Amazon*. Meeting IGPC-281/UNESCO – Abstracts and Scientific Contributions. Manaus, 185 p.

## Peer reviewed publications

### **Forthcoming (submission expected within 4-12 months)**

- Latrubesse, E.** (in preparation-invited paper by the Editors). Anabranching patterns: the kingdom large alluvial rivers. under preparation for *Geomorphology*
- Latrubesse, E.** (in preparation-invited paper by the Editors). Source to Sink and the Human Factor in Large Fluvial Systems: The Case of South America, *Earth Science Reviews*.
- Latrubesse, E., Stevaux, J.C. Horton, B. Silva-Caminha, S and L. Jackson.** Reconstruction of Large Rivers connections and basin reorganizations in the Amazon basin: the Japura/Caquetá-Negro interlink. Under preparation for *Earth and Planetary Science Letters* or equivalent journal.
- Latrubesse, E. Ramonell, C.** A floodplain evolution model for a megariver: the Parana River, Argentina. Under preparation for *Geomorphology*.
- Latrubese, E.** The Last Glacial in the Amazon. Under preparation for *Quaternary Science Reviews or Earth Science Reviews*.
- Latrubesse, Wight, Ch, Park, E., Stevaux, J.C. Filizola, N.** Environmental Impacts of the Madeira River Hydroelectric Complex (MRHC) in Brazil. Under preparation for *Environmental Science & Policy* or equivalent journal
- Latrubesse, E., Stevaux, J.C., Bezada, E., Merino E., Gonzales, O.** Sand dunes and the Last Glacial-Holocene paleoenvironments of the Orinoco Llanos (Venezuela-Colombia): when aridity matters. Under preparation for *Quaternary Science Reviews or Quaternary Research*
- Latrubesse, E., Baker, P., Fritz, S., Dick, C.** Why not Lake Pebas? The Late Miocene Amazon paleogeography and its relevance for stratigraphy, paleoenvironmental and ecological reconstructions. Under preparation for *Nature Geosciences or Biogeography*
- Knox, R., **Latrubesse, E.** Changes in recent effective discharge and geomorphology near the Old River Control Structure on the lower Mississippi River, *Geomorphology*

### **Submitted**

Park, E. and **Latrubesse. E.** The Amazon River rating curve at Obidos revisited incorporating channel-floodplain interrelated processes. *Water Resources Research*

### **Published**

- Latrubesse, E., Arima E. Dunne T., Park E., Baker V, Horta F., Wight, C., Wittmann F., Zuanon, J., Baker P., Ribas C, Norgaard R., Filizola N., Ansar A., Flyvbjerg B., Stevaux, J.** (2017). Damming the rivers of the Amazon basin. *Nature*, 546, 363-369.
- Park, E. and **Latrubesse, E.** (2017). High resolution mapping of flood routing patterns and hydrological connectivity in the middle Amazon River floodplain. *Remote Sensing of the Environment* 198, 321-332.
- Dapolito, C, Absy, M. L, **Latrubesse, E.** (2017). Vegetation cycle reveals novel plant migration pattern in lowland glacial Amazonia. *Quaternary Science Reviews*, 169,1-12.
- Dapolito, C., Latrubesse, E., Absy, M. L. (2017). Results confirm a relatively dry setting during

- the last glacial (MIS 3 and LGM) in Carajás, Amazonia: a comment on Guimarães et al. *The Holocene* <https://doi.org/10.1177/095968361772133>
- Knox, R., **Latrubesse, E.** (2016). A geomorphologic approach to the analysis of bed load and bed morphology of the lower Mississippi River near the Old River Control Structure, *Geomorphology* 268, 35-47.
- Lininger, K., and **Latrubesse, E.** (2016) Flooding hydrology and peak discharge attenuation along the middle Araguaia River in central Brazil. *Catena*, 143, 90-101.
- Restrepo, J., Park, E., Aquino, S., **Latrubesse, E.** (2016). Coral reefs chronically exposed to river sediment plumes in the southwestern Caribbean: Rosario Islands, Colombia *Science of the Total Environment* (553), 316-329
- Latrubesse, E.** (2015) Quaternary megafans, large rivers and other avulsive fluvial systems: a potential "who is who" in the geological record. *Earth Science Reviews* 146, 1-30.
- Park, E., **Latrubesse, E.** (2015). Surface water types and sediment distribution patterns at the confluence of mega rivers: the Solimões-Amazon and Negro rivers junction. *Water Resources Research*, 51 (8), 6197-6213, doi:10.1002/2014WR016757.
- Matos, M., Borges, S., d'Horta, F., Cornelius, C., **Latrubesse, E.**, Cohn-Haft, M., Ribas, C. (2015). Comparative phylogeography of two white sand bird species highlights a dynamic landscape history in Amazonia during the Quaternary. *Biotropica*
- Baker, P., Fritz, S., Rigsby, C and others, including **Latrubesse, E.** (2015). Trans-Amazon Drilling Project (TADP): origins and evolution of the forests, climate, and hydrology of the South American tropics. *Scientific Drilling*, 20, 41-49.
- Feitosa, Y.O., Absy, M. L., **Latrubesse, E.**, Stevaux, J.C, (2015) Late Quaternary vegetation dynamics from central parts of the Madeira River in Brazil. *Acta Botanica Brasílica*, 29(1): 120-128.
- Latrubesse, E** and Park, E. (2015). Rivers and streams. In: R. Marston and S. Luzzadder-Beach (Eds) *The International Encyclopedia of Geography: People, the Earth, Environment, and Technology- Physical Geography*, Wiley.
- Latrubesse, E.** and Stevaux, J.C. (2015). The Anavilhanas and Mariua Archipelagos: fluvial wonders from the Negro River, Amazon basin In: Vieira, B. and Salgado, A., (Eds.), *Geomorphological Landscapes of the World- Regional Series- Landscapes of Brazil*, Springer, 157-169.
- Latrubesse, E.**, Restrepo, J. (2014). Sediment yield along the Andes: continental budget, regional variations and comparisons with other basins from orogenic mountain belts. *Geomorphology*, 216, 225-233.
- Park, E. **Latrubesse, E.** (2014) Modelling suspended sediment distribution patterns of the Amazon river using MODIS data. *Remote Sensing of Environment* 147, 232-242.
- Latrubesse, E.**, Wilkinson J., Abad, J. (2014). Large Rivers and Megafans, *Sedimentary Geology*. 301, 91-92.
- Filizola, N., **Latrubesse, E.**, Fraizy, P., Souza R., Guimarães V., Guyot, J.L. (2014). Was the 2009 flood the most hazardous or the largest ever recorded in the Amazon? *Geomorphology*, 215, 99-105
- D'Apolito, C., Absy, M. L., **Latrubesse, E.** (2013). The Hill of Six Lakes revisited: new data and re-evaluation of a key Pleistocene Amazon site. *Quaternary Science Reviews*, 76, 140-155.
- Latrubesse, E.**, Stevaux, J.C., Young, K., (2013). Hydro-geomorphologic processes and Quaternary landforms controlling biotic components in South American wetlands: Introduction. *Journal of South American Earth Sciences*, 46, 110-112.

- Montero, J.C., **Latrubesse, E.** (2013). The igapó of the Negro River in central Amazonia: linking late-successional inundation forest with fluvial geomorphology. *Journal of South American Earth Sciences*, 46, 137-149.
- Marchetti, Z., **Latrubesse, E.**, Pereira, S., Ramonell, C.G. (2013). Vegetation and its relationship with geomorphologic units in the Parana River floodplain, Argentina. *Journal of South American Earth Sciences*, 46, 122-136.
- Valente, C., **Latrubesse, E.**, Ferreira, L. (2013). Relationships among vegetation, geomorphology and hydrology in the Bananal island tropical wetlands, Araguaia River Basin, Central Brazil. *Journal of South American Earth Sciences*, 46, 150-160
- Ferreira, M., Ferreira, L., Latrubesse, E., Miziara, F. and Soares Filho, B. (2013). Considerations about the land use and conversion trends in the savanna environments of Central Brazil under a geomorphological perspective. *Journal of Land Use Science*. DOI:10.1080/1747423X.2012.675363
- Sinha, R. **Latrubesse, E.**, Nanson, G. (2012) Quaternary fluvial systems of tropics: major issues and status of research. *Paleogeography, Palaeoclimatology Palaeoecology*. 356, 1-15.
- Latrubesse, E.**, Stevaux, J.C., Cremon, S., May J, Tatumi, M Hurtado, M., Argollo, J., Bezada, M. (2012). Late Quaternary megafans, fans and fluvio-aeolian interactions in the Bolivian Chaco, Tropical South America. *Paleogeography, Palaeoclimatology Palaeoecology*. 356, 75-88
- Valente, C. and **Latrubesse, E.** (2012). Fluvial archive of peculiar avulsive fluvial patterns in the largest intracratonic basin of tropical South America: the Bananal basin, Central Brazil. *Paleogeography, Palaeoclimatology Palaeoecology*. 356, 62-74.
- Latrubesse, E.** (2012). Amazon Lakes. In *Lakes and Reservoirs*. Bengtsson, L., Herschy, R. and Fairbridge, R. (Eds). Springer Verlag, 13-26.
- Coe, M., **Latrubesse, E.**, Ferreira, M., Amsler, M. (2011). The effect of deforestation and climate variability on the stream flow of the Araguaia River. *Biogeochemistry* 105 (1-3), 119–131
- Latrubesse, E.**, Cozzuol, M., Rigsby, C., Silva, S., Absy, M.L., Jaramillo, C. (2010). The Late Miocene paleogeography of the Amazon basin and the evolution of the Amazon River. *Earth Science Reviews*, 99 (3), 99-124.
- Carvalho, T.M. **Latrubesse, E.** (2010). Aplicação de modelos digitais do terreno (MDT) em análises macrogeomorfológicas: o caso da bacia hidrográfica do Araguaia. *Revista Brasileira de Geomorfologia*, 5 (1) 85-93.
- Cafaro, E., **Latrubesse, E.**, Ramonell, C., Montagnini, M.D. (2010). Channel pattern arrangement along Quaternary fans and mega-fans of the Chaco plain, central South America. In: C. Garcia, M., Latrubesse, E., Perillo G. (Eds). *RCEM 2009 River Coastal and Estuarine Morphodynamics*, Vol. 1 and 2., CRC Press-Taylor Francis Group, Netherlands, 1-349-354.
- Fontes, L.C., **Latrubesse, E.**, Holanda, F.S., Aquino, S. (2010). Major Hydrological Changes and Bank Erosion in the Lower São Francisco River, Brazil, as a consequence of dams. In: C. Garcia, M., Latrubesse, E., Perillo G. (Eds). *RCEM 2009 River Coastal and Estuarine Morphodynamics*, Vol. 1 and 2., CRC Press-Taylor Francis Group, Netherlands, 131-136.
- Stevaux, J.C. and **Latrubesse, E.** (2010). Iguazu falls: a history of differential fluvial incision In: P. Migon (editor). *Geomorphological Landscapes of the World*, Springer Verlag, 101-109.

- Latrubesse, E.** and Stevaux, J.C. (2009). Hydro-geomorphology, sediment transport and human impacts in large South American rivers. Preface. *Latin American Journal of Sedimentology and Basin Analysis*, 16 (2), 77-78.
- Latrubesse E.**, Amsler, M., Morais, R., Aquino, S. (2009). The Geomorphologic response of a large pristine alluvial river to tremendous deforestation in the South American tropics: the case of the Araguaia River. *Geomorphology*, 113 (3), 239-252.
- Aquino, S., **Latrubesse, E.**, Bayer, M. (2009). Assessment of wash load transport in the Araguaia River (Aruana gauge station), Central Brazil. *Latin American Journal of Sedimentology and Basin Analysis*, 16 (2), 119-128.
- Aquino, S., **Latrubesse, E.**, Souza Filho, E. (2009). Caracterização hidrológica e geomorfológica dos afluentes da bacia do Rio Araguaia, Brasil. *Revista Brasileira de Geomorfologia*. 10 (1), 43-54.
- Latrubesse, E., Chen, Z., Stevaux, J.C (2009). Preface to the special volume short and long term processes, landforms and responses in large rivers. *Geomorphology* 113 (3), 127-128.
- García, N.O., Ferreira, R. and **Latrubesse, E.** (2009). Climate and Geomorphologic disasters in Latin America In: E. Latrubesse, (Editor), *Geomorphology of Natural Hazards and Human Exacerbated Disasters in Latin America*, Developments in Earth Surface Processes , Elsevier, 1-27.
- Latrubesse, E.** (2009) A Latin American perspective of geomorphologic disasters. In: E. Latrubesse, (Editor), *Geomorphology of Natural Hazards and Human Exacerbated Disasters in Latin America*, Developments in Earth Surface Processes, Elsevier, (13) 445-448.
- Stevaux, J.C. **Latrubesse, E.**, Hermann, L. and Aquino, S. (2009). Floods in urban areas of Brazil. In: E. Latrubesse, (Editor), *Geomorphology of Natural Hazards and Human Exacerbated Disasters in Latin America*, Developments in Earth Surface Processes, Elsevier, (13) 245-266.
- Latrubesse, E.**, Baker, P and Argollo J. (2009). Geomorphology of Natural Hazards and human induced disasters in Bolivia. In: E. Latrubesse, (Editor), *Geomorphology of Natural Hazards and Human Exacerbated Disasters in Latin America*, Developments in Earth Surface Processes, Elsevier, (13) 181-194.
- Latrubesse E.** and Brea, D. (2009). Floods in Argentina. In: E. Latrubesse, (Editor), *Geomorphology of Natural Hazards and Human Exacerbated Disasters in Latin America*, Developments in Earth Surface Processes, Elsevier (13), 333-349
- Latrubesse, E.** (2008). Patterns of Anabranching channels: the ultimate end-member adjustments of mega-rivers. *Geomorphology*, 101, 130-145.
- Morais, R.P., Aquino, S., **Latrubesse, E.** (2008). Controles hidrogeomorfológicos nas unidades vegetacionais da planície aluvial do rio Araguaia, Brasil. *Acta Scientiarum*, V.30 (4), 411-421.
- Ferreira, M.E., Ferreira, L.G., **Latrubesse, E.**, Miziara, F. (2008). High Resolution Remote Sensing based Quantification of the Remnant Vegetation Cover in the Araguaia River Basin, Central Brazil. Geoscience and Remote Sensing Symposium, 2008. *IGARSS 2008*. IEEE International Vol. 4, 739 - 741 Digital Object Identifier:10.1109/IGARSS.2008.4779828
- Aquino, S., **Latrubesse, E.** , Souza-Filho, E. (2008). Relações entre o regime hidrológico e os ecossistemas aquáticos da planície aluvial do Rio Araguaia. *Acta Scientiarum*, V.30 (4), 361-369



- Latrubesse, E.**, Silva, S.A. Cozzuol, M. Absy, M.L. (2007) Late Miocene continental sedimentation in southwestern Amazônia and its regional significance: biotic and geological evidences. *Journal of South American Earth Sciences*, 23 (1), 61-80.
- Latrubesse, E. Stevaux, J.** (2006). La red Cabah XIIC-Cyted-CNPq Controles abióticos de la vegetación en áreas de humedales: comparación y diagnóstico de la aplicación de métodos y técnicas de espacialización y monitoreamiento de unidades vegetacionales. *Geociências-UNG*, 7-14.
- Latrubesse, E.** and Stevaux, J.C. (2006). Características físico-bióticas e problemas ambientais asociados à planície aluvial do Rio Araguaia, Brasil central. *Geociências-UNG*, 5(1) 65-73
- Latrubesse E.** and Franzinelli, E. (2005). The late Quaternary evolution of the Negro River, Amazon, Brazil: implications for island and floodplain formation in large anabranching tropical systems. *Geomorphology*, 70 (3), 372-397.
- Aquino, S.** Stevaux, J. Latrubesse, E. (2005). Regime Hidrológico e aspectos do comportamento morfo-hidráulico do Rio Araguaia, Brasil. *Revista Brasileira de Geomorfologia*, 6 (2), 29-41.
- Morais, R.P., Oliveira, L.G., **Latrubesse, E.**, Pinheiros, R. (2005) Morfometria de sistemas lacustres da planície aluvial do médio rio Araguaia. *Acta Scientiarum* 27 (3), 203-213.
- Latrubesse, E.**, Stevaux, J.C., Sinha, R. (2005). Tropical Rivers. *Geomorphology*, 70, 187-206.
- Latrubesse, E.**, Stevaux, J.C., Sinha, R. (2005). Preface to the special volume on Tropical Rivers. *Geomorphology*, 70, 185-186.
- Latrubesse, E.**, Stevaux, J.C., Sinha, R. (2005). Grandes sistemas fluviais tropicais: uma visão geral. *Revista Brasileira de Geomorfologia* 6 (1), 1-18.
- Latrubesse, E.**, Stevaux, J.C., Santos, M. and Assine, M. (2005). Grandes sistemas fluviais: Geologia, Geomorfologia e Paleohidrologia. Chapter 13 in: (Souza, C. Suguio, K. and Oliveira, A., Oliveira, P., Eds.). *Quaternario do Brasil*, ABEQUA-Brazilian Association for Quaternary Studies, 276-297
- Carvalho, T. and **Latrubesse, E.** (2004). Mega-geomorfologia aplicada a estudos de grandes bacias fluviais: o caso do Rio Araguaia, Brasil. *Revista Brasileira de Geomorfologia*, 5(1), 165-173.
- Latrubesse, E.** (2003). The Late Quaternary paleohydrology of large South-American fluvial systems. In: Gregory, K; Benito, G. (Eds). *Palaeohydrology: understanding global change*. J. Wiley & Sons, 193-212.
- Latrubesse, E.** (2002). Evidence of Quaternary paleohydrological changes in middle Amazonia: the Aripuanã/Roosevelt and Jiparana fans. *Zeitschrift Fur Geomorphologie*, v. 129, 61-72.
- Latrubesse, E.** and Stevaux, J. (2002). Geomorphology and Environmental aspects of the Araguaia fluvial basin, Brazil. *Zeitschrift Fur Geomorphologie*, vol.129, 109-127.
- Latrubesse, E.** and Kalicki, T. (2002). Late Quaternary Paleohydrological changes in the upper Purus basin, southwester Amazonia, Brazil. *Zeitschrift Fur Geomorphologie*, v. 129, 41-59.
- Cendrero, A.**, Frances, E., Latrubesse, E., Prado, R., Fabri, A., Panizza, M, and others (2002). Projeto RELESA/ELANEM: Uma nova proposta metodológica de índices e indicadores para a avaliação da qualidade ambiental. *Revista Brasileira de Geomorfologia*, Rio de Janeiro, 3(1) 33-47.
- Latrubesse, E.** and Franzinelli, E. (2002). The Holocene alluvial plain of the Middle Amazon River, Brazil. *Geomorphology*, 44 (3), 241-257.

- Latrubesse, E.** and Nelson, B. (2001) Evidence for Late Quaternary Aeolian Activity in the Roraima-Guyana Region. *Catena*, 43 (1), 63-80.
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- Tristão, G. and **Latrubesse, E.** (2001). Análise hidro-sedimentar dos sistemas lacustres da planície aluvial do rio Araguaia. Simpósio Nacional de Geografia Física Aplicada. Recife, Brazil.
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- Latrubesse, E.**, Link, O. and Degiovanni, S. (2000). Geoindicadores Fluviais: alguma considerações metodológicas.II SINAGEO, simpósio Nacional de Geomorfologia, Campinas, Brazil.
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- Latrubesse, E.** and Franzinelli, E. (1998). Holocene Sedimentation in the Central Part of the Amazon Alluvial Plain. Third International Meeting on Global Continental Paleohydrology-GLOCOPH, Kumagaya, Japan p. 63-64.
- Latrubesse, E.** and Aquino, S. (1997). Parametros Geomorfológicos Fluviales Actuales y Estudios de Paleohidrologia en la Amazonia. VI Congresso de Abequa, Brazilian Association for Quaternary Research and first meeting on Quaternary of South America, Curitiba, Brazil, 449-450.
- Latrubesse, E.** and Franzinelli, E.(1997) Geomorfologia e Quaternario da Planicie Aluvial do Meio Amazonas. VI Congresso de Abequa, Brazilian Association for Quaternary Research and first meeting on Quaternary of South America, Curitiba, Brazil, p. 443-443.
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- Latrubesse, E.** (1997). Late Quaternary Mega-Fans in Middle Amazonia (Aripuana And Ji-Paraná Rivers), VI Congresso de Abequa, Brazilian Association for Quaternary Research and First meeting on Quaternary of South America, Curitiba, Brazil, p. 441-442.
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- Latrubesse, E.** and Franzinelli, E. (1996). Late Quaternary Paleohydrology of the Upper Rio Negro Basin, Amazonia Brazil. GLOCOPH Symposium- Paleohydrology and modeling of environmental change, Toledo, Spain, p62.
- Latrubesse, E.** (1995). Geologia e Paleontologia de Vertebrados Pleistocénicos da Amazônia Sul Ocidental: Considerações Paleoambientais. Congresso da Associação Brasileira de Estudos do Quaternário, Rio de Janeiro, Brazil.

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- Latrubesse, E.** and Rancy, A. (1995). Late Quaternary Alluvial Sediments and Vertebrate Paleontology as Indicators of Aridity in Southwestern Amazonia. XIV INQUA Congress, Berlin Germany, p226.
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- Franzinelli, E. and **Latrubesse, E.** (1992) The Use Remote Sensing in a Neotectonic Study in the Amazon Basin. XVII Congress ISPRS, Washington, USA.
- Latrubesse, E.** and Ramonell C. (1991)."O Quaternário do Estado do Acre" 3º. Congresso ABEQUA. Publ. Especial No. 1. Resumos. 61-63, Belo Horizonte.
- Latrubesse, E.** and Franzinelli E. (1991)."Quaternario e Neotectonica na Zona de confluência Rio Negro - Rio Solimões", 3o. Congresso ABEQUA, Publ. Especial Nº 1. Resumos: 64-65. Belo Horizonte.
- Latrubesse, E.,** and Ramonell C. (1991). "Geological record of the Little Ice Age in the Pampean region, Argentina", XIII INQUA. Congress, Abstracts, Beijing.

- Latrubesse, E.**, and Ramonell, C. (1991). "Quaternary History of Western Amazonia". XIII INQUA Congress, Abstracts, Beijing.
- Ramonell C. and **Latrubesse, E.** (1991). "The Austral Paleodesert of San Luis, Argentina". XIII INQUA Congress, Abstracts, Beijing.
- Latrubesse, E.** Franzinelli, E., Colinvaux, P., Miller, M., Bush, M., de Oliveira, P. (1991). "Novas considerações sobre o Quaternario da Bacia do Alto Rio Negro (Estado do Amazonas)". Anais do III Simp. de Geologia da Amazônia, Belém.
- Ramonell C., **Latrubesse, E.**, Bocquentin, J. C., Rancy, A., Souza Filho, L., Negri, R. (1991). "Novas perspectivas sobre a idade da Formação Solimões no Estado do Acre" Anais do XIII Simp. de Geologia da Amazônia, Belém.

### **Technical reports**

More than 20 major technical reports for a variety of agencies such as Geological Survey of Brazil-CPRM, Goiás State Geological Survey-Brazil, IBAMA-Ministry of the Environment-Brazil,

### **Other papers for dissemination**

- Latrubesse, E. (2015).** Geoclimatic Hazards and Environmental Disasters in Latin America: Human Dimensions and Future Challenges, PORTAL Magazine, LLILAS-BENSON, UT, 8-11.
- Abad, J., Montoro, H and **Latrubesse, E.** (2012) TROPICAL RIVERS 2012: IGCP Annual Symposium, August 8 to August 12 of 2012, Eos, American Geophysical Union.
- Latrubesse, E.** 2002. An Integrated Program for the Araguaia Basin Brazil. RBI News, RAMSAR, 6-7, Kuala Lumpur, Malaysia.

### **GRANTS**

#### **FUNDED RESEARCH GRANTS**

- Trans Amazon Drilling Project (TADP) (co-Pi). Origins and evolution of the forest, climate and hydrology of the South American Tropics. International Continental Drilling Program. \$1.5 million.
- Southeast Asian rivers: Assessment and Modelling of Sediment transport in the Irrawaddy and Sarawak Rivers. Earth Observatory of Singapore-EOS-NTU (PI), \$127,000.
- National Geographic Society.-(PI)-The Pampean desert: reconstructing the largest Quaternary sand sea in South America. \$19,900
- NSF - DDRI- (PI)-1558446. Roles of Tributaries, Floodplains, and the Anabranching Channels on Suspended Sediment Transport Patterns in the Amazon River.\$14,687
- Mellon Travel Grant-LLILAS. (PI) Environmental reconstruction of the Pampean desert with emphasis on the Medieval Warm Period, the Little Ice Age and the post-independence human triggered desertification. \$3000.
- NSF- CNH-RCN (Senior Personnel). Amazon Dams Network: Advancing Integrative

Research and Adaptive Management of Social-ecological Systems Transformed by Hydroelectric Dams. \$499,818

- Faculty Research Assignments (FRAs), UT-Austin, The Amazon: from Late Cenozoic paleogeography to recent morphodynamics. \$54,000
- National Science Foundation (Co-PI) -NSF-FESD Type I: The Dynamics of Mountains, Landscapes and Climate in the Distribution and Generation of Biodiversity of the Amazon/Andean rainforest. 2013-2-17. Total budget \$4.5 million. Latrubesse's budget: \$340,000
- National Council of Brazil-CNPq-CAPES- Without Frontiers Program- (Foreign Co-PI)- Deciphering morphogenetic mechanisms in mega-rivers: the role of the Brazilian systems in the new fluvial geomorphologic paradigms. 2012-2015- \$260,000
- Co-PI- Environmental base line Argos Bauru & corporative review of ecosystem services, Colombian Caribbean coast, 2013-2014 (Total budget \$2,000,000 administrated by EAFIT and ECORAL-Colombia, Latrubesse's budget ~\$40,000)
- UT-LabSpace Program, Improvements to the Environmental Change Laboratory, space Environmental change Lab; 2014, \$7000
- LLILAS-UT, Grant, Argentinean Studies Committee, 2013. \$2000
- UT-LabSpace Program, Improvements to the Environmental Change Laboratory, space Environmental change Lab; 2012, \$9350
- National Science Foundation. (PI) - Morphodynamics of an Amazon megariver facing disruption: The Madeira. \$100,000, 2012-2013
- Small Grants Program, Office of Research, Univ. of Pittsburgh (Co-Pi)- Morphodynamics of the Madeira River: a crucial Amazonian anabranching megariver facing imminent disruption, 2012-2013; \$16,000.
- Mellon Research Travel Grant, LLILAS, UT Austin - Gold mining in the Madre de Dios basin, Peru: geomorphologic changes and social conflicts in the most impacted area by mining in the whole Amazon basin, 2012, \$4,500
- National Geographic Society. (PI) - Exploring a soon to be lost Amazon world: a geomorphologic, paleontologic and geo-archaeologic expedition to the Madeira River, 2011. \$19,900
- Mellon Research Travel Grant, LLILAS, UT Austin - Was the 2009 the largest or the most hazardous flood recorded in the Amazon basin? Peculiarities of a complex system 2010-2011. \$4,884
- University of Texas-Liberal Arts-Department of Geography and the environment 2009-2011. \$150,000
- College of Engineering, university of El Litoral- FICH-UNL, Argentina. Co-PI- Assessment of changes and sedimentation of the Parana Rivers near Santa Fe: implications for the territorial development. 2011 – 2013. \$ 13,450.
- Secretary of Science and Innovation, Santa Fe State, Argentina. Co-PI. Assesment of hydrogeomorphologic processes of the Parana River between Arroyo Leyes and Santa Fe –Paraná. 2010 – 2012. \$ 6850.

- FICH-UNL, Argentina. Co-Pi. Analysis of the constructional processes in a large alluvial river: The middle Parana. 2009 – 2012. \$8000.
- Mellon Research Travel Grant, LLILAS, UT Austin - Hyper-avulsive rivers in the Chaco plain and strategies for river management (2009-2010). \$ 4925
- CNPq 482545/2007-0. (PI) - Hydro-physics impacts induced by human action (direct and indirect) and by climatic changes in large Brazilian Rivers: The extreme cases of Rio Araguaia and Rio Parana-ARPA. 2008-2009. \$ 87,000
- Pro-Sul Network CNPq 490602/2007-0-I. Chair of the Argentinean Team (UNLP) in the research Network - Hydro-physic response to Global Change in large rivers of South America: Parana, Paraguay, Orinoco and Magdalena Rivers (Brazil, Argentina, Colombia and Venezuela). 2007-2010. \$ 60,000.
- NASA-USA, Earth Science Enterprises, 2700-0087. (Brazil PI) - Land use Impacts on the Water Resources of the Cerrado Biome. In collaboration with Woods Hole Research Center, University of Stanford, University of Goias (Brazil) and University of Brasilia (Brazil). 2006-2008. Latrubesse's team: ~\$ 70,000
- Fundação de Amparo a Pesquisa do Estado de Sao Paulo-FAPESP, Brazil. Visiting Foreign Scientist. University of Guarulhos-UnG - Master degree program in Geo-environmental Analysis. June 1<sup>st</sup> to July 31, 2008. \$ 12,000.
- PI-Head- Program of Science and Technology for the Development in Ibero-American countries CYTED - Abiotic Control of wetlands: comparison and assessment of methods and techniques of mapping and monitoring of vegetation units-CABAH network. 2003-2007. \$ 155,000.
- FEMA-Goiás, Brazil. (PI) - Quantification of the erosion and deposition processes in the middle Araguaia alluvial plain, Brazil. 2003-2004. \$15,000
- CT-INFRA-FINEP - phases 1 and 2. Acquisition of an acoustic doppler ADCP Rio Grande, a geodesic DGPS, a video-system for microscopy, automatic data logging station. (2003-2004). \$ 72,000.
- European Commission, INCO Program. Chair of the Brazilian team. Quantitative indicators and indices of environmental quality; Euro-Latin American Network for Environmental Assessment and Monitoring (ELANEM)-INCO Program. Universities: Baja California (Mexico); Central de Las Villas (Cuba); Federal of Goias (Brasil); National of Río Cuarto, National of La Plata (Argentina); Concepción (Chile); ITC (Netherland); Cantabria (Spain); Modena and Reggio-Emilia (Italy). 1999-2003. Total project amount: Euros 810,000. Latrubesse's team amount: US\$ 83,000.
- CNPq-Brazil (PI) - Present day morpho-dynamic and Quaternary evolution of the Araguaia Alluvial plain: its environmental implications - Brazil. Duration: 2000 – 2002. \$ 24,000
- VITAE Foundation. (PI). - Risks associated to thalweg shift in the Araguaia (Brazil) and Parana (Argentina) rivers: its importance for fluvial engineering and bi-national programs of integration. Participants: Researchers from Federal University of Goias, of Maringá (Brazil) and National del Litoral-Santa Fé (Argentina). Duration: 2000-2001. \$ 18,000.
- CNPq- (PI) Morphodynamics and Quaternary evolution of the Araguaia alluvial plain: environmental implications. 1999-2001. \$30,000

- UFAC- CNPq-PI Geomorphology and Quaternary of the Acre River floodplain. 95-97. \$26,000
- INQUA-International Union for Quaternary Research-Travel Grant. INQUA Congress Berlin, Germany, 1995. \$2500
- CNPq- 502721/91- Quaternary of the Rio Negro floodplain from Santa Isabel to the mouth: Geomorphology, stratigraphy, paleoecology and neotectonics. 1991-1993. \$25,000
- UFAM-CNPq. (PI) Fluvial dynamics of the Solimões River between Careiro and Paciencia islands. 1991-1993. \$12,000.
- UFAM- (PI) Geomorphology and Quaternary of the Rio Negro-Amazon confluence. 1992-1993. \$6000
- PID-CONICET 3-095100/88 and National Geographic Society (collaborator) Geomorphologic map of the South American plains.
- CONICET-Argentina-Graduate Research Fellowship Program. Project: Geomorphology and Quaternary of the Pilcomayo megafan (Bolivia, Paraguay and Argentina). 1990-1991. 15,000
- Antorchas Foundation Travel Grant. IGCP 281 Unesco Project meeting, Colombia. 1990. \$2000
- UNSL-Sc.& Tech. (Co-PI). Geomorphologic map of the San Luis Province, Argentina. 1989-1991 \$15,000
- UNSL-Sc. & Tech. Graduate Research Fellowship Program. Geomorphology and Quaternary of Saladillo region, San Luis province, Argentina. 1989-1990. \$14,000

#### **OTHER GRANTS AND PROJECTS OF RESEARCH WITH EXTERNAL FINANCIAL SUPPORT**

- Collaborator- HIESA-Spatial Hydrology of the Amazon, project, founded by FINEP-Brazil and managed by UFAM, Brazil. (\$900,000) (2011-2013)
- Consultant-Sao Francisco River, Brazil. Geological characterization of the continental shelf and the influence of fluvial sources in NE Brazil (SE and AL States), UFS-PETROBRAS- FAPESP. (2010-2011), \$1,200,000
- Consultant of the Project Modeling of hydro-geomorphologic processes and parameter to assess ecologic sustainable discharges in the São Francisco River, Brazil. CT Hydro-CNPQ. 2007-2009. \$350,000.
- Consultant to the project Dynamic of bed load in the Parana River and in the mouth of main tributaries, Brazil. CNPq-Brazilian Council of Research. \$20,000. (J.C.Stevaux-PI-University of Guarulhos-Brazil). 2006-2007.
- Consultant to the project Transmission of the impacting wave in the dynamics of flow and bed load of the Paraná River: model for management of large alluvial systems affected by dams, waterways and mining. FAPESP-Fundation of Research of São Paulo State, Brazil, \$35,000. (J.C. StevauX-PI- University of Guarulhos). 2006-2007.



**SPECIAL PARTICIPATION IN SCIENTIFIC MEETINGS (only included invited talks, chaired sessions and other special participations).**

- 9<sup>th</sup> IOC/WESTPAC International Workshop on fluvial Sediment Supply to the South China Sea, Bangkok, November 2016.
- Invited speaker, *T9-Developing Proxies for human impacts on soil and sediment mass transfer throughout the Holocene*. Geological Society of America-GSA, Baltimore, USA, 2015.
- Panelist, *Past and Present Environmental Science of the Neotropics and Beyond*, Association of American Geographers Annual Meeting, Chicago, April, 2015
- Invited speaker, *Trans-Amazon Drilling Workshop-International Correlation Drilling Program*, INPA, Manaus, March 2015
- Invited speaker and panelist *Global Brazil Conference*, Duke University, John Hope Franklin Humanities Institute, March, 2015.
- Invited panelist, *Human Rights and the Environment: interdisciplinary approaches- a transnational conference sponsored by the Ford Foundation*. Stanford University, October 2014.
- Discussant, *Amazonia Eterna* (film) PRAGDA film festival, UT-Austin, October 2014.
- Plenary lecture, LOTRED-SA 3<sup>rd</sup> Symposium: *Climate change and human impact in central and South America over the last 2000 years*, Medellin, Colombia, July, 2014.
- Discussant, book presentation, *In Search of the Amazon: Brazil, the United States and the Nature of a region* by Seth Garfield, LLILAS-UT-Austin, 2014.
- Chair/organizer, *Session 24-A Tropical Rivers, 8<sup>th</sup> International Symposium on Geomorphology*, International Association of Geomorphologists-IAG, Paris, August 2013.
- Invited researcher, *Catalysis workshop on The Role of Mountains, Climate, and Landscape in Generating Amazon/Andean Biodiversity*, National Evolutionary Synthesis Center (NESCent), NSF-Duke University, Durham NC, October, 2012.
- Invited talk, University of Pittsburgh Department of Civil and Environmental Engineering, October 2012.
- Invited speaker, *45 Brazilian Symposium on Geomorphology*, Rio de Janeiro, Brazil, October, 2012
- Invited speaker, *Argentinean Congress on Geomorphology and Quaternary*, Rio Cuarto, Argentina, October 2012.
- Invited speaker. *American Geophysical Union-AGU Fall Meeting*, Session 012, Large fans as mesoscale landforms, San Francisco, December, 2011.
- Chair/organizer, *Special session EP21B. Fluvial Morphodynamics, Channels Patterns, and Megafans* American Geophysical Union-AGU, Sao Francisco, 2011.
- Invited researcher. *Catalysis Meeting Earth surface processes in the evolution of mammalian tooth shape at The National Evolutionary Synthesis Center (NESCent) NSF-Duke University* (this meeting enclosed 20 specialists from different disciplines from USA, Europe and New Zealand). Durham, NC, April, 2011.
- Invited talk. *The future dark of the Brazilian Rivers, Brazil*, Brazilian Center-LLILAS, UT at Austin, April 2011.

- Invited speaker. *International Conference on the Status of the World's Large Rivers*, Vienna, Austria, April, 2011.
- Invited talk. *The Quaternary paleoecology and paleogeography of the Amazon basin*, Texas A&M, Department of Geography, March, 2011.
- Invited speaker. *AGU, San Francisco Fall 2010, USA, Large rivers morphodynamics session*, December 2010.
- Invited speaker (plenary talk). *45th Geological Congress on Geology, Belem, Brazil*, October, 2010).
- Invited speaker. *Binghamton Symposium on fluvial Geomorphology*, University of Texas-Austin, October 2008.
- Invited speaker, (Plenary lecture). *Geomorphology of large South American Rivers, VII SINAGEO, National Symposium on Geomorphology, and II Second Latin American Meeting of Geomorphology, Brazilian Union of Geomorphology-UGB*, Belo Horizonte, August, 2008.
- Invited speaker. *Seminar on Impact of the global climate change on Manaus and Rio Negro basin, Amazonia*. Socio-Environmental Institute-ISA, Manaus, March 2008.
- Invited speaker. *Paleohydrology of the Amazon basin, ABEQUA Congress, Brazilian Union of Quaternary Research*, Belem, Brazil, November 2007.
- Invites speaker. *Anabranching patterns: the ultimate fluvial response of channel adjustments in large rivers. International workshop Morphodynamic in large lowland rivers*, FICH/Argentina and NCESD-USA, Santa Fe, Argentina.
- Invited speaker. *The Amazon Basin Floodplains. Symposium on Geotechnologies applied to floodplain studies, PROVARZEA-IBAMA*, Manaus, July, 2008.
- Chair of the session Aeolian landforms, International Regional Conference on Geomorphology-International Association of Geomorphologists, Goiania, Brazil, September 2006.
- Chair of the Session Fluvial Geomorphology, International Regional Conference on Geomorphology-International Association of Geomorphologists, Goiania, Brazil, September 2006.
- Invited Researcher. IGCP Meeting 518 and 50<sup>0</sup> CHINQUA Congress, Nanking, China, October, 2006.
- Member of the plenary rounded Table. The Tropics: past present and future International Regional Conference on Geomorphology-IAG, Goiania, September, 2006.
- Chair of the session S2 Fluvial Systems, Land Degradation and River Management, International Symposium, COMLAND 2005, IUGS-International Commission on Land Degradation- Uberlandia, Brazil, May, 2005.
- Chair of the session The Late Cenozoic Fluvial Record, IGCP 449 Meeting, December 15-19, 2004, Málaga, Spain.
- Chair/organizer of the International Workshop on Late Cenozoic fluvial Sediments, IGCP 449. Latin-American Congress of Sedimentology, Belem do Para, June, 2003, Brazil.
- Chair of session GLOCOPH International Meeting on Global Continental Paleohydrology, December, 2002, Pune, India.

- Invited speaker, Plenary rounded table. Fluvial dynamic of the largest Brazilian rivers IV Simpósio Nacional de Geomorfologia, União da Geomorfologia Brasileira,-UGB, São Luiz de Marañón,Brazil. October 29 to November 11, 2002.
- Invited speaker, rounded table and member of the scientific committee. XVIII Congresso Brasileiro de Paleontologia, UFAC, Rio Branco, August, 2001.
- Member of the Scientific Committee. Simpósio Nacional de Controle de Erosão. ABGE, Goiânia, May 3 to 6, 2001.
- Chair/organizer. Symposium S6, Large Rivers, IAG-International Conference on Geomorphology, Tokyo, Japan. September 2001.
- Chair of session, Third International Meeting on Global Continental Paleohydrology-GLOCOPH' 98, Kumagaya, Japan, September, 1998.
- Chair/organizer of the First South-American Symposium on Paleohydrology during the VI Congress of the Brazilian Association of Quaternary Research. Curitiba, Brazil, July, 1997.
- Selected paper for oral presentation in the Tropical Geomorphology Session, IV International Conference on Geomorphology-IAG, Bologna, Italy, August, 1997.
- Brazilian National Delegate. Annual Meeting, Project IGCP 341, Southern Hemisphere Paleo and Neoclimates, Tarija, Bolívia, May, 1996.
- Invited speaker, rounded table on Geomorphologic Mapping, First Brazilian symposium on Geomorphology, November 1996, Uberlândia, Brazil.
- Chair of the session Paleohydrological techniques and approaches for understanding the global change. Second International Meeting on Global Continental Palaeohydrology, GLOCOPH-INQUA, Toledo, Spain, September, 1996.
- INQUA Congress, Berlin Germany, August, 1995. Winner of a grant offered by INQUA to young scientists.
- Brazilian National Delegate, Second meeting IGCP 341 "Southern Hemisphere Palaeo and Neoclimates", September, 1994, San Rafael, Argentina.
- Chair of the session Tropical Quaternary of South America, 5<sup>th</sup> Meeting IGCP 281 "Quaternary Climates of South América" November, 1993, Santiago de Chile.
- Argentinean National Delegate Second Meeting Project IGCP-Unesco 281 Quaternary Climates of South América. Medellín, Colombia May, 1990.
- Argentinean National Delegate, First Meeting Project IGCP-Unesco 281 Quaternary Climates of South América. La Paz, Bolivia. May 14, 1989.

## **GRADUATE STUDENT SUPERVISION**

In addition to UT support, grants for students were and still to be obtained through a variety of agencies such as Brazilian Council of Research-CNPq-Brazil, Brazilian agency for Graduate Programs-CAPES-Brazil, National Council of Research-CONICET-Argentina, NASA, European Union International Cooperation Program-INCO, among others. All the students listed below were supervised by Latrubesse.

### **Supervised Post-doctorate fellowships:**

- Edward Park, 2017-2018- Research Fellow- Earth Observatory of Singapore of Singapore EOS-Nanyang Technological University,

- Marchetti Zuleica, 2011-2013- Interactions among vegetation and morphodynamic processes in the Parana River floodplain, Argentina-Grant from CONICET- - Argentina.
- Aquino, Samia- 2007-2008. The Araguaia hydro-geomorphologic data-base. Grant of NASA-USA, Earth Science Enterprises, 2700-0087.

### **Supervised PhD Dissertations in Progress**

- Anwar Sounny-Slitine. 2013-ongoing. Worldwide Megafans: geomorphology and morphodynamic processes. UT Austin, Department of Geography and the Environment.
- Ramonell, Carlos. 2009-present. Quaternary Paleohydrology of the Parana River Floodplain, Argentina. Geological Sciences graduate program, Universidad Nacional de La Plata, Argentina.
- Landerlei A. Santos- 2013-ongoing. Quaternary aeolian record of NE Brazil: paleoclimates and paleoenvironments. UNESP- Brazil, Graduate Program in Geology.
- Natalia Payares-Peña, National University of the South-UNS, Geology, Argentina

### **Supervised PhD Dissertations Completed**

- Morais, Roberto Prado, 2006. PhD program in Environmental Sciences, Federal University of Goias, Brazil.
- Valente, Sidney. 2007. PhD program in Environmental Sciences, Federal University of Goias, Brazil.
- Degiovani, Susana. 2008. PhD program in Geology, National University of Rio Cuarto, Argentina.
- Bayer, Maximiliano. 2010. PhD program in Environmental Sciences, Federal University of Goias, Brazil.
- Pereira, Maria Soledad. 2016. PhD Program Geological Sciences, Universidad Nacional de La Plata, Argentina.
- Luiz Carlos Fontes. 2016. (Co-advised with J. C. Stevaux). UNESP- Environmental Geology, Brazil.
- Edward Park, 2017. University of Texas at Austin- dep. Geography and the Environment

### **Supervised Master Thesis completed**

- Xiwei Guo, UT Austin, Department of Geography and the Environment.
- Charles Wight. 2015. LLILAS, UT Austin.
- Landerlei A. Santos. 2015. UNESP- Geology, Brazil
- Vince Clause. 2014. UT Austin, Department of Geography and the Environment.
- Katherine Lininger-2013. UT Austin, Department of Geography and the Environment.
- Christine Bonthius. -2013. UT Austin, Department of Geography and the Environment.
- Richard Knox, 2013. UT-Austin Department of Geography and the Environment.
- Edward Park, 2013. UT Austin, Department of Geography and the Environment.
- Anwar Sounny-Slitine 2012. UT Austin, Department of Geography and the Environment.
- Tizuka Michelle, 2012. UNESP, Department of Geosciences, Rio Claro, Brazil.

- Carvalho, Thiago. 2006. M.Sc. program in Geography, Brazil.
- Bayer, Maximiliano. 2002. M.Sc. program in Geography, Brazil.
- Vieira, Pedro Alves. 2002. M.Sc. program in Geography, Brazil.
- Silva, Jakeline. 2002. Federal University of Goiás, M.Sc. program in Geography, Brazil.
- Moraes, Roberto Prado de. 2001. Federal University of Goiás, M.Sc. Geography Program, Brazil.
- Guedes, Helio. 2000.. Federal University of Acre, MSc Ecology program, Brazil.
- Lima, Maria. S. 1998. Co-advisor, Federal University of Santa Catarina, Brazil, MsC. Geography Program, Brazil.

#### **Supervised Granted Graduated technicians**

- Gonçalves, Kenya. 2002-2003. Technician of the Laboratory of Geology and Physical Geography-LABOGEF- Federal University of Goiás, Brazil. CNPq-Brazil.
- Olazar, Leandra. 2000-2001. Technician of the Laboratory of Geology and Physical Geography-LABOGEF- Federal University of Goiás, Brazil. CNPq-Brazil,

#### **Supervised Undergraduate Honors (completed)**

- Rifle, Lauren A. 2012. Department of Geography and the Environment, UT, Austin.
- Tristão, Gisela Martins. 2002. Department of Geography, IESA, Federal University of Goiás.
- Franca, Andrea. 2001. Department of Geography, IESA, Federal University of Goiás.
- Moraes, Roberto Prado. 1999. Department of Geography, IESA, Federal University of Goiás.
- Aquino, Samia. 1997. Department of Geography, Federal University of Acre, Brazil.
- Cruz, Catia Cilene Santos. 1997. Department of Geography, Federal University of Acre, Brazil.
- Silva, Marcos Soares. 1996. Department of Geography, Federal University of Acre, Brazil.

#### **Supervised Undergraduate Scholarships, Research Assistants and Internships**

- Lim Shu Xian Jana, Spring 2017, NTU-ASE, Singapore, Research Assistant
- Cody Bjornson. Fall 2015, LLILAS, UT-Austin, Internship research program
- Colton Harrison. Fall 2015, LLILAS, UT-Austin, Internship research program
- Alyssa Kuklinski. Fall 2015, LLILAS, UT-Austin, Internship research program
- Sophia Ong. Fall 2015, LLILAS, UT-Austin, Internship research program
- Kira Holland. Fall 2015, LLILAS, UT-Austin, Internship research program
- Kristen Jurica. Fall 2015, LLILAS, UT-Austin, Internship research program
- Kendall Shae Kovar . Fall 2015, LLILAS, UT-Austin, Internship research program
- Kelsey Leneave – 2014-2015, LLILAS, UT-Austin, Internship research program
- Karl Kuhlman. 2014-2015, LLILAS, UT-Austin, Internship research program
- Morgan Faulkner, Fall 2014, LLILAS, UT-Austin, Internship research program
- Tansy Stobart, Fall 2014, LLILAS, UT-Austin, Internship research program
- Sara Cabral - Fall 2014, LLILAS, UT-Austin, Internship research program

- Andrew Yang Fall 2014, LLILAS, UT-Austin, Internship research program
- Randall Helmcamp, Spring 2013, LLILAS, UT-Austin, Internship research program
- Wright, Charles. 2011. Special studies, Department of Geography, UT, Austin.
- Clause, Vince. 2011. LLILAS UT-Austin, Internship research program..
- Riddle, Katherine. 2011. LLILAS, UT-Austin Internship research program.
- Rife, Lauren. 2010. LLILAS, UT-Austin, Internship research program.
- Lacerda, Clarise. 2003-2004. Grant National Council of Research-CNPq. Federal University of Goias.
- Lesa, Alyne. 2003-2004. Grant of the National Council of Research-CNPq. Federal University of Goias.
- Correia, Manuel R.C. 2003. Scholarship Granted by the National Council of Research-CNPq. Federal University of Goias.
- Tristão, Gisela Martins. 2002. Scholarship Granted by the National Council of Research-CNPq.
- Araujo, Flaudio Ramos. 2000-2002. Scholarship Granted by the National Council of Research-CNPq. Federal University of Goias.
- Franca, Andrea. 1999-2001. Scholarship Granted by the National Council of Research-CNPq.
- Moraes, Roberto Prado. 1999. IESA-Environmental Institute, Federal University of Goias.
- Aquino, Samia. 1996-1997 - Scholarship Granted by the National Council of Research-CNPq. Federal University of Acre.
- Cruz, Catia Cilene Santos. 1995-1997. Scholarship Granted by the National Council of Research-CNPq.
- Silva, Marcos Soares. 1994-1996. Scholarship Granted by the National Council of Research-CNPq.
- Fortes, Mircia Ribeiro. 1992-1993. Scholarship Granted by the National Council of Research CNPq.

#### **Advising of Foreign Graduated Visiting Students and Internships**

- Eder Marino PhD student UNESP, Brazil, granted by CAPES (September 1<sup>st</sup> 2014 to March 1<sup>st</sup>, 2015), Geomorphology of the Mato Grosso Pantanal
- Isabel Teresinha Leli, PhD student UNESP, Brazil, granted by CAPES (January 15 to July 31<sup>st</sup>, 2014), Geomorphology and Quaternary evolution of the Parana river floodplain.
- Luiz Carlos Fontes, PhD student UNESP, Brazil, granted by CAPES (September to December 2013), Fluvial geomorphology of the Sao Francisco River.
- André L. Souza Celarino, PhD student of UNICAMP, Brazil, granted by FAPESP (September 2012 to March 2013), Fluvial geomorphology of central Brazil rivers,
- Alana Bacon, PhD student of Duke University (April 2010 and April 2011), Geomorphology of Peruvian Amazon.
- Andrea Cavalcante, PhD student of University Fluminense-Rio de Janeiro, granted by CAPES-Brazil to spend 8 months working under my supervision on river management and hazards in North Eastern Brazil (fall 2010 and spring semester 2011).

- Edgardo Cafaro, PhD student of CONICET, Argentina visiting scholar. Chaco Rivers morphodynamics and megafans, January 2010.
- Orlando Gonzales, PhD student from University El Libertador-Venezuela, on Plain Geomorphology and fluvio-aeolian interactions, 2006.
- Alina Crincoli, Master degree student from National University of La Plata-Argentina, to Federal University of Goias, on Plain Geomorphology and aeolian processes, 2006.
- Mirta Cabral, from National University of La Plata-Argentina to Federal University of Goias- Brazil, on Floods hazards, 2003.
- Susana Degiovani, from National University of Rio Cuarto-Argentina, on Fluvial Indicators 2004.
- Oscar Link, from Concepción University - Chile, to Federal University of Goias, on fluvial geomorphology and sediment transport, 1999.
- Marcelo Sorba, from National University of San Luis, to Federal University of Acre, on tropical geomorphology,.
- Vicente Sanchez, from National University of San Luis, to Federal University of Acre, on tropical geomorphology, 1996.
- Arturo Aberastain, from National University of San Luis, to Federal University of Acre, on tropical geomorphology, 1996.

**Member of Graduate Committee (I just listed activities developed since I am a UT professor (2009-current). Previous activities are not included)**

- Thomas Capaldi, PhD, Jackson, School of Geosciences, UT-Austin.
- Swati Sinha PhD, Indian Institute of Technology-Kanpur, Department of Earth Sciences.
- Vanessa C. Santos, 2014, PhD Environmental Geology Program, UNESP, Brazil (Comp)
- Isabel; T. Lelli, 2014, PhD Environmental Geology Program, UNESP, Brazil (Comp)
- Swati Sinha, 2014. PhD, Indian Institute of Technology-Kanpur, Department of Earth Sciences.
- Justin E. Laue, 2014. Department of Geography and the Environment, UT-Austin.
- Lahiri, Siddhartha Kumar. PhD, Indian Institute of Technology-Kanpur, Department of Civil Engineering, 2012
- Leitch, Maraigh. 2011. MsC in Geography, Department of Geography and the Environment, UT-Austin.
- Gonzales, O. 2011. PhD in Geology, Universidad Central de Venezuela (ongoing).
- Roy, Nanigopal. 2010. PhD in Geosciences- Indian Institute of Technology-Kanpur, India.

**ADMINISTRATIVE AND COMMITTEE AND PROFESSIONAL PUBLIC SERVICE**

**ORGANIZATION OF SCIENTIFIC MEETINGS**

- Organizer, Session S28. Tropical Rivers 9<sup>th</sup> International conference on Geomorphology, Int.Association of Geomorphologists, IAG, New Delhi, 2017.

- Co-organizer Session EP Fluvial morphodynamics, Channels Patterns and beyond, American Geophysical Union-AGU, Fall meeting, San Francisco, 2016.
- Organizer, Combined Sessions Tropical River and Channel Morphodynamics, AGU, Fall Meeting, San Francisco, 2015
- Chair Tropical Rivers Session, RCEM 2015-Iquitos.
- Co-organizer, Session Sediment Dynamics of Tropical River Systems, European Geophysical Union, EGU, Vienna, 2015.
- Organizer, Session EP Multiscale and multidisciplinary fluvial research in Tropical Regions, American Geophysical Union-AGU, Fall meeting, San Francisco, 2014
- Co-organizer Session EP Fluvial morphodynamics, Channels Patterns and beyond, American Geophysical Union-AGU, Fall meeting, San Francisco, 2014
- International Symposium Current Watershed Management Issues in Brazil, UT-Austin-LLILAS, Austin, 2014
- Nominated by the International Association of Geomorphologist-IAG to manage the Tropical Geomorphology area in the IAG 8th International Conference on Geomorphology, Paris, 2013.
- Organizer 24A-Session Tropical rivers-IAG- and IGCP 582 Unesco, IAG 8th International Conference on Geomorphology, Paris, 2013.
- Organizer/chair of the AGU Fall meeting-San Francisco 2012, River morphodynamics and channel patterns: how do river patterns come to be different? (co-organizers J. Abad, Univ. Pittsburgh and P. Ahsworth, UK)
- Session Lowland Rivers, Association of American Geographers, New York, 2012 (with J. Abad-University of Pittsburgh).
- Organizer, session Fluvial morphodynamics and channel patterns, American Geophysical Union-AGU, fall meeting, San Francisco, December 2011 (with J. Abad-University of Pittsburgh and S. Lanzoni-University of Parma-Italy).
- IGCP 582 - Unesco Session Morphodynamics of fluvial systems during the anthropogenic, 14<sup>th</sup> Latin American Congress of Geology, Medellin Colombia. August, 2011.
- Brazilian Center-LLILAS-UT of the panel The Amazon: Facing Global Climate Change. UT-Austin, TX. November 10, 2010.
- Co-organizer of the 5th RCEM International Symposium, River Coastal and Estuarine Morphodynamics, IAHE- International Association of Hydraulic Engineers, Santa Fe, Argentina. September, 2009.
- Chair of the 1th IGCP-Unesco 582 and Symposium on Large South American Rivers, Brazilian and Argentinean Congress on Quaternary-ABEQUA-GAGC, La Plata Argentina. September, 2009.
- Main organizer of the International Regional Conference on Geomorphology of the International Association of Geomorphologists-IAG. Tropical and subtropical Geomorphology: methods and techniques, Goiania, Brazil. September 3-10, 2006
- Co-organizer (with Prof. Jose Stevaux-Brazil) of the GLOCOPH International Symposium, Global Commission on Continental Paleohydrology, Sao Paulo, Brazil. August 2006.
- Session Fluvial systems: land degradation and river management, COMLAND Symposium, International Commission on Land Degradation-IUG, Uberlandia, Brazil. May, 2005.



- International Course Fluvial Dynamic: processes and landforms, International Association of Geomorphologists-IAG, 2004. Brazil. (With Prof. J. Stevaux- Brazil)
- Symposium on Geomorphological Sites: vulnerability and assessment, Regional Conference on Geomorphology, International Association of Geomorphologists, México. October 28-November 7, 2003 (with Prof. E. Reynard, Switzerland).
- Workshop Late Cenozoic fluvial deposits- IGCP 449, III Latin-American Congress of Sedimentology. Belem do Pará, Brazil. June,7 -11, 2003
- International Field Conference Amazon 2003, GLOCOPH working group, Paleohydrology of Large Rivers and IGCP 449, June 12 –18, 2003 (with J.C. Stevaux, Brazil).
- Symposium S6 “Large Rivers”, International Conference on Geomorphology, Tokyo, Japan, August 2001 (with A. Gupta (UK)).
- International Course “Index and Indicators of Environmental Quality” RELESA/ELANEM project, INCO program, European Community and UFG. Goias. October 29-November 11 of 2001.
- International Symposium on Paleohydrology and Geomorphology of Large Rivers and Field Conference Araguaia 99, GLOCOPH-IAG. Goiania, Brazil. September 12 to 21, 1999.
- First South-American Symposium on Paleohydrology, Global Commission on Continental Paleohydrology-GLOCOPH-INQUA, Curitiba, July 27 to August 5, 1997, ABEQUA Congress (with J.C. Stevaux-Brazil).
- Field Conference IGCP 341- UNESCO - Southern hemisphere Paleo and Neoclimates” on ‘Paleo and Neoclimates in Southwestern Brazilian Amazonia. October 15 to 21, 1996.
- 4<sup>th</sup> Meeting of IGCP -UNESCO 281 - Quaternary Climates of South America - Manaus, November 8 – 12, 1992.
- International Symposium on the Quaternary of the Amazon, ABEQUA-SUDAMQUA, Manaus, November 8-12, 1992.

#### **External teaching/Seminars etc:**

I do not keep a comprehensive record of seminars that I have given, however they include presentations and courses given at the following institutions:

- Earth Observatory of Singapore-EOS and Asian School of the Environment-ASE, Nanyang Technological University-NTU (2016).
- National University of Singapore, (2016), Dep. Geography Continental Sources, Sinks and The Human Factor in Large Tropical Rivers: The Case of South America
- RCEM 2015, The Amazon: Field Course, Iquitos, Peru.
- Earth Observatory of Singapore-EOS and Asian School of the Environment-ASE, Nanyang Technological University-NTU (2015). Anabranching patterns: the kingdom of large alluvial rivers
- Earth Observatory of Singapore-EOS and Asian School of the Environment-ASE, Nanyang Technological University-NTU (2015). The Late Quaternary of the South American Tropics: From Paleogeography to Present Environments

- Head- Field Trip-International Correlation Program- Proposal, INPA, Manaus, Brazil (2015)
- University of Texas San Antonio, Department of Geology, (2015). Anabranching patterns: the kingdom of large alluvial rivers
- University of Rochester, (2014), Department of Geology, Late Cenozoic paleogeography, paleoclimates and paleoecology of the Amazon basin.
- INPA, Manaus, (2014), Late Tertiary and Quaternary paleogeography and environmental changes in the Amazon.
- Ministry of the Environment, Peru, Lima. (2012).The dam's threat and the dark future of the Amazon basin
- The University of Pittsburgh (2012). Anabranching patterns in large rivers: state of the art and clues from the tropics.
- Texas A&M University, USA (2011). Paleoclimatic and paleoenvironmental Late Pleistocene changes in tropical South America.
- Universidad EAFIT, Colombia (2010). Megarivers: ultimate adjustments in channel patterns
- University of Texas at Austin-USA (2009-2010). The dark future of the Amazon basin; The geomorphologic response of the Araguaia river to tremendous deforestation rates during the last decades
- East Carolina University, USA (2009). The late Quaternary of Tropical South America
- University of Illinois-Urbana-Champaign, USA (2008). Fluvial response to extreme deforestation in Central Brazil: the Araguaia river case.
- Duke University, USA (2008).The Late Cenozoic of Tropical South America: paleogeography, palaeoecology, palaeoclimatology
- Smithsonian, Panama (2007). The late Miocene paleogeography of the Amazon basin
- University of Frankfurt, Germany (2006). The late Pleistocene of the Amazon basin
- University of California, Santa Barbara, USA (1998). The Quaternary fluvial record of the Amazon basin
- University of Cantabria, Spain (2002, 2005). Tropical Rivers: human impacts and environmental consequences
- University of Modena, Italy (1996).
- University of Turku, Finland (1995).
- East Normal University of China, Shanghai, China (2000, 2006).
- Polish Academy of Sciences, Krakow, Poland (2000). Late Quaternary paleohydrology of South America
- University of Santa Catarina, Brazil (1997). Amazon geomorphology
- National Institute of Amazon Research-INPA, Brazil (1993, 1995, 2007). Late Cenozoic paleoecology and paleogeography of South America
- Universidad Complutense de Madrid, Spain (1997). Floods in SW Amazon
- IITK, Indian Institute of Technology, Kanpur, India (2002). Tropical rivers geomorphology

- Universidad Nacional de San Luis, Argentina (1998). Large Rivers Geomorphology
- Universidad Nacional de La Plata, Argentina (2006). Patterns of anabranching systems: ultimate adjustments in large rivers
- Universidade Estadual de Sao Paulo, UNESP, Brazil (2008). Human impacts and fluvial response in the Araguaia basin, Central Brazil.
- Argentinean Committee of Quaternary Research, International Course, Argentina (1994). Fluvial Geomorphology: lessons from South America
- Maringá State, University, Brazil (2000, 2004). Geomorphology of tropical rivers
- Secretary of Planning, Acre State, Brazil (1995). Geomorphology applied to environmental studies
- Museu Paraense Emilio Goeldi, Brazil (2002). The Quaternary paleogeography of the Amazon
- National University of El Litoral, Argentina (2007). Megarivers and anabranching patterns
- Universidad Mayor de San Andrés, Bolivia (2006). Applied fluvial Geomorphology: using index and indicators
- Universidad Pedagógica El Libertador, Venezuela (2004-2005). Quaternary of tropical South América
- University Guarulhos, Brazil. Biotic –abiotic relationships in fluvial systems
- International Course on Fluvial Dynamic: processes and landforms, Supported by the international Association of Geomorphologists-IAG (2009). Large Rivers morphodynamics
- University of Pittsburgh (2012) The role of anabranching patterns in megarivers

#### **SERVICE-UNIVERSITY OF TEXAS AT AUSTIN**

- Merit committee-Geography & Environment- 2012-2014, 2016-2018.
- Graduate Admission and Awards Committee 2011-2012, 2013-2014, 2014-2015
- Geography Track Committees-Earth Science Track Subcommittee, 2014-2016
- Colloquium Committee, 2014-2016
- Environment BDP-Bridging Disciplines Program, faculty panel since 2011- ongoing
- Environmental Science Institute-Watershed Program, faculty panel, since 2011-ongoing.
- Member of the LLILAS Argentine Studies Fund Committee, 2011-ongoing.
- Nominator and host of the Tinker Visiting Professor-LLILAS, Dr. Juan Restrepo, University EAFIT, Colombia, fall 2011.
- Member of the committee LILAS-Brazil Center Selection committee Fulbright Brazilian visiting Professor, 2010.
- Nominator and host of a grant provided by LLILAS-Brazil Center to allow the visit of Prof. Naziano Filizola, Universidade Federal do Amazonas to generate research articles and projects in collaboration, 2010.

## **HOST AT UT-AUSTIN AND EOS-NTU OF FOREIGN AND NATIONAL RESEARCHERS FOR COLLABORATIVE RESEARCH DUTIES**

- Prof. Gerald Nanson, University of Wollongong, 2017
- Prof. Paul Baker, Duke University, 2017
- Prof. Catherine Rigsby, ECU, 2017
- Prof. Juan Restrepo, University EAFIT-Colombia, LLILAS Short term Visiting Tinker Professor, fall 2015.
- Prof. Jose C. Stevaux, UNESP-Rio Claro, Dep. of Geology, Brazil, May-July, 2014
- Prof. Juan Restrepo, University EAFIT-Colombia Visiting Tinker Professor, fall 2011 (academic and research duties).
- Prof. Jorge Abad, University of Pittsburgh, Department of Civil and Environmental Engineering (April, 2011)
- Prof. Naziano Filizola Universidade Federal do Amazonas, Department of Geography, Brazil (september, 2010).
- Prof. Alfredo Borges, Universidade Federal de Goiás, Brazil (May 2010).
- Prof. Takashi Oguchi, University of Tokyo, Japan. Vice-director, Center for Spatial Information Science, (December, 2010)

## **LEADERSHIP IN SCIENTIFIC ORGANIZATIONS AND INTERNATIONAL GROUPS OF RESEARCH**

- Chair of the International Association of Geomorphologists-IAG working group, Geomorphology of Tropical Rivers, 2009-2013 and 2013- 2017 (ongoing).
- Advisory Board Member TERPO (Terrestrial Processes, Deposits and History), Commission of INQUA-Int. Union of Quaternary Research, 2015-ongoing.
- Advisory Board Member Commission on Stratigraphy and Chronology (SACCOM), INQUA- Int. Union of Quaternary Research, 2015-ongoing.
- Member, Steering Committee of TERPO (Terrestrial Processes, Deposits and History), Commission of INQUA- focus area on hydrological change and climate. Since 2007 (in activity).
- Member, Steering Committee of TERPO (Terrestrial Processes, Deposits and History), Commission of INQUA- focus area Quaternary Geology of South America, coordinator of the sub-area Fluvial Record. Since 2011 (in activity).
- Key collaborator "Global Soils and Sediments transfers in the Anthropocene" (GloSS) Working Group-PAGES (2014-ongoing).
- Leader of the International Geosciences Program Project IGCP-Unesco 582 Tropical Rivers- Hydro-physical processes, impacts, hazards and management. (Co-leaders: Z. Chen (China); R. Sinha (India) and J.C Stevaux (Brazil). 2009-2013.
- Chair, Working/Group on Large Rivers-Global Commission on Continental Paleohydrology -GLOCOPH/INQUA. Since 1995 (in activity).
- Executive Committee of the International Association of Geomorphologists- IAG. 2001-2005.

- Co-leader with D. Bridgland (UK) and R. Sinha (India) of the International Geosciences Program Project IGCP 518 IGCP/Unesco, Fluvial Sequences as Evidence for Landscape and Climatic Evolution in the Late Cenozoic. 2005-2006.

#### **PROFESSIONAL SOCIETY MEMBERSHIPS**

- *Association of American Geographers-USA (2009-present)*
- *American Geophysical Union-AGU-USA (2008-present)*
- *Argentinean Association of Geomorphology and Quaternary (2006-present)*
- *International Association of Geomorphologists (1997-present)*
- *Geological Society of America-GSA (2015-present)*
- *Member and co-founder of the Brazilian Union of Geomorphologists (UGB) (1996-present)*
- *INQUA-International Union for Quaternary Research (1995-present)*
- *Brazilian Association of Quaternary Research-ABEQUA (1992-present)*

#### **CONSULTANCIES, INTERNATIONAL COURSES, INTERNATIONAL PROJECTS/NETWORKS MANAGEMENT AND OTHER REPORTS**

- Consultant of the project, Environmental base line Argos Bauru & corporative review of ecosystem services, Colombian Caribbean coast, 2013-2014.
- Professor of the course Hydro-physical processes, hazards and impacts in the Amazon basin, IGCP 582 annual meeting and Center for Research and Education of the Amazon rainforest-CREAR, Iquitos, August 2012.
- Professor of the International Course Fluvial Geomorphology with Emphasis on Large Alluvial Systems, IGCP 582-Unesco, 14<sup>th</sup> Latin American Congress of Geology, Medellin Colombia, August, 21-22, 2011.
- Professor of the intensive graduate course Large Rivers Geomorphology, Sao Paulo State University UNESP, Brazil, November 22-25, 2010.
- Visiting Professor-graduate course- State University of Sao Paulo –UNESP-Rio Claro-Geosciences graduate program, November 2010.
- Consultant of PETROBRAS, Brazil, Environmental Project Shallow water-Platform and the interactions with the São Francisco River. UFS/FAPESE (Nº 0050.0045002.08.4), 2009-2010.
- Professor of the international graduate course on Fluvial Morpho-dynamic, 5th RCEM International Symposium, River Coastal and Estuarine Morphodynamics, IAHE-International Association of Hydraulic Engineers, Santa Fe, Argentina, 2009 in collaboration with C. Ramonell (UNL-Argentina).
- Professor of the International Graduate course, Geomorphology and Global Change, Latin-American Symposium on Geomorphology-UGB, Belo Horizonte, Brazil, 2008, together with A. Goudie (U. Oxford), M. Thomas (Univ. Stirling) and J. Rabassa (CONICET).
- Professor, Course on Large Fluvial Systems, Geological Survey of Brazil-CPRM, Manaus, Brazil, June, 2008.
- Consultant in Fluvial Geomorphology, project Paraná-Paraguay River Navigation Effects Study, Rio Tinto mining company- North West Hydraulic Consultants-NHC to evaluate

navigation viability and environmental impacts from Caceres (Brazil) to San Nicolás (Argentina), 2006-2007 and 2008-2009.

- Consultant of the International Association of Geomorphologists to assess the World Heritage nomination of Ba Be National Park, Vietnam, as solicited by the World Heritage Committee and International Union for Conservation of Nature-IUCN.
- Professor of the Specialization Graduate Course in Fluvial Environments organized by the Brazilian Oil Company PETROBRAS-Universidade Federal de Sergipe, Aracaju, Brazil, 2006.
- Executor and chair of the Geomorphologic Map of Goiás State, contracted by the Goiás State Agency of Geology and Mining (covering an area of ~400,000 sq.km). 2004-2005.
- Consultant of Furnas Electric Brazilian Company, Geological Survey of Brazil -CPRM and Federal University of Rondonia as expert in fluvial geomorphology and Quaternary, to analyze the impact of a planned large dam on the Madeira River and fossiliferous Quaternary deposits, 2004-2005.
- Professor of the course Dynamic of fluvial systems: applications for multidisciplinary river management. United Nations- International Atomic Energy Agency, La Paz, Bolivia, July 16-22, 2005.
- Consultant to the Secretary of Water Resources-SEMARH, Goiás State, in environmental impact analysis on the Upper Araguaia basin, period: 2003-2004.
- Consultant to Organization of American States-OAS and Federal University of Sergipe, Assessment of Erosional processes on the Lower São Francisco River. 2001-2002.
- Consultant to the Environmental Agency of the Goiás State, in environmental problems related to the Araguaia-Tocantins waterway. 2001.
- Consultant to the Brazilian Geological Survey CPRM for several Projects on the Amazon Basin and the Bolivia-Brazil Zoning project, supported by Organization of American States-OAS, as a specialist in Geomorphology. 1999-2001.
- Organizer and professor of the International Course on Indicators and Indexes Environmental Quality, UFG-UEG, supported by European Union Latin. American Network on Environmental Assessment and Management- ELANEM Project, Goiás, Brazil.
- Consultant to Federal Brazilian Institute for the Environment and Ministry of the environment- IBAMA on water resources, preparation of the project Ecological Corridors in the Araguaia-Bananal fluvial System. 2000.
- Scientific and administrative responsible for the collaboration program between University of Modena-Italy and Federal University of Goiás-Brazil-2002-2006 -.
- Consultant to the United Nations Program for the Development/UNPD, Projects in the Amazon Region such as “Socio-economic and Ecologic Zoning of Rondonia State” and “Socio Economic and Ecologic Zoning of the Mato Grosso State”, from 1995 to 1998 as a specialist in Geomorphology. Budget: more than 25 million dollars each project.
- PI and delegate of the Federal University of Acre Fed. BETA network, Alfa Program European Community, 1995-1998. (Universities of Italy, Spain, Mexico, Netherlands, Argentina, Brazil, Chile and Cuba)

- Consultant on environmental problems and planning in Extractive Reserves, Southwestern Amazonia, Acre state. Technologic Foundation of Acre State - FUNTAC. 1996.
- PI and delegate of the Federal University of Acre Fed. Alfa Program European Community ERLAND network, 1994-1998 (Universities of UK, France, Finland, Ecuador, Brazil and Peru)
- Representative of the Federal University of Amazonas, Brazil- UFAM – Consulate of Venezuela – Elaboration of projects and academic bi-national agreements, Venezuela , July/August , 1992.

### **MEMBER OF EDITORIAL BOARDS**

- *Geomorphology (2001-ongoing)*
- *Journal of Geography and Natural Disasters (2012-ongoing)*
- *Alpine and Mediterranean Quaternary (2011-ongoing)*
- *Latin American Journal of Sedimentology and Basin Analysis (2006-ongoing)*
- *Paleoecology of Africa (2005-ongoing)*
- *Revista Brasileira de Geomorfologia (1998-ongoing)*

### **REVIEWER OF MANUSCRIPTS**

*Sciences Advances, Proceedings of the National Academy of Sciences-PNAS, Nature Geosciences, Nature Sustainability, Geology, Water Resources Research, Geomorphology; Earth Surface Processes and Landforms; Journal of Geophysical Research - Earth Surface, G-Cubed, Quaternary International; Quaternary Research; Quaternary Science Review; Remote Sensing and the Environment; Scientific Reports; Annals of the Association of American Geographers; Progress in Physical Geography; Sedimentology; Sedimentary Geology; Geoarcheology; Journal of South American Earth Sciences; Palaeogeography Palaeoecology Palaeoclimatology; Natural Hazards; Biogeochemistry; Paleoecology of Africa; Zeitschrift für Geomorphologie; Latin American Journal of Sedimentology and Basin Analysis; CATENA; Journal of Latin American Geography; Wetland Ecology and Management; Journal of Maps; Applied Geography; Science of the Total Environment; International Journal of Applied Earth Observation and Geoinformation, International Journal of Sedimentary Research, Geografia Física e Dinâmica Quaternaria (Italy); Revista Brasileira de Geociências; Revista Brasileira de Geomorfologia; Acta Scientiarum; Acta Amazônica; Annals of the Academy of Sciences of Brazil; Boletim Goiano de Geografia; Caldasia; International Journal of Earth Sciences; Environmental Science & Policy; Advances in Water resources; Terra Nova, River Systems, Elsevier, Wiley and Pearson Higher (reviews of book proposals in Earth Sciences).*

### **REVIEWER OF RESEARCH GRANTS**

- *National Science Foundation-NSF*
- *National Geographic Society*
- *Swiss Science Foundations, Switzerland*

- *National Council of Research, Brazil (CNPq)*
- *CAPES- Brazil,*
- *Ministry of Science and Technology, Argentina*
- *CONICET, National Council of Research, Argentina*
- *Federal University of Parana, Brazil*
- *Louisiana Board of Regents, USA*
- *INQUA- International Union for Quaternary Science-TERPO Commission*
- *International Association of Geomorphologists*
- *LLILAS-UT Austin-Argentinean Studies Committee*

### **MAIN SCIENTIFIC LONG VISITS AND LONG DURATION FIELD CONFERENCES**

- Visitor Researcher, Duke University, USA, April 2007 and March 2008.
- Visitor Researcher, Wood Hole Research Center, Falmouth, USA, February
- Visitor Researcher, Smithsonian, Panama, June, 2007.
- Visitor Researcher, University of Frankfurt, Department of Geography, May 2006.
- Visitor Researcher, Institute of Geomorphology and Soils, Universidad Nacional de La Plata, Argentina, from February to July 2005.
- University of Cantabria, Spain. Several short visits related to research projects from 1998 to 2005.
- Visitor Researcher, Department of Geosciences, University of Modena, Italy, December 1995 to March 1996, and several other short visits from 1999 to 2004.
- Visiting Researcher Indian Institute of Technology-IITK, Department of Geology, to do field work in the Ganges River basin in collaboration with Dr. Rajiv Sinha, Kanpur, India, December 2002.
- Visiting Researcher to University of Wollongong, Australia and participation in the GLOCOPH-FLAG-IGCP 449 Field meeting “Evidences for climate and flow-regime change in the Quaternary of Central Australia”. Organized by Dr. G. Nanson, University of Wollongong, Australia. June 28 to July 20, 2001.
- International Field Conference Mekong River 2000, with field work to Laos. IAG Large Rivers Working Group,
- Scientific visitor, University of Florida, February, 2000.
- Visitor Researcher, Polish Academy of Sciences, Krakow, Poland, October 2000.
- Scientific visitor, University of California at Santa Barbara (UCSB), Department of Geography, August 1998.
- Visitor Researcher, Department of Geology, Universidad Complutense de Madrid, to study the Rio Tajo Ibero-America Cooperation Program, February 1997.
- Visitor Researcher, Department of Geology, University of Turku, Finland, August/September 1995.



- Research training internship on Glacial Geomorphology and Quaternary Glaciations of Patagonia, Austral Center for Scientific Research-CONICET, Ushuaia, Tierra del Fuego, Argentina, February and March 1989.

**OTHERS REMARKABLE FIELDTRIPS RELATED TO SCIENTIFIC AND ACADEMIC ACTIVITIES.**

Tierra del Fuego-Argentina (1989); IGCP Field Conferences to Bolivian Andes (1989); South Chile (1994); GLOCOPH field trips to Central Spain (1996), Japanese Alps (1998); China-Tibetan plateau and Yangtze Basin (1999 and 2006); Colombian Andes (1990 and 2010); Kursk-Russian plains, (2000); Mekong River (Laos DR), (2000); Carpathian Mountains and Vistula river basin, Poland (2000); Central Australia, (2001); Kruger National Park-South Africa (2001); Peninsular India - Deccan Plateau, (2002); Ganges River-India (2002); Northern Spain (2005); Baja California-México (2004); The Smoky Mountains-Appalachians (2008); West USA National Parks (2009); Cape Lockout-NC (2008). Congo River (R. of Congo) (2013), Hungarian plains (2015)