

Abbreviated Curriculum Vitae

Florentin J-M. R. Maurrasse

Professor

Department of Earth and Environment

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Professional Preparation

Columbia University	Geological Sciences,	Ph D	1973
Faculté des Sciences de Marseille,	Geology, Diplome d'Etudes Supérieures		1967
Faculté des Sciences de Marseille	Geology	Lic. ès Sci.	1966
Ecole Normale Supérieure, Haiti	Nat.Sci./Chem	Dipl. Fin d'Etudes	1964

Professional Qualifications Licensed Professional Geologist, State of Florida, No 1023

Appointments

Professor, Florida International University, Department of Earth Sciences,	1984 - present
Director, Florida Center for Analytical Electron Microscopy (FCAEM)	2008- 2012
Faculty Fellow, Florida International University, Honors College	1998 - 2012
Chairman, Florida International University, Department of Geology	1994 - 1996
Founding Chairman, Florida International University, Department of Geology	1984 - 1991
Associate Professor, Florida International University, Dept. Phys. Sciences	1976 - 1984
Assistant Professor, Florida International University, Dept. Phys. Sciences	1973 - 1976.

Recent Synergistic Activities

- Member Advisory Board, LDEO, Columbia University, **2004 – present**
- Co-Convener with Dr. Ricardo Barragan (UNAM, Mexico), Session PP05. *Spatial and Temporal Variations of C-org-rich deposits in mid-Cretaceous (Barremian - Turonian) Tethyan Realm*. AGU Meeting of the Americas, Cancun, Mexico, 13- 17 May 2013
- Co-organizer with Prof. Marcos Lamolda, Geoevents, Caravaca, Spain Sept. 15 -18, **2010**
- Member, Presidential Search Advisory Committee, Florida International University, **2008 - 2009**
- Co-chair Topical Session, AGU Joint Assembly, Fort Lauderdale, May, **2008**
- Member, Provost Search Committee, Florida International University, **2006 - 2007**
- Research on Cretaceous anoxic events, in collaboration with Dr. Marcos Lamolda, University of Granada, Spain; Dr. Ricardo Barragan, UNAM, Mexico; Dr. Alberto Blanco Piñón, Universidad Estado de Pachuca, Mexico, Dr. Mihaela Melinte Dobrinescu, Geoecomar, Romania. **1997- present**.
- Co-organizer and co-editor with Marcos Lamolda, Spain and Chris Paul, United Kingdom, Proceedings Bioevents Conference, Caravaca, Spain June **2003**; Jour. of Iberian Geology v. 31. No. 1; Palaeo3, v.224, Issues 1-3, 2005.
- Chair Topical Session, Geological Society of America, Annual Meeting on “Barremian to Turonian Carbonate Platform in Northeastern Mexico, their paleogeographic, paleoceanic, and paleoclimatic implications, Comparison with coeval facies elsewhere in the Tethys”, **2003**.

Present Collaborators and other Affiliations

- Dr. Marcos Lamolda, University of Granada, Spain
- Dr. Theo Wong, University of Utrecht, Netherlands
- Dr. Fernando Etayo Serna, Universidad Nacional de Colombia, Bogota, Colombia
- Dr. Julian Edward, Florida International University, USA (GEMS project)
- Dr. Ricardo Barragan, Instituto de Geologia, UNAM, Mexico
- Dr. Alberto Blanco, University Estado de Pachuca, Mexico
- Dr. Camilo Ponton, Massachusetts Institute of Technology (MIT), USA
- Dr. Josep Anton Moreno Bedmar, Instituto de Geologia, UNAM, Mexico
- M^{elle} Claude Monier, Marseille, France
- Dr. Mihaela Melinte Dobrinescu, Geoecomar, Romania

Recent Doctoral students graduated

2014 - Yosmel Sanchez-Hernandez: Paleooceanography of OAE1a in the western Tethys: The El Pui section, Organyà Basin, Catalunya, Spain.

2013 - Gaona Tatiana: Characterization of Oceanic anoxic Event –1 (OAE-1) in Tethyan Betic domain, Spain and Colombia.

2007 - Horst, Peter Arjan: Paleoenvironmental characteristics of Cenomanian/Turonian Oceanic Anoxic Events in sediment records of the Tethys.

2006 – Duque-Botero, Fabian: Paleoenvironmental implications of the Indidura Formation (Cenomanian/Turonian), Northeastern Mexico: A high-resolution stratigraphic study

2000 - Guha, Hillol: Transport of Redox sensitive contaminants through geologic media: Laboratory experiments and modeling approaches.

2000 – Barragan, Ricardo: Ammonite Biostratigraphy, Lithofacies Variations, and Paleooceanographic Implications for Barremian/ Aptian sequences of Northeastern Mexico.

Current Doctoral student

Jander Socorro: Aptian – Albian of the Organyà Basin and redox conditions

Recent Master's students graduated

2006 - Ponton, Camilo: Temporal and spatial facies changes of Barremian-Aptian deposits of the Tethys, France and northeastern Mexico. (Currently completing PH.D at MIT)

2002 – Rego, Rodolfo: A Hydrogeologic Investigation of the Miami Limestone and Fort Thompson Formation in the Frog Pond Area, Everglades, and Florida

2001 - Jean-Poix, Claude: Environmental Geology of the Port-au-Prince area, Haiti

Recent Awards/Honors Recognition

- **2007** Excellence in Graduate mentorship Award, Florida International University
- **2004** Honors College Excellence Awards, Florida International University

Recent Research Grants

- **2009-2011:** Co-Pi, Laboratory and Postdoctoral Support for Core and Seismic Reflection Analyses and Magnetostratigraphy. US Geological Survey, Amount: \$ 60,670.00
- **2008 – 2013:** Co-Pi, Robert Noyce Fellowship: Get Educators in Mathematics and Science (GEMS). National Science Foundation, Amount: \$749,976.00

Research Interests

My main current research interests focus on the Caribbean /Latin America region, and paleoenvironments related to Cretaceous greenhouse climate and oxygen depletion (OAE's) in the oceans worldwide. Special emphasis is on the proto-Atlantic and western Tethys. My working group and doctoral students are currently working on Oceanic Anoxic Event 1a (Lower Aptian) and OAE 2 (C/T) in Mexico, Colombia, Southeastern France and Spain. This line of research provides the opportunity to assess the relationship between global forcing factors and local physiography in generating basins with potential occurrence of C-org-rich sediments at the origin of hydrocarbon resources. The different research projects address these issues in a multi-proxy approach that includes the integration of analyses of microfacies, inorganic carbon analyses (TIC, weight % CaCO₃), organic carbon analyses (TOC, weight % C), stable carbon isotope measurements ($\delta^{13}\text{C}_{\text{org}}$, $\delta^{13}\text{C}_{\text{carb}}$), major and trace elements analyses, biomarkers, biostratigraphy (microfossils, macrofossils), as well as analyses of biomarkers, and clay mineral X-ray diffraction on selected samples.

Selected Publications

Sanchez-Hernandez, Y., **Maurrasse**, F.J.-M.R. (submitted). The Influence of regional Factors in the Expression of Anoxic Event 1a (OAE1a) in the Organyà Basin, south-central Pyrenees, Spain. *Palaeo* 3.

Maurrasse, F.J.-M.R., Sanchez-Hernandez, Y. 2014. High-Resolution Chemostratigraphy and Facies Analysis of an Early Cretaceous Expanded Section of the Organyà Basin: Implications for Barremian-Aptian Global $\delta^{13}\text{C}$ Correlation and Sea Level Changes / 21 2nd IGCP 609: Climate-environmental deteriorations during greenhouse phases: Causes and consequences of short-term. Cretaceous sea level change Workshop and

- the EARTHIME-EU Sequence Stratigraphy Workshop, Bucharest, 23-25 August 2014. P. 21.
- Sanchez-Hernandez, Y., **Maurrasse**, F.J.-M.R. (2014): Geochemical characterization and redox signals from the latest Barremian to the earliest Aptian in a restricted marine basin: El Pui section, Organyà Basin. *Chemical Geology*, 372:12–31.
- Sanchez-Hernandez, Y., **Maurrasse**, F. J.-M.R., Melinte-Dobrinescu, M. C., He, D., Butler, S. K., (2014): Assessing the factors controlling high sedimentation rates from latest Barremian–earliest Aptian in a restricted marginal basin. *Cretaceous Research*, 51: 1-21.
- Gaona-Narvaez T, **Maurrasse** FJ-MR, Moreno-Bedmar JA (2013) Stable Carbon Isotope Stratigraphy and Ammonite Biochronology at Madotz (Navarra, N Spain): Implications for the Timing and Duration of Oxygen Depletion during OAE-1a. *Cretaceous Research*, 40:143–157.
- Gaona-Narvaez, T., **Maurrasse**, F.J.-M.R., and Etayo-Serna, F., Geochemistry, Paleoenvironment and timing of Aptian organic-rich beds of Paja Formation (Eastern Cordillera, Colombia). 2013, *In* : Bojar, A.-V., Melinte-Dobrinescu, M. C. & Smit, J. (eds) *Isotopic Studies in Cretaceous Research*. Geological Society, London, Special Publications, 382, <http://dx.doi.org/10.1144/SP382.6> # The Geological Society of London 2013. Publishing disclaimer: www.geolsoc.org.uk/pub_ethics
- Moreno-Bedmar, J.A., M. Company, J. Sandoval, J.M. Tavera, T. Bover-Arnal, R. Salas, G. Delanoy, F.J.-M.R. **Maurrasse**, R. Martínez. 2012. Lower Aptian ammonite and carbon isotope stratigraphy in the eastern Prebetic Domain (Betic Cordillera, southeastern Spain). *Geologica Acta*, v. 10, 4, p. 1 – 12.
- Moreno-Bedmar, J.A., Company, M., Delanoy, G., **Maurrasse**, F., Bover-Arnal, T., Salas, R., Grauges, A., and Martínez, R. **2010**. Lower Aptian Ammonite Biostratigraphy in the Maestrat Basin (Eastern Iberian Chain, Eastern Spain). A Tethyan transgressive record enhanced by synrift subsidence- *Geologica Acta*, v.8, No. 3, p. 1 – 19.
- Duque-Botero, F., **Maurrasse**, F.J.-M.R., Hickey-Vargas, R., Melinte, M., Jaffe, R., and Lopez-Oliva, J. G., Microspheroids accumulation and geochemistry of an anoxic basin of the Cenomanian/Turonian: The record of the Indidura Formation, NE Mexico. *SEPM Special Publication No. 93*, Copyright © 2008 SEPM (Society for Sedimentary Geology), ISBN 978-1-56576-137-7.
- Duque-Botero, Fabian and **Maurrasse**, Florentin, J.-M.R. 2008. Cyanobacteria in C-org-rich deposits from the Indidura Formation (C/T), NE Mexico; *Cretaceous Research*, v.29, 5-6, Oct.-Dec. 2008, p. 957-964.
- Barragan, R., and **Maurrasse**, F. J., 2008, Lower Aptian (Lower Cretaceous) ammonites from the basal strata of the la Peña Formation of Nuevo Leon State, Northeast Mexico: biochronostratigraphic Implications, *Revista Mexicana de Ciencias Geológicas*, v. 25, p. 145-157
- Maurrasse, Florentin, J.-M.R, 2007, Geochemical, lithologic and biotic variations of the K/P boundary record, implications for seiche-like movements as causal factors in the observed mix-up. 17th Goldschmidt Conference, Cologne, Germany. A640.
- Maurrasse, Florentin. J.-M. R., Lamolda, Marcos A., Aguado, Roque, Peryt, Danuta , and Sen, Gautam, 2005, Spatial and Temporal variations of the Haitian K/T boundary record: implications concerning the event or events, Bioevents Conference, *Journal of Iberian Geology*, v.31, p.9-24.
- Maurrasse, Florentin. J.-M. R., Sedimentological processes and their implications on unusual fossiliferous beds or “Lagerstätten”, 2007, XXIII Jornadas de La Sociedad Española de Paleontología , libro de resúmenes, p. 133-134..
- Maurrasse, Florentin, J.-M.R, 2007, Geochemical, lithologic and biotic variations of the K/P boundary record, implications for seiche-like movements as causal factors in the observed mix-up. 17th Goldschmidt Conference , Cologne, Germany, Abs.p. A640.
- Maurrasse, Florentin. J.-M. R., Barragan-Manzo, Ricardo, and Ponton, Camilo, Cupido-La Peña Formations: High-productivity to Super-productivity during Cretaceous enhanced greenhouse conditions, 2006 GSA Annual Meeting, Abs. V. 38, No. 7, p. 491.
- Horst, Peter A., and **Maurrasse**, Florentin. J.-M. R., Characterization of geochemical and fossil variabilities in Cenomanian-Turonian sediments of DSDP Leg 43, Site 386, Bermuda Rise, 2006 GSA Annual Meeting, Abs. V. 38, No. 7, p. 512-513.
- Ponton, Camilo, and **Maurrasse**, Florentin. J.-M. R., Aptian deposits of the Provençal Platform of Southern France: evidence for low-oxygen conditions and the influence of local physiographic factors, 2006 GSA Annual Meeting, Abs. V. 38, No. 7, p. 492
- Duque-Botero, F. and **Maurrasse**, F.J.-M.R., and Mihaela Carmen Melinte, Sedimentary cycles and geochemistry of the Indidura Formation, Cenomanian/Turonian (NE Mexico): causal relationship to Oceanic Anoxic event 2, 2006 GSA Annual Meeting, Abs. V. 38, No. 7, p. 148.

- Horst, Peter A., and **Maurrasse**, Florentin, 2005, Upper Cenomanian deposits at DSDP Site 386 and ODP Site 144: Paleoceanographic and Climatological Implications. 7th International Symposium on the Cretaceous - Neuchatel, 5 –7 September, 2005, p. 106
- Duque-Botero, F., and **Maurrasse**, F. J. 2005, calcareous cyanobacterial microspheroids from the Cenomanian/Turonian of the Indidura Formation, NE Mexico. 7th International Symposium on the Cretaceous - Neuchatel, 5 –7 September, 2005, p. 73
- Maurrasse, F. J-M.R., and Ponton, C. 2005, Aptian deposits in Southeastern France and Northeastern Mexico: Implications concerning paleoclimatic conditions . 7th International Symposium on the Cretaceous - Neuchatel, 5 –7 September, 2005, p. 137-138.
- Maurrasse, Florentin. J-M. R., Lamolda, Marcos A., Aguado, Roque, Peryt, Danuta , and Sen, Gautam, 2005, Spatial and Temporal variations of the Haitian K/T boundary record: implications concerning the event or events, Bioevents Conference, Journal of Iberian Geology, v.31, p.9-24.
- Duque-Botero, F., and **Maurrasse**, F. J., 2005, Cyanobacterial productivity, variations of the C-org, and facies of the Indidura Formation (Cenomanian-Turonian), Northeastern Mexico, Journal of Iberian Geology, Journal of Iberian Geology, v.31, p. 9-24.
- Aguado, Roque, Lamolda, Marcos A, **Maurrasse**, F. J-M.R., 2005, Calcareous nannofossils of the Cretaceous/Tertiary boundary near Beloc (Haiti): biostratigraphy, assemblages composition and paleoclimatic implications, Bioevents Conference, Journal of Iberian Geology, v.31, p.9-24.
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- Duque-Botero, Fabian, and **Maurrasse**, F. J., 2003, Organic-rich sediments of the Indidura Formation (C/T), Northeastern Mexico. The Geological Society of America, Abs. with Programs, v. 34, no. 7, p. 87.
- Horst, P., and **Maurrasse**, F. J-M. R., 2003, Astronomical tuning of Cenomanian sediments in the Atlantic Section of the Tethys, The Geological Society of America, Abs. with Programs, v. 34, no. 7, p. 87.
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- Guha, H., Jayachandran, K., and **Maurrasse**, F., 2003, Microbial Reduction of chromium (VI) in presence of pyrolusite-coated sand by *Shewanella* alga Simudu ATCC 55627 in laboratory column experiments, Chemosphere, v.52 (2003),p. 175 – 183.
- Duque-Botero, F, and **Maurrasse**, F., 2002, Spatial and temporal variations of the Indidura Formation (Cenomanian-Turonian) in Norhteastern Mexico, Coahuila State, EOS, Transactions of the American Geophysical Union, v. 83,(47), Fall Meeting Supplement Abstract, 19 November 2002, p. F923..
- Duque-Botero, F, and **Maurrasse**, F., 2002, Microbial (Cyanobacteria?) induced sediments from the Cretaceous of Northeastern Mexico, The Geological Society of America, Abs. with Programs, v. 34, no. 6, p. 16.
- Guha, H., **Maurrasse**, F., and Jayachandran, K, 2001, Optimization of Microbial Reduction of Hexavalent Chromium over Geochemical Oxidation by Pyrolusite-coated sand: Environmental Pollution, Elsevier, V. 6, July, 2001 p. 1-10. ?
- Guha, H., Jayachandran, K., and **Maurrasse**, F., 2001, Hydrological, geochemical, and microbiological processes affecting chromium transport through pyrolusite-coated sand: 7th International Conference on Wetland systems for water pollution control, November 11- 16, 20; Journal of Water Science and Technology, Jan. 2001, p. 1253 - 1260
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- Barragan, R., and **Maurrasse**, F. J., 2000, Transition Cupido-La Pena Formations in Northeastern Mexico, Enhanced apparent depth due to anoxic conditions: EOS, Transactions, American Geophysical Union , v. 81, No 48, p. F 204-205.
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- Lamolda, M. A., Aguado, R., **Maurrasse**, F. J.-M.R., and Peyrit, Danuta, 1997, El Tránsito Cretácico/Terciario en Beloc, Haití: Registro micropaleontológico e implicaciones bioestratigráficas : Geogaceta, v. 22, p. 97 – 100.
- Maurrasse, F., and Sen, G., 1996, Field Guide to K/T boundary in Haiti: Geological Society of America Annual Meeting. 22 p.
- Maurrasse, F.J.-M. R., 1995, Meteorite impact in the Yucatan, Mexico and worldwide catastrophe 65 million years ago: Journal Maya Studies, v. 1 No. 1, p. 27 - 39.
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- Thorpe, A. N., Senftle, F. E., May, L., Barkatt, A., Adel-Hadadi, M. A., Marbury, G. S., Izett, G. A., and **Maurrasse**, F. R., 1994, Comparison of the magnetic properties and Mossbauer analysis of glass from the Cretaceous-Tertiary boundary, Beloc, Haiti, with tektites: Journal of Geophysical Research, v. 99, No E5, p. 10,881 - 10,886.
- Maurrasse, F.J.-M. R., 1993, Taxonomy, biostratigraphy, and paleoecologic significance of calcareous-siliceous facies of the Neogene Montpelier Formation, Northeastern Jamaica: Geological Society of America Memoir 182, Biostratigraphy of Jamaica. p. 255 - 282.
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- Maurrasse, F. J.-M. R., and Sen, G., 1991, Impacts, Tsunamis, and the Haitian Cretaceous-Tertiary boundary layer : Science, v. 52, p. 1690 - 1693.
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- Sen, G., Hickey-Vargas, R., Waggoner, D. G., and **Maurrasse**, F., 1988, Geochemistry of basalts from the Dumisseau Formation, southern Haiti: implications for the origin of the Caribbean Sea crust : Earth and Planetary Science letters, v. 87, p. 423 –437.
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- Maurrasse, F., 1978, -- Secondary sedimentary structures, *Encyclopedia of Sedimentology*, Rhodes W. Fairbridge and Joanne Bourgeois, editors, Dowden Hutchinson and Ross, Inc., Publisher p. 657-658.
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