

CURRICULUM VITAE

OF

LUÍS MANUEL RIBEIRO SARAIVA

January 2010

## **I. INTRODUCTION**

Lúis Manuel Ribeiro Saraiva was born in Lisbon on June 12, 1951. He graduated in Pure Mathematics in the Faculty of Sciences of Lisbon in 1973, with the final mark of 19 out of 20. He graduated in Romanic Philology in the Arts Faculty of Lisbon in 1980, with the final mark of 17 out of 20.

In July 1985 he obtained his Ph.D. in Mathematics in the University of Sussex, England, with the thesis "Removable singularities and Quasilinear Parabolic Equations". This thesis was accepted in Lisbon University in November 1985. Since then he has been a member of the teaching staff of the Department of Mathematics of the Faculty of Sciences of Lisbon. He is an Associate Professor since November 2002.

He is a member of CMAF (Center of Mathematics and Fundamental Applications), of the Portuguese Society of Mathematics, of the Portuguese National Seminar of History of Mathematics, and of the International Commission on the History of Mathematics.

Since 2004 he is deputy director of the Science Museum of the University of Lisbon.

## **II. SCIENTIFIC WORK**

In 1974 he became a member of the research project 74-L CEN/M-1 (Functional Analysis and Applications). In 1978 he started working in the CMAF project "Particle Differential Equations". Since 1990 he has been part of the team "Elliptic and Parabolic Problems".

He has been also doing research in History of Mathematics, and is the supervisor of the CMAF project "History of Mathematics".

He is the supervisor of three Ph.D. thesis on History of Mathematics.

During 1987 he was a member of the Lisbon Commission to Honour the Portuguese Mathematician J.A. da Cunha. Together with Professors M. L. Ferraz and J. F. Rodrigues he was the editor of the Proceedings of the International Colloquium organized by the above Commission, which were published in December 1990.

With Professor J.F. Rodrigues he organized a Compilation of all the out of print scientific works of J. A. da Cunha and of those written about him in his time, which was included as an appendix in the above Proceedings. This marks the first publication in Portugal of some of these texts.

He was also a member of the sub-commission that organized an exhibition about this mathematician in Lisbon's Biblioteca Nacional and that published its Catalogue. In this he was the supervisor for the part concerning da Cunha's scientific and literary works.

He is a founding member of the National Seminar of History of Mathematics and its coordinator since its inception in January 1988. The Seminar, whose members come from the Universities of Beira Interior, Coimbra, Lisbon Minho and Oporto, has since organized twenty two National Conferences, each with at least one invited non-portuguese researcher. These invited speakers were Professors U. D'Ambrosio (Campinas, Brazil), J. Dhombres (UPR 21, CNRS, France), I. Grattan-Guinness (Royal Society, London) -who attended three Conferences each-, Sérgio Nobre, (UNESP,

Brazil), José Chabas, (University Pompeu Fabra, Barcelona, Spain) -who attended two Conferences each-, E. Ortiz (Imperial College, London), J. Fauvel (Open University, Milton Keynes, England), C. Houzel (REHSEIS, CNRS, France), C. Jami, (CNRS, Paris), Han Qi (Institute for the History of Natural Science, Beijing, China), Circe Silva (University of Espírito Santo, Brazil), Eleanor Robson (University of Oxford), Eberhard Knobloch (Technische Universität Berlin), David Crilly (Anglia University), Oscar Abdounur (S. Paulo University, Brazil), Gert Schubring (University of Bielefeld), Hans Niels Janhke, (University of Essen), Reinhard Kahle, (University of Tuebingen), Giovanna Cifoletti, (Koyré Center, Paris), Mariano Esteban Piñero, (Faculty of Sciences, Valladolid, Spain), , Jens Hoyrup, (University of Roskilde, Danmark), Alison Sandman, (Dibner Institute, Cambridge, Massachussets, USA), Vitor Navarro Brotons and Pedro Ruíz Castell (both from the University of Valência), Enrico Giusti, (University of Florence, Italy), Jean Mawhin (University of de Louvain, B elgium) Karin Reich (University of Hamburg), Gerhard Wanner (University of Genevre, Switzerland), Bernard Hodgson (University of Laval, Quebec), Ugo Baldini (University of Padova), Roberto Martins (UNICAMP, Brazil) and Carlos Ziller ( Federal University of do Rio de Janeiro, Brazil), all of whom attended only once these meetings.

He was the President of both the Organizing Committee of the First Summer School of History of Mathematics ( vora, July 1990), and of the Organizing Committee of the First Luso-Brazilian Meeting on the History of Mathematics (Coimbra, August/September 1993). He was also the Coordinator of the Portuguese Section of the Organizing Committee of the Second Luso-Brazilian Meeting on History of Mathematics ( guas de S. Pedro, S. Paulo, Brazil, March 1997).

He was the President of the Organizing Committee of the International Meeting "History of Mathematical Sciences: Portugal and East Asia" (Arr bida, Portugal,

November 1995), and the editor of its Proceedings, which were published by the Orient Foundation in 2000. He was the Coordinator of the Scientific Committee of the Second International Meeting "History of Mathematical Sciences: Portugal and East Asia", which took place in the University of Macao in October 1998, and the editor of its Proceedings.

He was the President of the Organizing Committee of the International Meeting "The Practice of Mathematics in Portugal" (Óbidos, Portugal, November 2000).

He was the President of the Organizing Committee of the International Meeting on the History of Differential Equations (Lisbon, June 2001), organized with Professor Christian Gilain (Paris VI) and Professor Thomas Archibald (Acadia University, Canada)

He was the President of the Organizing Committee of the Third International Meeting "Portugal and East Ásia, which he organized together with Professors Catherine Jami, (CNRS, Paris) and Sasaki Chikara (University of Tokyo), and which took place in the University of Tokyo in August 2005.

With Professors Sérgio Nobre (UNESP, Brazil) and Elena Ausejo (University of Zaragoza, Spain) he organized a session of the International Committee for the History of Mathematics in the XXIIIrd International Congress of Mathematicians, which took place in Madrid (August 2006), on "Ibero-American mathematics in the 19th and 20th centuries"

He was the coordinator of the Organizing Committee of the International Meeting "António Aniceto Monteiro, on the centenary of his birth", which took place in the Science Museum of Lisbon University in June 2007.

He was the national coordinator of the Organizing Committee, and the coordinator in Portugal of the Scientific Committee of the 5th Luso-Brazilian Meeting on the History of Mathematics, which took place in Castelo Branco, Portugal, October 2007.

He was the President of the Organizing Committee of the 4<sup>th</sup> International Colloque “History of Mathematical Sciences: Portugal and East Ásia”, which he organized with Professors Catherine Jami (CNRS) and Liu Dun (Institute of History of Natural Science, CAS, Beijing), which took place in Beijing in November 2008.

He was a member of the organizing Committee of the International Meeting “Mira Fernandes and his Time” which took place in Lisbon in June 2009.

He was the President of the Organizing Committee of the International Meeting “History of Astronomy in Portugal: Institutions, Theories, Practices”, which took place in Lisbon in September 2009.

### **III. MEETINGS ATTENDED**

- 1) Colloque - Atelier "Physique et Analyse de Newton a Gauss" - Luminy, Marseille, 6 to 10 July 1987.
- 2) First Franco - Italian Colloquium on History of Mathematics.  
Ars Analytica - de l'art analytique (1591) à l'analyse algébrique (1821).  
Luminy, Marseille, September 28 to October 2, 1987.
- 3) Colloquium: José Anastácio da Cunha (1744-1787): o Matemático e o Poeta - Lisbon, 8 to 10 October 1987.
- 4) Joint I.U.H.P.S. Conference - Scientific Revolutions - Coimbra, 18 to 22 April 1988.
- 5) Giornate di Stori della Matematica - Cetraro, Cosenza, 8 to 12 September 1988.
- 6) Autumn School of the Portuguese Society of Mathematics - Lisbon, 8 to 11 November 1988.
- 7) Symposium International Cauchy et le monde mathématique français - Paris, 27 to 29 July 1989.

- 8) XVIIIth International Congress of History of Science (I.C.H.S.) - Hamburg and Munich, 1 to 9 August 1989.
- 9) First Summer School of History of Mathematics - Évora, 16 to 20 July, 1990 (Chairperson of the Organizing Committee)
- 10) Equadiff 91 - Barcelona, 26 to 31 August 1991.
- 11) Renaissance mathematics -Pembroke College, Cambridge, 12 to 14 September 1991.
- 12) European Mathematics 1848-1939 - Gonville and Caius College, Cambridge, 11 to 13 September 1992.
- 13) Iberia in the Golden Age - Imperial College, London, March 31 to April 3, 1993.
- 14) Second Gauss Simposium - Ludwig-Maximilians-Universität, Munich, 2 to 7 August 1993.
- 15) XIXth International Congress of History of Science (I.C.H.S.) - Zaragoza, 22 to 29 August 1993.
- 16) First Luso-Brazilian Meeting on the History of Mathematics - Coimbra, August 31 to September 3, 1993 (Chairperson of the Organizing Committee).
- 17) Vth International Spring School - Nonlinear Analysis, Function Spaces and Applications - Prague, 22 to 28 May 1994.
- 18) International Meeting of the HPM - Blumenau, Brazil, 25 to 27 July 1994.
- 19) Internacional Meeting "History of Mathematical Sciences: Portugal and East Asia"- Arrábida, 2 to 4 November 1995 (Chairperson of the Organizing Committee).
- 20) Meeting "Mathematics in the Real World" - Pembroke College, Cambridge, 13 to 15 September 1996.

- 21) Second Luso-Brazilian Meeting on the History de Mathematics - Águas de S. Pedro, S. Paulo, Brazil, 23 to 26 March 1997.
- 22) Meeting "The Society of Jesus and the Missions in the East" - Lisbon, 21 to 23 April 1997.
- 23) XXth Internacional Congress on the History of Sciences (I.C.H.S.) - Liège, Bèlgium, 20 to 26 July 1997.
- 24) Meeting "Ubiratan D'Ambrósio" - Rio Claro, S. Paulo, 8 December 1997.
- 25) First Luso-Chinese Symposium "Nonlinear Evolution Equations and Applications"- University of Macau, 6 to 9 October 1998.
- 26) International Conference "History of Mathematical Sciences: Portugal and East Asia II": Scientific Practices and the Portuguese Expansion in Asia (1498-1759) - University of Macau, 10 to 12 October 1998 (Chairperson of the Organizing Committee).
- 27) ICMI Study Conference "On the teaching and learning of Mathematics at University level" - Singapore, 8 to 12 December 1998.
- 28) Third Meeting of the Brazilian National Seminar for the History of Mathematics, Vitória, ES, Brazil, de 28 to 31 March 1999.
- 29) Nonlinear Parabolic Problems, workshop included in the series Nonlinear Partial Differential Equations and Applications, Complexo II, University of Lisbon, 13 to 16 May 1999.
- 30) Ninth International Conference on the History of Science in East Asia, Singapore, 23 to 27 August 1999.
- 31) Laplace et son Temps, Archives du Calvados, Caen, France, 12 to 14 October 1999.
- 32) Mathematics and its Role in Civilization, University of Macao, 11 to 14 January 2000.

- 33) Third Luso-Brazilian Meeting on the History de Mathematics - Coimbra, 7 to 12 February 2000.
- 34) Regional Meeting of the Portuguese Society of Mathematics - Ponta Delgada, Azores Islands, 14 to 16 September 2000.
- 35) The Practice of Mathematics in Portugal, Óbidos, Portugal, 16 to 18 November 2000 (Chairperson of the Organizing Committee)
- 36) Fourth Meeting of the Brazilian National Seminar for the History of Mathematics, Natal, Rio Grande do Norte, Brazil, de 8 to 11 April 2001.
- 37) International Meeting on the History of Differential Equations, Lisbon, 28 to 30 June 2001 (Chairperson of the Organizing Committee)
- 38) XXIth International Congress of History of Science (I.C.H.S.) – México City, 8 to 14 July 2001.
- 39) Partial Differential Equations and Function Spaces - School of Mathematical Sciences, Sussex University, Falmer, Brighton, England, 21 and 22 September 2001.
- 40) Topics of Regularity in Partial Differential Equations – University of Lisbon, 8 to 10 November 2001.
- 41) Celebration of the 150th aniversario of Francisco Gomes Teixeira, Oporto Faculty of Sciences, November 30, 2001.
- 42) International Conference on Nonlinear Partial Differential Equations Theory and Approximation – City University of Hong Kong, 29 August to 2 September 2002.
- 43) International Meeting “Pedro Nunes and the Science of the 16th century”– University of Coimbra, 8 to 10 November 2002.
- 44) Vth National Seminar of the History of Mathematics in Brazil– Paulista State University UNESP, Rio Claro, Brazil, 13 to 16 de April 2003.
- 45) International Conference on Trends in Partial Differential Equations of Mathematical Physics, Óbidos, 7 to 10 June 2003.

- 46) XIIIth National Meeting on Astronomy and Astrophysics – University of Coimbra, 26 to 29 July 2003.
- 47) XIIIth Research Meeting on Mathematical Education “History of Mathematical Education in Portugal”- Beja, 2 to 4 May, 2004
- 48) 4th Luso-Brazilian Meeting on History of Mathematics – Natal, Rio Grande do Norte, 24 to 27 October 2004.
- 49) Workshop “The History of Differential Equations, 1670-1950”, Oberwolfach, Germany, 31 October to 6 November 2004.
- 50) ESF Exploratory Workshop “Sciences in Ásia: Representations and Historiography, 17th to 20th Centuries”, Cambridge, England, 12 to 16 January 2005.
- 51) XXIIth International Congress of History of Science (I.C.H.S.), Beijing, China, 24 to 30 July 2005.
- 52) International Conference "History of Mathematical Sciences: Portugal and the East III: The Jesuits, the Padroado, and East Asian Science", University of Tokyo, Komaba Campus, Japan, 4 to 7 August 2005.
- 53) XXVth Meeting of the Portuguese Association for Economic and Social History, Évora University, 18 to 19 November 2005.
- 54) Hommage to Ruy Luis Gomes, Porto University, 5 December 2005.
- 55) IAS-NRI Meeting: Europe, Ásia, and Science: Comparisons, Exchanges and Representation, Leiden, 15 to 16 May 2006.
- 56) XXIIIth International Congress of Mathematicians, Madrid, 22 to 30 August 2006.
- 57) 2nd International Conference of the European Society for the History of Science, Cracow, 6 to 9 September 2006.
- 58) Colloque José Anastácio da Cunha, Braga, 14 and 15 December 2006.
- 59) Colloquium António Aniceto Monteiro, on the centenary of his birth, Lisboa, June 4 and 5, 2007.
- 60) 5th Luso-Brazilian Meeting on the History of Mathematics, Castelo Branco, October 3 to 7, 2007 .
- 61) MedAsia, Transmission of Scientific Knowledge between Ásia and the

Mediterranean, Barcelona, November 27 and 28, 2007.

- 62) Sciences in Brazil under King João VI, Oswaldo Cruz Foundation, Rio de Janeiro, August 18 to 20, 2008.
- 63) XXVII Symposium of the Scientific Instruments Commission, Science Museum of the University of Lisbon, September 16 to 21, 2008.
- 64) International Colloquium Tomás Pereira, S.J. (1645-1708) Life, Work and World, Macao's Scientific and Cultural Centre, Lisbon, October 13 to 15, 2008.
- 65) International Conference "History of Mathematical Sciences: Portugal and the East IV: Portugal and East Asia IV/Europe and China: Science and Arts in 17-18 Centuries", Beijing, People's Republic of China, November 5 to 8, 2008.
- 66) Eighth National Seminar for the History of Mathematics, Belém do Pará, Brazil, April 5 to 8, 2009
- 67) XXIII International Congress of History of Science and Technology, Budapest, Hungary, July 28 to August 2, 2009.
- 68) Mathématiques et Périodiques: problématiques et méthodes, Luminy, France, September 7 to 11, 2009.

#### IV. SEMINARS AND TALKS

All talks in English except where noted.

1. Removable singularities and quasilinear parabolic equations, University of Santiago de Compostela, November 1986.
2. Solutions of degenerate quasilinear parabolic equations (in Portuguese), CMAF seminar, Lisbon, April 1987.
3. On the mathematical works of José Anastácio da Cunha (in Portuguese), several talks in secondary schools in the Greater Lisbon area, part of the dissemination of his work to general audiences done by the Organizing Commission to Honour José Anastácio da Cunha, 1987.

4. The " Historical essay on the origins and development of Mathematics in Portugal" by F. Garção Stockler (in Portuguese) - Second Meeting of the National Seminar of History of Mathematics, Lisbon, November 1988.
5. "Sur les Vrais Principes du Calcul des Fluxions "de F. Garção Stockler, (in Portuguese) Third Meeting of the National Seminar of History of Mathematics, Lisbon, March 1989.
6. F. Garção Stockler and the first History of the Mathematics in Portugal, XVIIIth Internacional Congress of History of Science, Hamburg, August 1989.
7. The beginnings of Scientific Cosmology: Greek Astronomy (in Portuguese), Second Meeting of Mathematics and Computing Sciences, Lusíada University, Lisbon, June 1990.
8. Sur les conditions de production de la première Histoire des Mathématiques Portugaises, (in French), First Summer School of History of Mathematics, Évora, July 1990.
9. History of mathematics in Portugal (in Portuguese), Escola Secundária Jaime Moniz, Funchal, March 1991.
10. Some problems on removable singularities of elliptic and semi-elliptic equations, Equadiff 91, Barcelona, August 1991.
11. Laplace's collaboration with Lavoisier on the quantification of heat, Open University, Milton Keynes, May 1992.
12. Mathematics and Mathematicians in Portugal 1851-1950 (with A. Franco de Oliveira), Colloquium European Mathematics 1848-1939, Cambridge, September 1992.

13. Scientific Institutions and Portuguese Mathematics during the XIXth Century (in Portuguese), Fifth Meeting of the National Seminar of History of Mathematics, Lisbon, March 1993.
14. Portuguese Historians of Mathematics, XIXth Internacional Congress of History of Sciences, Zaragoza, August 1993.
15. Rodolfo Guimarães and "Les Mathematiques en Portugal" (in Portuguese), First Luso-Brasilian Meeting of History of Mathematics, Coimbra, August/September 1993.
16. Rodolfo Guimarães, mathematician and historian (in Portuguese), VIth Meeting of the National Seminar of History of Mathematics, Lisbon, May 1994.
17. José Anastácio da Cunha and Portuguese Mathematics (in Portuguese), Minho University, Braga, June 1994.
18. Historiography of Mathematics in the Works of Rodolfo Guimarães, International HPM Meeting, Blumenau, Brazil, July 1994.
19. Anisotropic Spaces and Quasilinear equations (in Portuguese), Seminário do CMAF, Lisboa, Complexo II, Dezember 1994.
20. Report on the National Seminar for the History of Mathematics (1988-1996) (in Portuguese), VIIIth Meeting of the National Seminar for the History of Mathematics, Porto, July 1996.
21. Removable Singularities of solutions of degenerate quasilinear equations, (in Portuguese), University of Aveiro, January 1997.
22. Garção Stockler and the "Plano de Instrução Publica do Brazil" (in Portuguese), Second Luso -Brasilian Meeting on the History of Mathematics, Águas de S. Pedro, S. Paulo, Brasil, March 1997.

23. The Society of Jesus and the Historians of Portuguese Mathematics (in Portuguese), Meeting "The Society of Jesus and the Missions in the East", Lisbon, April 1997.
24. Pedro José da Cunha (1867-1945), Historian of Portuguese Mathematics, XXth Internacional Congress on the History of Science, Liège, Belgium, July 1997.
25. Pedro José da Cunha and the "Bosquejo Histórico das Matemáticas em Portugal" (in Portuguese), IXth Meeting of the National Seminar for the History of Mathematics, Coimbra, November 1997.
26. A Surview on Mathematics in Portugal in the XIXth Century (in Portuguese), Meeting "Ubiratan D'Ambrósio", Rio Claro, S. Paulo, December 1997.
27. Garção Stockler in Brasil (1812-1821), (in Portuguese), Xth Meeting of the National Seminar for the History of Mathematics, Universidade Nova, Monte da Caparica, January 1998.
28. Removable singularities of non-bounded solutions of quasilinear parabolic equations, First Luso-Chinese Symposium "Nonlinear Evolution Equations and Applications", University of Macau, October 1998.
29. A Portuguese Mathematician in Brazil: Francisco de Borja Garção Stockler and "Methodo Inverso dos Limites, ou desenvolvimento das funções algorithmicas" (1819-1824), (in Portuguese), Third Meeting of the Brazilian National Seminar for the History of Mathematics, Vitória, ES, Brazil, March 1999.
30. Francisco de Borja Garção Stockler and the Theory of Limits, (in Portuguese), Santa Úrsula University, Rio de Janeiro, April 1999.
31. Francisco de Borja Garção Stockler and the "Compendio da Theorica dos Limites" (1794), (in Portuguese), Mathematics Department of the State University of S. Paulo, Rio Claro, S. Paulo, April 1999.

32. The College of S. Paulo in Macao: a background (16th and 17th centuries), Ninth International Conference on the History of Science in East Asia, Singapore, August 1999.
33. Aspects de la collaboration de Laplace et de Lavoisier dans la quantification de la chaleur, (in French) Laplace et son Temps, Archives du Calvados, Caen, France, October 1999.
34. Mathematics and World-vision in the 16th Century, Mathematics and its Role in Civilization, University of Macao, January 2000.
35. Astronomy in the Nautics of the Portuguese Navigation during the XVth and the XVIth centuries, (in Portuguese), Third Luso-Brazilian Meeting on the History of Mathematics, Coimbra, February 2000.
36. Aspects of Greek Geometry, (in Portuguese), Exhibition Visual Thought Exercises, Third Mathematics Workshop, Department of Mathematics of Coimbra University, March 2000.
37. The beginnings of nautical navigation in Portugal, (in Portuguese), Regional Meeting of the Portuguese Society of Mathematics, Ponta Delgada, Azores Islands, September 2000.
38. Aspects of the Historiography of Mathematics in Portugal, The Practice of Mathematics in Portugal, Óbidos, Portugal, November 2000.
39. Uma tentativa de fundamentação da Análise Matemática a partir da teoria dos limites em fins do século XVIII, (in Portuguese) Fourth Meeting of the Brazilian National Seminar for the History of Mathematics, Natal, Rio Grande do Norte, Brazil, April 2001.
40. Historiography of Mathematics in Portugal, (in Portuguese), Science Museum, Lisbon, June 2001.

41. Garção Stockler and the Rio de Janeiro Royal Military Academy, XXIth International Congress of History of Science, Mexico City, Mexico, July 2001.
42. Garção Stockler's Textbook on the Theory of Limits, Open University, Milton Keynes, England, September 2001.
43. Gomes Teixeira and his work on partial differential equations, (in Portuguese).  
Mathematics Centre of the University of Oporto, Sciences Faculty, November 2001
44. Removable singularities and quasilinear parabolic equations with an exponential term, International Conference on Nonlinear Partial Differential Equations Theory and Approximation – City University of Hong Kong, 29 August to 2 September 2002.
45. Francisco Gomes Teixeira, Mathematician and Historian (1851-1933), (in Portuguese).  
Vth National Seminar for the History of Mathematics of Brazil, – Paulista State University, UNESP, Rio Claro, Brazil, April 2003.
46. Removable singularities and quasilinear parabolic equations, International Conference on Trends in Partial Differential Equations of Mathematical Physics, Óbidos, June 2003.
47. Garção Stockler e a reestruturação da Instrução Pública: uma oportunidade perdida – (in Portuguese), XIIIth Research Meeting on Mathematical Education, Beja, May 2004.
48. Garção Stockler: Historiador e Matemático (1759-1829), (in Portuguese) Federal University of Rio de Janeiro, October 2004.
49. The beginnings of the scientific research of Francisco Gomes Teixeira (1851-1933), (in Portuguese), 4th Luso-Brazilian Meeting on the History of Mathematics, Natal, Rio Grande do Norte, Brazil, October 2004.
50. Mathematics in the 19th century journals of the Lisbon Academy of Sciences, XXII<sup>o</sup> International Congress on the History of Sciences, Beijing, China, July 2005.
51. The Jesuit Mathematicians of the Portuguese assintancy and the Portuguese historians

- of mathematics (1819-1940), 3<sup>rd</sup> International Meeting “Portugal and East Asia”, University Tokyo, Japan, August 2005.
52. Portuguese Mathematics in the XIX century (in Portuguese), MAST, Rio de Janeiro, Brazil, March 2006.
  53. Removable singularities in quasilinear parabolic equations (in Portuguese), State University of S. Paulo, Rio Claro, Brazil, March 2006.
  54. Perspectives on the historiography of the History of Mathematics (in Portuguese), Campinas State University, Brazil, March 2006.
  55. Garção Stockler e a Instrução Pública no Brasil, (in Portuguese), State University of S. Paulo, Rio Claro, Brazil, April 2006.
  56. A Matemática nas Publicações Periódicas de Investigação em Portugal no século XIX, (in Portuguese), History and Philosophy of Sciences Study Center, University of Évora, May 2006.
  57. História da Matemática-Perspectivas sobre o seu desenvolvimento histórico enquanto disciplina científica em Portugal, (in Portuguese), XIXth Meeting of the National Seminar for the History of Mathematics, University of Aveiro, June 2006.
  58. The beginnings of the Royal Military Academy of Rio de Janeiro, 1810-1822, session of the ICHM in ICM 2006, Madrid, August 2006.
  59. The Lisbon Academy of Sciences and the development of mathematics in Portugal in the 19th century, 2nd International Conference of the European Society for the History of Science, Cracow, September 2006.
  60. La Balistique de Galilée (1780): a prática e a teoria da balística em José Anastácio da Cunha, (in Portuguese), Colloquium José Anastácio da Cunha, University of Minho, Braga, December 2006 (with Carlos Sá, Oporto University).
  61. Uma carta de José Anastácio da Cunha, (in Portuguese), Colloque José Anastácio da Cunha, University of Minho, Braga, December 2006 .
  62. The beginnings of the Royal Military Academy of Rio de Janeiro (in Portuguese), Centre for the History of Sciences of the Faculty of Sciences of Lisbon, April 2007.
  63. António Aniceto Monteiro, in the centenary of his birth (in Portuguese), 5th Luso-

- Brazilian History of Mathematics meeting, Castelo Branco, October 2007.
64. The Project "History of Mathematical Sciences: Portugal and East Asia", MedAsia, Barcelona, November 2007.
  65. The first twenty years of the National Seminar for the History of Mathematics (1988-2008) (in Portuguese), 21<sup>st</sup> Meeting of the National Seminar for the History of Mathematics, Porto, March 2008.
  66. Gomes Teixeira and His work on partial differential equations (in Portuguese) UNESP, Rio Claro, Brazil, August 2008.
  67. António Aniceto Monteiro and his relevance in the ibero-american scientific community, (in Portuguese), UNICAMP, Department of Logic, Campinas, Brasil, August 2008.
  68. Mathematics in the beginnings of the Royal Military Academy in Rio de Janeiro (1810-1820), Seminar "Sciences in Brazil during D. João" As Ciências no Brasil no Período Joanino", Oswaldo Cruz Foundation, Rio de Janeiro, Brazil, August 2008.
  69. Manoel Ferreira de Araújo Guimarães (1777-1838) and the Royal Military Academy of Rio de Janeiro, VIII<sup>o</sup> National Seminar for the History of Mathematics, Belém do Pará, Brazil, April 2009.
  70. .Da Cunha, Stockler, and mathematical analysis in Portugal in the period 1770-1820, XXIII International Congress of History of Science and Technology, Budapest, Hungary, July 28 to August 2, 2009.
  71. The journals of the Lisbon Academy of Sciences in the 19<sup>th</sup> century, Colloque International Mathématiques et Périodiques: problématiques et méthodes, Luminy, France, September 2009.
  72. Mathematics in the Memoires of the Lisbon Sciences Academy during the 19<sup>th</sup> Century, (in Portuguese), Lisbon Academy of Sciences, A new look on the history of Science in Portugal., December 2009.
  73. Mathematical Analysis in Portugal in the Period 1770-1820, Institute for the History and Philosophy of Science and Technology, University of Toronto, January 2010.

## V. EDITOR OF INTERNATIONAL PROCEEDINGS

1. Anastácio da Cunha (1744-1787) – The Mathematician and the Poet – Proceedings of the International Colloque, followed by a selection of texts (with Professors José Francisco Rodrigues, CMAF, and Maria de Lurdes Ferraz, FLL), Imprensa Nacional/Casa da Moeda, Estudos Gerais, Série Universitária, 1990 (Joint editor with José Francisco Rodrigues).
2. History of Mathematical Sciences: Portugal and East Asia, Orient Foundation, 2000.
3. History of Mathematical Sciences: Portugal and East Asia II, EMAF-UL, 2001; 2nd edition: World Scientific, London/Singapore, 2004..
4. The Practice of Mathematics in Portugal, Press of Coimbra University, 2004 (Joint editor with Henrique Leitão, CFMC).
5. History of Mathematical Sciences: Portugal and East Asia III. The Jesuits, the Padroado and East Asian Science (1552-1773), World Scientific, London/Singapore, 2008. (Joint Editor with C. Jami, CNRS)
6. António Aniceto Monteiro, Proceedings of the Centenary Colloquium, Bulletin of the Portuguese Society of Mathematics, special issue, 2008 (Invited editor).

## VI. SCIENTIFIC PUBLICATIONS

### On Functional Analysis and Partial Differential Equations:

1. Minimax solutions of systems of differential equations (in Portuguese), graduate dissertation, Faculty of Sciences of Lisbon, 1973.
2. Removable singularities and quasilinear parabolic equations, Proc. London Math. Soc. (3), 48 (1984), pp. 385-400.

3. Removable singularities and quasilinear parabolic equations, Ph.D. thesis, University of Sussex, 1985.
4. Removable singularities of solutions of degenerate quasilinear equations, Ann. Mat. Pura Appl. (IV), vol CXLI, (1985), pp 187-221.
5. Singular sets of anisotropic weighted capacity zero and degenerate quasilinear parabolic equations, Proc. Royal Society of Edinburgh, 126A (1996), pp. 209-224.
6. Removable singularities of non-bounded solutions of quasilinear parabolic equations, Proceedings of the First Luso-Chinese Symposium "Nonlinear Evolution Equations and Applications"- World Scientific, Singapore, 1998, pp. 213-224.
7. Removable singularities and quasi-linear parabolic equations with exponential growth, Proceedings of the Royal Society of London, A (2004) **460**, pp. 1093-1105.

**On History of Mathematics:**

1. F. Garção Stockler and the first History of Mathematics in Portugal, Archives Internationales d'Histoire des Sciences, vol. 42, 128 (1992), pp. 76-86.
2. On the first History of Portuguese Mathematics, Historia Mathematica, vol. 20, 4 (1993), pp. 415-427.
3. Rodolfo Guimarães and "Les Mathematiques en Portugal " (in Portuguese), Proceedings of the first Luso-Brazilian Meeting on History of Mathematics, DMUC, Coimbra, 1993, pp. 37-57.
4. The First Outline in Portugal of a University Course in the History of Mathematics, Proceedings of the International Meeting of the HPM, Blumenau\Brasil, 1994, pp. 109-118.
5. Laplace's collaboration with Lavoisier on the quantification of heat, Physis, vol. XXXIV (1997) Nuova Serie, pp. 99-137.

6. Historiography of Mathematics in the Works of Rodolfo Guimarães, *Historia Mathematica*, vol.24 (1997), pp. 86-97.
7. Garção Stockler e o "Projecto sobre o estabelecimento e organização da Instrução Publica no Brazil", (in Portuguese). Proceedings of the Second Luso -Brazilian Meeting on the History of Mathematics, Águas de S. Pedro, S. Paulo, Brasil, 1997, pp. 25-43.
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