

# **CURRICULUM VITÆ**

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**ANA SIMÕES**

Sep 2015

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**FACULTY OF SCIENCE  
UNIVERSITY OF LISBON**

**NAME:** Ana Isabel da Silva Araújo Simões. Professional name: Ana Simões

**PLACE AND DATE OF BIRTH:** Lisboa, 13 October 1958

**MARITAL STATUS:** married with 2 children (daughter born on 23 September 1983, son born on 4 January 1994)

**NATIONALITY:** Portuguese

**INSTITUTIONAL ADDRESS:** Secção Autónoma de História e Filosofia das Ciências, Faculdade de Ciências da Universidade de Lisboa, Campo Grande, C4, Piso 3, 1749-016 Lisboa, Portugal.

**RESEARCH CENTRE:** CIUHCT-Centro Interuniversitário de História das Ciências e da Tecnologia (Pólo Universidade de Lisboa), Faculdade de Ciências da Universidade de Lisboa, Campo Grande, C4, Piso 3, 1749-016 Lisboa, Portugal.

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**Researcher ID:** G-4890-2015

## **ACADEMIC BACKGROUND**

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- *Agregação* in History and Philosophy of Science, University of Lisbon, 28 February 2004 (unanimity).
- PhD Equivalence in History and Philosophy of Science, University of Lisbon, 28 September 1993.
- PhD in History with a Specialization in History and Philosophy of Science, University of Maryland at College Park, USA, May 1993, Supervisor: Stephen G. Brush. Title of Dissertation: *Converging Trajectories, Diverging Traditions: Chemical Bond, Valence, Quantum Mechanics and Chemistry, 1927-1937*.

- Exam of Pedagogic Aptitude and Scientific Capacity, Department of Physics, Faculty of Sciences of the University of Lisbon, 1986. Mark: Very Good (highest mark). Pedagogical exam: *A revolução copernicana*. Scientific capacity dissertation: *A história da teoria cinética dos gases: raízes, triunfos, malogros e peripécias de uma doutrina física*. Supervisor: João Luís Andrade e Silva.
- Graduation in Physics (research branch), Faculty of Sciences, University of Lisbon, 1981. Mark: 17,4 (out of 20).

## **MAIN RESEARCH FIELD AND AREAS OF INTEREST**

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- History of Physical Sciences, 19<sup>th</sup>-20<sup>th</sup> centuries
- History of Quantum Chemistry
- History of Science in Portugal, 18<sup>th</sup>- 20<sup>th</sup> centuries
- History of Science in the European Periphery
- History of Popularization of Science
- History of Universities

## **LANGUAGES**

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- Native language: Portuguese
- Fluent in English and French
- Understanding of Spanish and Italian, both spoken and written

## **PROFESSIONAL CAREER**

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- Associate Professor with *Agregação* in History and Philosophy of Science, Unit for the History and Philosophy of Science, Faculty of Sciences of the University of Lisbon, since June 2013.
- Assistant Professor with *Agregação* in History and Philosophy of Science, Unit for the History and Philosophy of Science, Faculty of Sciences of the University of Lisbon, since its creation in Nov 2007.

- Assistant Professor with *Agregação* in History and Philosophy of Science, Department of Physics, Faculty of Sciences of the University of Lisbon, Mar 2004-Nov 2007.
- Assistant Professor with tenure, Department of Physics, Faculty of Sciences of the University of Lisbon, Sep 1998- Mar 2004.
- Assistant Professor with exclusivity, Department of Physics, Faculty of Sciences of the University of Lisbon, Sep 1993- Sep 1998.
- Teaching Assistant, Department of History, University of Maryland at College Park, Sep 1989- May 1991.
- Teaching Assistant (Assistente), Department of Physics, Faculty of Sciences of the University of Lisbon, Jul 1986-Sep 1993.
- Teaching Assistant (Assistente Estagiária), Department of Physics, Faculty of Sciences of the University of Lisbon, Apr 1982- Jul 1986
- Teaching Assistant (Assistente Estagiária), Department of Mathematics, Technical Institute (Instituto Superior Técnico), Technical University of Lisbon, Oct 1981- Apr 1982.

## **1. RESEARCH ACTIVITIES**

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### **PUBLICATIONS**

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#### BOOKS AND EDITED VOLUMES

1. Theodore Arabatzis, Jürgen Renn, Ana Simões, eds., *Relocating the History of Science. Volume in Honor of Kostas Gavroglu* (Springer: Boston Studies in the Philosophy and History of Science, 2015).
2. Ana Simões, Maria Paula Diogo, Kostas Gavroglu, eds. *Sciences in the Universities of Europe, 19th and 20th centuries. Academic Landscapes* (Springer: Boston Studies in the Philosophy and History of Science, 2015).

3. Ana Simões, Ana Carneiro, Maria Paula Diogo, Luís Miguel Carolino, Teresa Salomé Mota, *Uma história da Faculdade de Ciências de Lisboa (1911-1974)*, (2013).  
Book Review: Agusti Nieto-Galan, *HoST* 7 (2013).
4. Ana Simões, ed., *Communicating Science, Technology and Medicine*, *HoST*, 6 (2012).
5. Kostas Gavroglu, Ana Simões, *Neither physics nor chemistry. A history of quantum chemistry* (Cambridge, Mass.: MIT Press, 2012, second reprinting 2014).  
Book Reviews: Mansoor Diaz, *Science and Education* (May 2012), DOI: 10.1007/s11191-012-9476-2; Brian T. Sutcliffe, *HYLE*, 18 (1) (May 2012), 91-4; A. Viste, 49 (10) (June 2012) *Choice*, 5680; Alán Aspuru-Guzik, 65 (8) (August 2012) *Physics Today*, 52; Dennis Rouvray, *Chemistry and Industry* (October 2012), 47; Jeffrey Kovac, *Journal of Chemical Education* 89 (2012), 1485-6; Joel F. Liebman, *Molecular Crystals and Liquid Crystals* 569 (1) (2012), 163-4; Itamar Borges Jr., *Resenha. Revista Virtual de Química* 4(2) (2012), 193-4; Carmen J. Giunta, *Bulletin for the History of Chemistry* 37(2) (2012), 103-5; *Historical and Philosophical Perspectives on Quantum Chemistry*, *Metascience* 22 (2013), 523-44; José Ramon Bertomeu Sanchez, *HoST* 7 (2013); Helge Kragh, *Nuncius* 28 (1) (2013), 235-7; Andrew Ede, *Canadian Journal of History*, 48 (2013), 406-8; Mary Jo Nye, *Ambix* 60 (1) (2013), 88-90; Jean-Pierre Llored, *Foundations of Chemistry* (2014), on-line, forthcoming (2015).
6. Ana Simões, ed., *Novas Memórias de Professores Cientistas* (Lisboa: FCUL, 2011).
7. Ana Simões, Maria Paula Diogo, Ana Carneiro, *Cidadão do Mundo. Uma biografia científica do Abade Correia da Serra* (Porto: Porto Editora, 2006).  
Book reviews: José Luís Cardoso, 2 (2008) *HoST* (<http://johost.eu/?oid=74&act=&area=9&ri=2&itid=2>); Benjamin B. Olshin, *ISIS* 99 (3) (2008), 628-9.  
English translation: Ana Simões, Maria Paula Diogo, Ana Carneiro, *Citizen of the world. A scientific biography of Abbé Correia da Serra* (University of California, Berkeley: Institute of Governmental Studies Press, 2012).

8. Ana Carneiro, Maria Paula Diogo, Ana Simões, eds., *José Francisco Correia da Serra: Investigações Botânicas* (Porto: Porto Editora, 2003).
9. Ana Simões, Ana Carneiro, Maria Paula Diogo, eds., *Travels of Learning. A Geography of Science in Europe* (Dordrecht: Kluwer Academic Publishers, 2003).
10. Ana Simões, Ana Carneiro, Maria Paula Diogo, eds., *José Francisco Correia da Serra: Itinerários Histórico-Naturais* (Porto: Porto Editora, 2003).
11. Ana Simões, ed., *Memórias de Professores Cientistas. Os 90 anos da FCUL, 1911-2001* (Lisboa: FCUL, 2001).
12. Ana Simões, *Converging Trajectories, Diverging Traditions: Chemical Bond, Valence, Quantum Mechanics and Chemistry, 1927-1937*, PhD Dissertation, University Microfilms Inc., Publication # 9327498 (University of Maryland, 1993).

#### INTERNATIONAL JOURNALS

13. Pedro M.P. Raposo, Ana Simões, Manolis Patiniotis, José Ramon Bertomeu-Sánchez, “Moving Localities, and Creative Circulation: Travels as Knowledge Production in 18<sup>th</sup> century Europe,” *Centaurus*, 56 (2014), 167-188.
14. Ana Simões, Luís Miguel Carolino, “The Portuguese astronomer Melo e Simas (1870-1934). Republican ideals and popularization of science”, *Science in Context*, 27(1) (2014), 49-77.
15. Ana Simões, Kostas Gavroglu, “P.-O. Löwdin and the *International Journal of Quantum Chemistry*. A kaleidoscopic agenda for quantum chemistry,” *International Journal of Quantum Chemistry*, 114(2) (2014), 116-27.
16. Ana Carneiro, Ana Simões, Maria Paula Diogo, Teresa Salomé Mota, “Geology and religion in Portugal”, *Notes and Records of the Royal Society of London*, 67(4) (2013), 331-54.

17. Ana Simões, Isabel Zilhão, Maria Paula Diogo, Ana Carneiro, “Halley turns Republican. How the Portuguese press perceived the 1910 return of Halley’s comet”, *History of Science li* (2013), 199-219.
18. Ana Simões, “Introduction: Communicating science, technology and medicine, *HoST* 6 (2012), 9-14.
19. Ana Simões, Maria Paula Diogo, Ana Carneiro, “Physical Sciences in Lisbon”, *Physics in Perspective*, 14 (2012), 335-367.
20. Kostas Gavroglu, Ana Simões, “From physical chemistry to quantum chemistry. How chemists dealt with mathematics”, *HYLE* 18(1) (2012), 45-69.
21. Luís Miguel Carolino, Ana Simões, “The eclipse, the astronomer and his audience: Frederico Oom and the total solar eclipse of 28 May 1900 in Portugal,” *Annals of Science*, 69 (2) (2012), 215-238.
22. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Riding the wave to reach the masses: natural events in early twentieth century Portuguese daily press” *Science and Education*, 21(3) (2012), 311-333.
23. Júlia Gaspar, Ana Simões “Physics on the Periphery: A Research School at the University of Lisbon under Salazar’s Dictatorship (1929-1947)”, *Historical Studies in the Natural Sciences*, 41 (3) (2011), 303-43.
24. Júlia Gaspar, Maria do Mar Gago, Ana Simões, “Scientific life under the Portuguese dictatorial regime (1929-1954): the communities of geneticists and physicists,” *HoST*, 2-3 (2009)  
<http://johost.eu/?oid=90&act=&area=6&ri=2&itid=3>
25. Ana Simões, “Relaciones Peligrosas o asociaciones inevitables: la química cuántica en la encrucijada de la química, la física y las matemáticas”, *Anales de la Real Sociedad Española de Química*, 105 (2009), 319-327.

26. Elsa Mota, Paulo Crawford, Ana Simões, “Einstein in Portugal. Eddington’s 1919 expedition to Principe and the reactions of Portuguese astronomers (1917-1925)”, *British Journal for the History of Science*, 42 (2) (2009), 245-73.
27. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Perspectives on Contemporary History of Science in Portugal,” *Nuncius*, 23 (2) (2008), 237-263.
28. Ana Simões, “A quantum chemical dialogue mediated by textbooks: Pauling’s *The Nature of the Chemical Bond* and Coulson’s *Valence*,” *Notes and Records of the Royal Society of London*, 62 (2008), 259-269.
29. Kostas Gavroglu, Manolis Patiniotis, Faidra Papanelopoulou, Ana Simões, Ana Carneiro, Maria Paula Diogo, Jose Ramon Bertomeu-Sánchez, Antonio Garcia Belmar, Agusti Nieto-Galan, “Science and technology in the European periphery. Some historiographical reflections”, *History of Science*, 46 (2008), 153-175.
30. Ana Simões, “In between worlds: G.N. Lewis, the shared pair bond and its multifarious contexts”, *Journal of Computational Quantum Chemistry*, 28 (2007), 62-72.
31. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Issues in the Historiography of science in Portugal. A look from the standpoint of four case studies”, *Neusis*, 15 (2006), 17-39 (in Greek)
32. Ana Carneiro, Maria Paula Diogo, Ana Simões, “Communicating the new chemistry in 18<sup>th</sup> century Portugal: Seabra’s *Elementos de Chimica*,” *Science and Education*, 15 (2006), 671-692.
33. Ana Simões, “Textbooks, popular lectures and sermons: the quantum chemist Charles Alfred Coulson and the crafting of science,” *British Journal for the History of Science*, 37(3) (2004), 299-342.
34. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Building the Republic of Letters: the Scientific Travels of the Portuguese naturalist Correia da Serra (1751-1823),” *Revue de la Maison Française*, 1 (2003), 33-50.



35. Ana Simões, "Dirac's claim and the chemists," *Physics in Perspective*, 4 (2002), 253-266.
36. Kostas Gavroglu, Ana Simões, "Preparing the ground for quantum chemistry to appear in Great Britain: the contributions of the physicist R.H. Fowler and the chemist N.V. Sidgwick," *British Journal for the History of Science*, 35 (2002), 187-212.
37. Maria Paula Diogo, Ana Carneiro, Ana Simões, "The Portuguese Naturalist Correia da Serra (1751-1823) and his Impact on Early Nineteenth-Century Botany," *Journal of the History of Biology*, 34 (2001), 353-393.
38. Ana Simões, Kostas Gavroglu, "Quantum Chemistry in Great Britain: Developing a Mathematical Framework for Quantum Chemistry," *Studies in the History and Philosophy of Modern Physics*, 31 (2000), 511-548.
39. Ana Carneiro, Ana Simões, Maria Paula Diogo, "Enlightenment Science in Portugal. The *Estrangeirados* and their Communication Networks," *Social Studies of Science*, 30 (2000), 591-619.
40. Maria Paula Diogo, Ana Carneiro, Ana Simões, "Sources for the History of Science in Portugal: one possible option," *Cronos*, 3 (2000), 115-142.
41. Ana Carneiro, Maria Paula Diogo, Ana Simões, Manuel Troca, "Portuguese Engineering and the colonial project in the nineteenth-century," *ICON*, 6 (2000), 160-175.
42. Ana Simões, Ana Carneiro, Maria Paula Diogo, "Constructing Knowledge: Eighteenth-century Portugal and the New Sciences," *Archimedes*, 2 (1999), 1-40.
43. Ana Simões, Kostas Gavroglu, "Quantum Chemistry *qua* Applied Mathematics. The contributions of Charles Alfred Coulson (1910-1974)," *Historical Studies in the Physical and Biological Sciences*, 29 (1999), 363-406.

44. Kostas Gavroglu, Ana Simões, “The Americans, the Germans and the Beginnings of Quantum Chemistry: The Confluence of Diverging Traditions,” *Historical Studies in the Physical and Biological Sciences*, 25 (1994), 47-110.

#### NATIONAL JOURNALS

45. Ana Simões, “O ano 1947 e o Laboratório de Física da Faculdade de Ciências de Lisboa,” *Gazeta de Física*, 34 (2) (2011), 16-21.
46. José Eduardo Franco, Ana Simões, “Universidade. Uma utopia revisitada” Introdução ao Dossiê temático. Centenário da Universidade de Lisboa, *Letras ComVida*, 3 (2011), 19-22.
47. Fernando Catarino, Ana Simões, “Flávio Resende (1907-1967)”, *Letras ComVida*, 3 (2011), 55-7.
48. Ana Simões, “Copérnico ou Galileu: um problema mal colocado”, *Gazeta de Física*, 33 (1) (2010), 12-5.
49. Paulo Crawford, Ana Simões, “O eclipse de 29 de Maio de 1919. A.S. Eddington e os astrónomos do Observatório da Tapada,” *Gazeta de Física*, 32 (2009), 22-28.
50. Ana Simões, “Equilíbrio impossível: Max Planck no período do Terceiro Reich,” *Gazeta de Física*, 31(4) (2008), 17-19.
51. Ana Simões, “Max Planck um revolucionário conservador (1858-1947),” *Gazeta de Física*, 31(3) (2008), 7-11.
52. Ana Simões, “Memórias de uma cidade renascida: Berlim, física e Max Planck,” *Gazeta de Física*, 31(1/2) (2008), 13-16.
53. Ana Simões, Júlia Gaspar, “Recordar o passado, pensar o futuro”, *Gazeta de Física*, 30 (2007), 14-16.
54. Ana Simões, “Einstein, um homem do seu tempo?” in Número especial dedicado ao Ciclo de Colóquios “A Luz de Einstein”, *Gazeta de Física*, 29 (2006), 4-7.

55. Ana Simões, “Encontros e desencontros nos primeiros cinquenta anos da química quântica,” *Boletim da Sociedade Portuguesa de Química*, Jan-Mar (2004), 11-19.
56. Ana Simões, “A reacção dos químicos à afirmação reducionista de Dirac de 1929,” *Gazeta de Física*, 25 (2002), 14-18.
57. Maria Paula Diogo, Ana Carneiro, Ana Simões, “Imagens do Portugal Setecentista-Textos de estrangeirados e de viajantes,” *Penélope-Revista de História e Ciências Sociais*, 22 (2000), 73-92.
58. Ana Simões, “Reinterpretando as Origens da Química Quântica: Mulliken-Pauling versus Heitler-London”, *Boletim HFCT-História e Filosofia da Ciência e da Técnica*, 1 (1998), 9-14.
59. Margarida Fragoso, Ricardo Laranjeiro, Olga Santo, Ana Simões, “Recordando Thomas Kuhn 1922-1996: o filósofo e o historiador das ciências, II,” *Gazeta de Física*, 21(1) (1998), 2-6.
60. Margarida Fragoso, Ricardo Laranjeiro, Olga Santo, Ana Simões, “Recordando Thomas Kuhn 1922-1996: o filósofo e o historiador das ciências, I,” *Gazeta de Física*, 20(4) (1997), 2-6.
61. Paulo Crawford, Ana Simões, “Tempo e Relatividade II,” *Gazeta de Física*, 9(3) (1986), 49-56.
62. Paulo Crawford, Ana Simões, “Tempo e Relatividade I,” *Gazeta de Física*, 9(2) (1986), 36-40.

#### CHAPTERS IN BOOKS IN INTERNATIONAL PUBLICATIONS

63. Kostas Gavroglu, Ana Simões, “Philosophical issues in (sub)-disciplinary contexts. The case of quantum chemistry,” in Grant Fischer, Erich Scerri, eds., *Oxford Handbook on the Philosophy of Chemistry* (Oxford: Oxford University Press), forthcoming.

64. Ana Simões, “History of Science and Technology in Portugal. Networking in the European Periphery,” Alex Blum, Kostas Gavroglu, Christian Joas, Jürgen Renn, eds., *Towards the History of the History of Science. Fifty years after the Structure*, MPIWG Open Access, forthcoming 2015.
65. Ana Simões, Theodore Arabatzis, Jürgen Renn, “Introduction,” in Theodore Arabatzis, Jürgen Renn, Ana Simões, eds., *Relocating the History of Science. Volume in Honor of Kostas Gavroglu*, Boston Studies in the Philosophy and History of Science, 2015, pp. 1-5.
66. Ana Simões, “Different undertakings, common practices: some directions for the history of science” in Theodore Arabatzis, Jürgen Renn, Ana Simões, eds., *Relocating the History of Science. Volume in Honor of Kostas Gavroglu*, Boston Studies in the Philosophy and History of Science, 2015, pp.297-312.
67. Ana Simões, Maria Paula Diogo, Kostas Gavroglu, “Epilogue” in Ana Simões, Maria Paula Diogo, Kostas Gavroglu, eds., *Sciences in the Universities of Europe, 19th and 20th centuries. Academic Landscapes* (Springer: Boston Studies in the Philosophy and History of Science, 2015), pp. 381-84.
68. Ana Simões, Maria Paula Diogo, Kostas Gavroglu, “Introduction” in Ana Simões, Maria Paula Diogo, Kostas Gavroglu, eds., *Sciences in the Universities of Europe, 19th and 20th centuries. Academic Landscapes* (Springer: Boston Studies in the Philosophy and History of Science, 2015), pp. 1-7.
69. Maria Paula Diogo, Ana Carneiro, Ana Simões, “Visions of Science. Research at the Faculty of Sciences of the University of Lisbon seen through its *Journal*”, Ana Simões, Maria Paula Diogo, Kostas Gavroglu, eds., *Sciences in the Universities of Europe, 19th and 20th centuries. Academic Landscapes* (Springer: Boston Studies in the Philosophy and History of Science, 2015), pp. 265-89.
70. Ana Simões, Kostas Gavroglu, “The Chemical Bond. Some Historical Insights,” in J.P. Llored, ed., *The Philosophy of chemistry: Practices, methodologies, and concepts* (Cambridge Scholars Publishing, 2013), pp. 226-239. Also to appear in French translation as “La liaison chimique, quelques aperçus historiques”, J.P.

- Llored, ed., *La Chimie, cette inconnue*, (Paris: Éditions Hermann, forthcoming 2015).
71. Ana Carneiro, Ana Simões, Maria Paula Diogo, Luís Miguel Carolino, “De l’Ecole Polytechnique de Lisbonne à la Faculté des Sciences: enjeux d’identité” in Yamina Bettahar, Marie-Jeanne Choffel Mailfert, eds., *Les Universités au risque de l’histoire. Principes, configurations et modèles* (PUN, Éditions Universitaires de Lorraine, 2014), pp. 343-367.
72. Vanda Leitão, Ana Carneiro, Ana Simões, “Tackling a complex chemical equation: The History of the Portuguese Society of Chemistry (1911-1926)” in Anita Kildebæk Nielsen, Sona Strbanova, eds., *European Chemical Societies. Comparative Analyses of Demarcations* (London: Royal Society of Chemistry, 2008), pp. 257-80.
73. Maria Paula Diogo, Ana Carneiro, Ana Simões, “El *Grand Tour* de la Tecnología: El *Estrangeirado* Manuel de Azevedo Fortes” in Antonio Lafuente, Ana Cardoso de Matos, Tiago Saraiva, eds., *Maquinismo Ibérico* (Madrid: Editones Doce Calles, 2007), pp.101-121.
74. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Introduction” in Ana Simões, Ana Carneiro, Maria Paula Diogo, eds., *Travels of Learning. Towards a Geography of Science in Europe* (Dordrecht: Kluwer Academic Publishers, 2003), pp. 1-18.
75. Ana Simões, “Chemical Physics and Quantum Chemistry in the Twentieth-Century,” in Mary Jo Nye, ed., *Modern Physical and Mathematical Sciences. Cambridge History of Science. 5th Volume* (Cambridge: Cambridge University Press, 2003, vol.5), pp. 394-412.
76. Ana Simões, Kostas Gavroglu, “Issues in the History of Theoretical and Quantum Chemistry, 1927-1960,” in C. Reinhardt, ed., *Chemical Sciences in the 20<sup>th</sup> century. Bridging Boundaries* (New York: Wiley-VCH, 2001), pp.51-74.

77. Kostas Gavroglu, Ana Simões, “One face or many? The role of textbooks in building the new discipline of quantum chemistry,” in Anders Lundgren, Bernadette Bensaude-Vincent, eds., *Communicating Chemistry. Textbooks and their Audiences, 1789-1939* (USA: Science History Publications, 2000), pp. 415-449.
78. Ana Simões, Kostas Gavroglu, “Different Legacies and Common Aims: Robert Mulliken, Linus Pauling and the Origins of Quantum Chemistry” in J.-L. Calais, E.S. Kryachko, eds., *Conceptual Perspectives in Quantum Chemistry*, (Dordrecht: Kluwer Academic Publishers, 1997), pp. 383-413.

#### CHAPTERS IN BOOKS IN NATIONAL PUBLICATIONS

79. Ana Simões, “O ano 1947 e o Laboratório de Física da Faculdade de Ciências de Lisboa,” in Teresa Peña, ed., *Física em Portugal no século XX* (Lisboa: Sociedade Portuguesa de Física/Gradiva, forthcoming 2015).
80. Ana Simões, “O Naturalista Correia da Serra. Da Utilidade das Ciências,” in Miguel Figueira de Faria, ed., *Machado de Castro: da Utilidade da Escultura*. (Lisboa: Caleidoscópico, 2014), p. 61-66.
81. Ana Simões, Ana Carneiro, Maria Paula Diogo, Luís Miguel Carolino, “Da Escola Politécnica e da Faculdade de Ciências de Lisboa. Construções identitárias e culturas científicas” in Sérgio Campos de Matos, Jorge Ramos do Ó, eds., *A Universidade de Lisboa nos séculos XIX e XX* (Lisboa: Tinta da China, 2013), pp. 779-859.
82. Kostas Gavroglu, Ana Simões, “Aspects from the History of Quantum Chemistry,” in Sebastião J. Formosinho, Hugh D. Burrows, eds., *Sementes da Ciência. Livro de Homenagem a António Marinho Amorim da Costa* (Coimbra: Imprensa da Universidade de Coimbra 2011), pp.183-203.
83. Conceição Tavares, Ana Carneiro, Maria Paula Diogo, Ana Simões, “A Imagem Pública da Ciência na Imprensa Portuguesa (1900-1901)”, in Carlos Cordeiro, Susana Serpa Silva, ed., *A História da Imprensa e a Imprensa na História. O contributo dos Açores*, Ponta Delgada: Centro de Estudos Gaspar Frutuoso, CEIS 20, 2009, pp. 519-536.

84. Ana Simões, "Considerações históricas sobre ciência e sociedade: divórcio litigioso ou casamento de sucesso?", in A. Tostões, E.R. Arantes de Oliveira, J.M. Pinto Paixão, P. Magalhães, eds, *Encontro de Saberes. Três gerações de bolseiros da Gulbenkian* (Lisboa: ed. FCG, 2006), pp.247-257.
85. Elsa Mota, Ana Simões, Paulo Crawford, "Einstein em Portugal: o primeiro teste da teoria da relatividade geral e o seu impacto na comunidade científica nacional" in C. Fiolhais, ed., *Einstein entre nós. A recepção de Einstein em Portugal de 1905 a 1955* (Coimbra: Imprensa da Universidade, 2005), pp. 43-56
86. Maria Paula Diogo, Ana Carneiro, Ana Simões, "Ciência portuguesa no Iluminismo: os estrangeirados e as comunidades científicas europeias" in João Arriscado Nunes, Eduarda Gonçalves, eds., *Enteados de Galileu? A semiperiferia no sistema mundial da ciência* (Porto: Edições Afrontamento, 2002), pp.209-238.

OTHER ARTICLES IN INTERNATIONAL PUBLICATIONS. ENTRIES IN DICTIONARIES

87. Ana Simões, "Mulliken, Robert Sanderson", in Hugh R. Slotten, ed., *Oxford Encyclopedia of the History of American Science, Medicine and Technology*, vol.2 (New York and Oxford: Oxford University Press, 2014), pp. 134-5.
88. Ana Simões, "Quantum Chemistry", in D. Greenberger, B. Falkenburg, K. Hentschel, F. Weinert, eds., *Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy* (Berlin: Springer Verlag, 2009), pp. 518-523.
89. Ana Simões, "Mulliken, Robert Sanderson," *New Dictionary of Scientific Biography* 23 (2008), 209-14.
90. Ana Simões, "Lewis, Gilbert Newton," *The History of Science in the United States: An Encyclopedia*, Garland Encyclopedias in the History of Science (New York: Garland, 2001), pp. 314-315.

91. Ana Simões, “Mulliken, Robert Sanderson,” *The History of Science in the United States: An Encyclopedia*, Garland Encyclopedias in the History of Science (New York: Garland, 2001), pp. 362-363.
92. Ana Simões, “Noyes, Arthur Amos,” *The History of Science in the United States: An Encyclopedia*, Garland Encyclopedias in the History of Science (New York: Garland, 2001), pp. 399-400.
93. Ana Simões, “Mulliken, Robert Sanderson,” *American National Biography* (New York: Oxford University Press, 1999), vol. 16, pp. 77-79.

#### OTHER ARTICLES IN INTERNATIONAL PUBLICATIONS. BOOK REVIEWS

94. Catarina Madruga, Ana Simões: Marta Lourenço, ed., *O Laboratório Chimico da Escola Politécnica de Lisboa. História, Coleções, Conservação e Musealização*. MUHNAC, Universidade de Lisboa: Lisboa, 2013. *Ambix*, forthcoming 2015.
95. Nuno Figueiredo, Ana Simões: E. Thomas Strom, Angela K. Wilson, eds. *Pioneers of Quantum Chemistry*, ACS Symposium Series 1122, American Chemical Society, Oxford University Press, 2013. *Ambix* 62 (1) (2015), 102-3.
96. Ana Simões: “Scientific biographies revisited. Thomsons' electrons and Bohr's quantum atoms”. Essay review of Jaume Navarro, *A History of the Electron: J. J. and G. P. Thomson*, 2012, University Press: Cambridge. 2012, Helge Kragh, *Niels Bohr and the Quantum Atom: The Bohr Model of Atomic Structure 1913-1925*, University Press: Oxford, 2012. *Ambix* 61 (1) (2014), 95-99.
97. Kostas Gavroglu, Ana Simões, “Authors' Response to Comments by Hasok Chang, Jeremiah James, and Paul Needham,” *Book symposium Historical and Philosophical Perspectives on Quantum Chemistry (Neither Physics nor Chemistry. A History of Quantum Chemistry)*, *Metascience* 2013, 22: 523-538-544.
98. Ana Simões: Andreas Karachalios, *Erich Hückel (1896-1980). From Physics to Quantum Chemistry* (Springer: Dordrecht, 2010), translated by Ann M. Hentschel. *Ambix* 60 (2) (2013), 192-3.



99. Ana Simões, Book Review of Agustí Nieto-Galan. Los públicos de la ciencia. Expertos y profanos a través de la historia, *HoST* 6 (2012), 110-112.
100. Ana Simões: *Weimar Culture and Quantum Mechanics. Selected Papers by Paul Forman and Contemporary Perspectives on the Forman Thesis*. Edited by Cathryn Carson, Alexei Kojevnikov, Helmuth Trischler. Imperial College Press, 2011. *Ambix* 59 (2) (2012), 180-1.
101. Ana Simões, “Modern chemistry red in tooth and claw”: Patrick Coffey, *Cathedrals of Science. The Personalities and Rivalries that made Modern Chemistry*. Oxford: Oxford University Press, 2008. Pp. xix+379. *Metascience* 19 (3) (2010), 485-8.
102. Ana Simões: Kostas Gavroglu, *O Passado das Ciências como História*, Porto: Porto Editora, 2007. Pp. 302, ISBN 960-524-175-7. First published in Greek in 2004. e-journal *HoST*, 3 (2009).
103. Ana Simões: Josep Simon and Néstor Herran with Tayra Lanuza-Navarro, Pedro Ruiz-Castell and Ximo Guillem-Llobat (eds.), *Beyond Borders. Fresh Perspectives in History of Science*. vii + 377 pp., biblio., index. Newcastle: Cambridge Scholars Publishing, 2008. *ISIS* 100 (4), (2009), 891-2.
104. Ana Simões: Carsten Reinhardt, *Shifting and Rearranging: Physical Methods and the Transformation of Modern Chemistry*, Sagamore Beach: Science History Publications, 2006, xii + 428 p.. *Centaurus*, 49(3) (2007), 247-8.
105. Ana Simões, Ana Carneiro: Juergen Heinrich Maar, *Pequena História da Química. Uma História da Ciência da Matéria. Primeira Parte: Dos Primórdios a Lavoisier* (Florianópolis, Editora Papa-Livro, 1999), 848 p., including notes and index, *HYLE*, 7 (2001), 169-171.

#### OTHER PUBLICATIONS

106. Ana Simões, Ana Carneiro, Maria Paula Diogo, “What can news about earthquakes, volcanoes and eclipses tell us?”, Preprint MPIWG, in Arne

Schirmacher, ed., *Communication Science in the 20<sup>th</sup> century. A survey on research and comparative perspectives*, MPIWG Preprint 385, 2009, pp.27-43.

107. Ana Simões, “History of Science in Portugal: where do we stand today,” *History of Science Society Newsletter*, July 2008, 16-17.

108. Ana Simões, “A Biblioteca do Saber” in *Catálogo À Luz de Einstein* (Lisboa: Fundação Calouste Gulbenkian, 2005), pp. 21-37.

#### ARTICLES IN PROCEEDINGS

109. Ana Simões, Ana Carneiro, Maria Paula Diogo, “Poder Político e Hegemonia Científica: Os Reitores Cientistas da Universidade de Lisboa na República e no Estado Novo, *Actas do 4<sup>o</sup> Encontro Nacional de História das Ciências e Tecnologia*, Construir Ciência, Construir o Mundo (forthcoming, 2015).

110. Ana Simões, “O astrónomo e popularizador Melo e Simas. Entre balas, granadas, planetas e cometas”, in *Atas do Ciclo de Conferências Açores: 100 anos de República* (Angra do Heroísmo: Presidência do Governo Regional/Direção Regional da Cultura/Coordenação dos Palácios da Presidência, 2012), pp. 257-71.

111. Ana Simões, “Introduction to Session ‘Chemistry in relation to physics’,” *Proceedings of the 6<sup>th</sup> International Congress for the History of Chemistry* (Leuven, 2008), 159-162.

On-line at <http://www.euchems.org/Divisions/History/EIC.asp>

112. Ana Simões, “Dangerous liaisons or unavoidable associations: quantum chemistry at the crossroads of chemistry, physics and mathematics”, *Proceedings of the 6<sup>th</sup> International Congress for the History of Chemistry* (Leuven, 2008), pp.35-52.

On-line at <http://www.euchems.org/Divisions/History/EIC.asp>

113. Ana Simões, “C.A. Coulson and the popularization of theoretical chemistry in the twentieth-century”, in *Proceedings 5<sup>th</sup> International Conference on the History of Chemistry* (Aveiro: SPQ, 2006), 175-183.

114. Ana Carneiro, Ana Simões, Maria Paula Diogo, “Science in Eighteenth century Portugal: the naturalist Correia da Serra,” in C.A. Lértora-Mendoza, E. Nicolaidis, J. Vandersmissen, eds., *The Spread of the Scientific Revolution to the European Periphery, Latin America and East Asia*, Proceedings of the XXth International Congress of History of Science (Belgian: Brepols, 2000), pp. 67-75.
115. Ana Simões, “La Polémique entre Boltzmann et Zermelo sur l’Interprétation Statistique de la Deuxième Loi de la Thermodynamique,” in Fernando Gil, ed., *Controvérsias Científicas e Filosóficas/Scientific and Philosophical Controversies* (Lisboa: Editorial Fragmentos, 1990), pp. 203-212.
116. Ana Simões, “L’Idée d’Irreversibilité dans l’Oeuvre de W. Thomson et ses Implications Physiques et Géologiques” in *Colleció Actes*, Institut D’ estudis Catalans, Comissió Interdepartamental de Recerca I Innovació Tecnològica (Barcelona: CIRIT, 1988), pp. 281-290.

#### TEXTBOOKS

117. Margarida Cruz, Margarida Godinho, Ana Nunes, Ana Simões, *Física na Biologia. Um ponto de Partida* (Lisboa: Associação dos Estudantes, FCUL, 2001).

#### INTERVIEWS

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- Interview with Linus Pauling, History of Science Society Annual Meeting, Seattle, Washington, U.S.A., 1990.

#### ORGANIZATION OF SCIENTIFIC MEETINGS, SESSIONS IN MEETINGS AND CONFERENCES

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##### INTERNATIONAL

- Member of the Program Committee of the 25<sup>o</sup> International Congress for the History of Science, Technology and Medicine, to be held at Rio de Janeiro, Brazil, July 2017.

- Member of the Scientific Committee of the International Committee for the History of Technology's 43rd Symposium (ICOHTEC), Porto, July 2016.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Faculty of Sciences, University of Lisbon, 2015.
- Chair of the Local Organizing Committee of the 6<sup>th</sup> European Society for the History of Science Meeting, Communicating Science, Technology and Medicine, Faculty of Sciences, University of Lisbon, 4-6 Sep 2014.
- Chair of the Local Organizing Committee of the 9<sup>th</sup> STEP Meeting, Faculty of Sciences, University of Lisbon, 1-3 Sep 2014.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Faculty of Sciences, University of Lisbon, 2014.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Faculty of Sciences, University of Lisbon, 2013.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Faculty of Sciences, University of Lisbon, 2012.
- Member of the Scientific Committee, *Luso-Brazilian Congress on the History of Science*, University of Coimbra, Coimbra, October 2011.
- Member of the Scientific Committee, *International workshop Time, Science and Society: 150 years of the Astronomical Observatory of Lisbon*, Lisbon, Astronomical Observatory of Lisbon (OAL), 6 October 2011.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Faculty of Sciences of the University of Lisbon (FCUL), 2011.
- Member of the Scientific and Local Organizing Committee, *Meeting History of European Universities. Challenges and Transformations*, Lisbon, Rectory of University Lisbon (organized in the context of the Celebration of the Centenary of the University of Lisbon), 18-20 April 2011.
- Member of the Organization Team of the *HoST Monthly Conferences*, Lisbon, Institute of Social Sciences (ICS), 2010.

- Member of the Organization Team of the session on “Scientific Travels since the 16<sup>th</sup> century”, *4<sup>th</sup> International Conference of the European Society for the History of Science (ESHS)*, Barcelona, Spain, 18-20 November 2010.
- Member of the Organization Team of the session on “Representations of Science and Technology in the European Daily Press”, *4<sup>th</sup> International Conference of the European Society for the History of Science (ESHS)*, Barcelona, Spain, 18-20 November 2010.
- Member of the Scientific and Organizing Committee of the *5<sup>th</sup> HoST Annual Workshop Science and Technology for the People*, Lisbon, Institute of Social Sciences (ICS), 20-21 September 2010.
- Member of the Organizing Committee of the *4<sup>th</sup> HoST Annual Workshop Places of modern science: situated laboratories, dispersed artifacts*, Lisbon, Institute of Social Sciences (ICS), 14-15 December 2009.
- Member of the Organizing Committee of the *3<sup>th</sup> HoST Annual Workshop Science, Technology and the Portuguese Empire*, Institute of Social Sciences (ICS), Lisbon, 16-17 December 2008.
- Member of the Scientific Committee of the *6<sup>th</sup> STEP (Science and Technology in the European Periphery) Meeting Stepping Back. Looking forward*, Istanbul, 19-21 June 2008.
- Proposal, Organization and Chairing of Session “Chemistry in relation to physics”, *6<sup>th</sup> International Conference on the History of Chemistry (6ICHC), Neighbors and territories: the evolving identity of chemistry*, Leuven, Belgium, 28 August–1 September 2007.
- Member of the Organizing Committee of the *2<sup>th</sup> HoST Annual Workshop Science under Fascist regimes*, Institute of Social Sciences (ICS), Lisbon, 14-15 June 2007.
- Member of the Organizing Committee of the *1<sup>th</sup> HoST Annual Workshop Circulation of Science and Technology*, Institute of Social Sciences (ICS), Lisbon, 5-6 June 2006.
- Proposal and Organization of Session “New Trends in the History of Science and Technology in the European peripheries (STEP),” *History of Science Society Annual Meeting*, Cambridge, MA, U.S.A., 20-23 November 2003.

- Member of the Scientific and Organizing Committee of *2<sup>nd</sup> STEP Meeting Scientific Travels*, Lisbon, Calouste Gulbenkian Foundation, 17-21 September 2000.
- Member of Organization Committee of *25<sup>th</sup> Symposium of the International Committee for the History of Technology ICOHTEC98*, Faculty of Sciences of Technology, New University of Lisbon (FCT/UNL), Costa da Caparica, Portugal, 18-22 August 1998.
- Proposal, Organization and Chairing of Session, “Technology, the Maritime Discoveries and the Overseas Empires,” *25<sup>th</sup> Symposium of the International Committee for the History of Technology ICOHTEC98*, FCT/UNL, Costa da Caparica, Portugal, 18-22 August 1998.
- Proposal, Organization and Chairing of Session “The Republic of Letters 1650-1800: The relation between ‘center’ and ‘periphery””, *3<sup>rd</sup> British-North American History of Science Meeting Crossing Boundaries*, University of Edinburgh, Scotland, 23-26 July 1996.

#### NATIONAL

- Member of the Scientific Committee, *4<sup>o</sup> Encontro Nacional de História das Ciências e Tecnologia*, Construir Ciência, Construir o Mundo, University of Aveiro, Aveiro, 12-14 June 2014.
- Member of the Scientific Committee of the *3<sup>o</sup> National Meeting of History of Science and Technology*, CEHFCi, University of Évora, 26-28 September, 2012.
- Member of the Scientific and Organization Committee of the *2<sup>o</sup> National Meeting of History of Science and Technology*, CIUHCT, Museum of Science of the University of Lisbon/Institute of Social Sciences, Lisbon, 26-28 July, 2010.
- Organization of Workshop “Science and Technology in the Press”, Lisbon, Interuniversity Center for the History of Science and Technology (CIUHCT), FCUL, Lisbon, 7 January 2010.
- Member of the Scientific and Organization Committee of *Workshop 29 de Maio de 1919. Eddington e Einstein em Portugal*, Astronomical Observatory of Lisbon (OAL), Lisbon, 28 May 2009.

- Organization of Conferences “No Tempo de Einstein,” Lisbon, *Department of Physics, FCUL, and Center for the History of Science of the University of Lisbon (CHCUL)*, Lisbon, 4, 11, 18, 25 May, 1 June, 2005.
- Organization of Conference *Leituras e o Passado das Ciências*, CHCUL/Porto Editora, FCUL, Lisbon, 21 Abril 2005.

## **INVITED TALKS**

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In invited co-authored talks, presenter is underlined.

### MEETINGS AND CONFERENCES

- Ana Simões, “Different Undertakings, Common Practices. Some Directions for the History of Science”, *Relocating the History of Science*. Conference in Honor of Kostas Gavroglu, Athens, 15 May 2015.
- Ana Simões, “Welcome. Presentation of the book *Relocating the History of Science*”, *Relocating the History of Science*. Conference in Honor of Kostas Gavroglu, Athens, 15 May 2015.
- Ana Simões, “A História das Ciências, antes e depois do 25 de Abril”, 25 de Abril, (Re)Evolução Científica?, Simpósio em Ciência e Sociedade, Faculty of Sciences, University of Lisbon, 24 April 2015.
- Ana Simões, “Introdução à Sessão A Luz na História e na Arte”, Simpósio de Lançamento do Ano Internacional da Luz (AIL) na Universidade de Lisboa, Instituto de Investigação Interdisciplinar, University of Lisbon, 13 March 2015.
- Ana Simões, “Nota Histórica”, Cinquentenário da Licenciatura em Física e da Licenciatura em Química, Faculty of Sciences, University of Lisbon, 24 Oct 2014.
- Ana Simões, Kostas Gavroglu, Commentators of Session 45 Pauling’s The Nature of the Chemical Bond in post-WWII chemical curricula: Europe and beyond, 6<sup>th</sup> European Society for the History of Science Meeting, Communicating Science, Technology and Medicine, Faculty of Sciences, University of Lisbon, 4-6 Sep 2014.

- Ana Simões, Maria Paula Diogo, “Minors in History and Philosophy of Science. The Portuguese Experience,” International Workshop "Teaching the history and the philosophy of science and technology (HPST) in higher education: challenges and experiences at the undergraduate level," organized by Atelier Science Histoire Cité (ASHiC), Institute de Science de la Communication du CNRS and Université Pierre et Marie Curie, Paris, 19-20 June 2014.
- Ana Simões, “Science in the capital city or a city turned into a scientific capital? Science, Technology and Medicine in Lisbon as seen through the press (1900-1910),” Third Watson Seminar in the History of Material and Visual Science “How to write an urban history of science: New approaches and case studies,” organized by Oliver Hochadel and Agustí Nieto-Galan, Barcelona, Institut d’Estudis Catalans (IEC), 5-6 June 2014.
- Ana Simões, “Recordações de Miguel Ramos. Passeio pela História”, Sessão de Homenagem a Miguel Ramos, FCUL, 6 January 2014.
- Ana Simões, “Uma história da FCUL, 1911-1974”, Conversas em torno de um livro, Biblioteca FCUL, 20 November 2013.
- Ana Simões, Commentator of two sessions, Mobilidade e circulação: métodos e abordagens nas ciências sociais e humanas, Workshop, FCSH-UNL, 2 Out 2013.
- Ana Simões, Commentator of Session “Shifting Discourses on Nuclear Power”. Tensions of Europe 2013, Paris, 19-21 September 2013.
- Ana Simões, “O Laboratório de Física da FCUL e a questão da investigação científica. Modernidade, mudança e resistências Department of Physics,” FCUL, 22 May 2013.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, Isabel Zilhão, “Ciência e Tecnologia para as Massas,” *HoST Conference*, 6 December 2012.
- Ana Simões, “Considerations on Science and Technology in the European Periphery”, Panel Discussion The relevance of localized knowledge, Meeting *Towards a history of the history of science: 50 years since “Structure”* organized by Jürgen Renn, Kostas Gavroglu and Christian Joas, Max Planck Institute for the History of Science (MPIWG), Berlin, 16-18 October 2012.



- Ana Simões, “O naturalista Correia da Serra, das utilidades da ciência”, *Colóquio Machado de Castro*, Museu Nacional de Arte Antiga, Lisbon, Portugal, 24 May 2012.
- Ana Simões, “Einstein em Lisboa. Tempo, ciência e sociedade”, *Meeting Einstein at the Academy of Sciences of Lisbon*, Academy of Sciences of Lisbon, Lisbon, Portugal, 17 May 2012.
- Ana Simões, “STEP: lessons on the role and uses of new media for science, Session: Center-Periphery: does it matter for the mediatisation of science”, *ESF Workshop Putting Science on the Air in Europe, 1920s to 1980s*, Berlin, Germany, 3-5 May 2012.
- Ana Carneiro, Ana Simões, Maria Paula Diogo, Luis Miguel Carolino, “De l’Ecole Polytechnique de Lisbonne à la Faculté des Sciences: principes fondateurs, enjeux de pouvoir, continuité et démarcation,” *Les Universités au risque de l’histoire. Principes, configurations et modèles XIXème - XXème siècles*, Nancy, France, 10-11 October 2011.
- Ana Simões, “O astrónomo e popularizador Melo e Simas. Entre balas, granadas, planetas e cometas”, *Cycle of Conferences Açores – 100 anos de República*, Biblioteca Pública e Arquivo Regional João José da Graça, Faial, Açores, 15 July 2011.
- Ana Simões, “The Abbé Correia da Serra in London: national ties and the Republic of Letters”, *Meeting Luso-British scientific relations*, Coimbra, 10 December 2010.
- Ana Simões, “República e Ciências. Instituições, personalidades e divulgação,” *Cycle of Conferences República e Ciências*, Fundação Mário Soares-Câmara Municipal de Lisboa, 24 June 2010.
- Ana Simões, Participation in Session “Science Communication and Dissemination,” Conference of *ANICT – Associação Nacional de Investigadores em Ciência e Tecnologia*, 8 May 2010.

- Ana Simões, “Celebrações e os desusos da história: a propósito do eclipse solar total de 29 Maio 1919”, Instituto Superior de Engenharia de Lisboa, ISEL, 22 March 2010.
- Ana Simões, “Einstein, Eddington e os astrónomos portugueses,” *Museu da Resistência*, 5 November 2009.
- Paulo Crawford, Ana Simões, “Portuguese astronomers and the principle of relativity,” *Conference on the History of Astronomy*, Museum of Science of the University of Lisbon, MCUL, 24-26 September 2009.
- Ana Simões, “Encontro com Einstein e Eddington: astrónomos portugueses ao serviço do império”, Conference “A luz desviada pelo Sol,” *Fundação Mário Soares*, 29 May 2009.
- Ana Simões, “Melo e Simas (1870-1934), um astrónomo na senda da relatividade”, *Jornadas de Astronomia*, National Library (BNP), 21 May 2009.
- Ana Simões, Discussant in Group 2 “The spread of knowledge in Europe and Asia”, *Dahlem Conference Globalization of Knowledge and its Consequences*, Berlin, 18-23 November 2007.
- Ana Simões, “Textbooks as manifestos: a role for C. A. Coulson after Linus Pauling and R.S. Mulliken,” *Conference The Scientist as Educator and Public Citizen: Linus Pauling and His Era*, Oregon State University, Corvallis, USA, 29-30 October 2007.
- Ana Simões, “Dangerous liaisons or unavoidable associations: quantum chemistry at the crossroads of chemistry, physics and mathematics,” Key note address at *6<sup>th</sup> International Conference on the History of Chemistry (6ICHC), Neighbors and territories: the evolving identity of chemistry*, Leuven, Belgium, 28 August – 1 September 2007.
- Ana Simões, “What about the history of science and technology in Portugal?”, Mini Forum *What do peripheries have to do with science and technology? Case studies from S&T in Portugal*, Portuguese Studies Program/Office for the History of Science and Technology, University of California at Berkeley, USA, 2 April 2007.

- Ana Simões, “Einstein in Portugal? The appropriation of relativity by Portuguese astronomers”, Mini Forum *What do peripheries have to do with science and technology? Case studies from S&T in Portugal*, Portuguese Studies Program/Office for the History of Science and Technology, University of California at Berkeley, USA, 2 April 2007.
- Ana Simões, “Considerações sobre ciência no século XIX”, Museum of Science of University of Lisbon (MCUL), 2 February 2006.
- Ana Simões, “Visões históricas do Sistema do Solar”, Workshop *A exploração do espaço: a sonda “New Horizons” visita Plutão*, FCUL, 11 January 2006.
- Ana Simões, “Três histórias em torno de um eclipse,” *Cycle of Colloquia Einstein entre nós*, Department of Physics, University of Coimbra, 9 November 2005.
- Participation in Debate “Einstein, o homem e a época” with Carlos Fiolhais, Rui Mário Gonçalves, and Carlos Matos Ferreira (as moderador), *Ciclo de Colóquios À Luz de Einstein*, Calouste Gulbenkian Foundation, 6 October 2005.
- Ana Simões, “Na interface da ciência, história e política: a vida atribulada de um naturalista alentejano,” *2º Encontro de Pós -Graduação em Ciências da Terra, do Clima e do Espaço*, Department of Physics, University of Évora, 29 September 2005.
- Ana Simões, “Reflexões sobre ciência de C.A. Coulson”, *Cycle of Conferences on the History of Science*, Department of Physics, University of Aveiro, 26 March 2004.
- Ana Carneiro, Ana Simões, Maria Paula Diogo, “The Abbé Correia da Serra: the geometry of plants,” *Seminar of the Centre Alexandre Koyré*, Paris, 18 February 2004.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Crossing boundaries, communicating science: Portuguese participants in the eighteenth-century

Republic of Letters,” *Meeting Transmission and understanding in the sciences, 1730-1870*, Maison Française, Oxford, U.K., 30-31 May 2003.

- Ana Simões, “From learning to teaching and to writing: the quantum chemist Charles Alfred Coulson and the crafting of science”, *Workshop Training scientists, crafting science: putting pedagogy on the map for science studies*, M.I.T., U.S.A., 24-26 January 2002, and 19-21 September 2002.
- Ana Simões, “Scientific Travels: Towards a geography of science in Europe,” *Meeting Center and Periphery revisited: The structures of European science, 1750-1914*, Maison Française, Oxford, U.K., 26-27 April 2002.
- Ana Simões, “A ciência de Correia da Serra,” Seminars of History, Institute of Social Sciences, ISCTE, Lisbon, 19 March 2002.
- Ana Simões, “The transmission of scientific knowledge to the peripheries of Europe: reception, appropriation, resistance”, History of Science Department, University of Aarhus, Denmark, 14 February 2002.
- Ana Simões, “Ciência Portuguesa no Iluminismo: a contribuição dos estrangeirados,” *Cycle of Conferences Mil Anos de Ciência*, Department of Mathematics, FCUL, 20 December 2001.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Correia da Serra,” *Efemérides 2001*, conferences organized by the Minister of Science and Technology, Week of Scientific Culture, 19 November 2001.
- Ana Simões, Maria Paula Diogo, Ana Carneiro, “As contribuições científicas do Abade Correia da Serra”, *Celebrations of the 250th anniversary of Abade Correia da Serra*, Serpa, Câmara Municipal de Serpa, 5 June 2001.
- Ana Simões, “Ciência num país periférico: o papel dos estrangeirados no Portugal setecentista,” Department of Mathematics, Universidade da Beira Interior, Covilhã, April 2001.

- Ana Simões, “Em Busca de um Tempo Perdido: Ciência em Portugal no século XVIII,” Late Afternoons (Serões) at the Museum of Sciences of the University of Lisbon, 15 March 2001.
- Ana Simões, “The sciences in Portugal in the 18<sup>th</sup> century: the case of the Abbé Correia da Serra,” Public Evening Session, XVII<sup>th</sup> European Conference on Few-Body Problems in Physics, Évora, 12 September 2000.
- Ana Simões, “Rethinking the history of quantum chemistry: a discipline at the crossroads of chemistry, physics *and* mathematics,” Joint Seminar for the History and Philosophy of 20<sup>th</sup> Century Science, Department of the History of Science, Harvard University, U.S.A., 12 May 2000.
- Ana Simões, “The Sciences in Portugal in the Eighteenth Century: Networks and the Dynamics of Appropriation,” Dibner Institute for the History of Science and Technology, M.I.T., U.S.A., 11 April 2000.
- Ana Simões, “The role of meetings in the making of quantum chemistry, 1928-1971,” *Dexter Symposium honouring Mary Jo Nye, Spring National Meeting of the American Chemical Society*, S. Francisco, U.S.A., 26-30 March 2000.
- Ana Simões, Kostas Gavroglu, “Issues in the History of Theoretical and Quantum Chemistry, 1927-1960,” *Meeting Between Physics and Biology: Chemical Sciences in the Twentieth Century, Joint Conference with the IUHPS/DHS Commission on the History of Modern Physics*, Deutsches Museum, Munich, Germany, 29 -30 May 1999.
- Ana Simões, “O papel dos manuais no desenvolvimento da Química Quântica”, Group for the History and Philosophy of Science, University of Évora, 13 May 1998.
- Ana Simões, “Quantum Chemistry in the 20<sup>th</sup> century,” Séminaire de DEA 1997-1998 *La Chimie dans la Classification des Sciences*, Université de Paris X, Nanterre, 19 January 1998.

- Ana Simões, “Ciência num país periférico: assimilação e resistências no Portugal setecentista”, Sociedad Catalana de Historia de la Ciencia y de la Tecnica, Barcelona, 12 December 1997.
- Ana Simões, “História da Ciência em Portugal,” MSc Seminar, Department of Physics, University of Porto, 11 July 1997.
- Ana Simões, “Homenagem a Thomas Kuhn,” Sociedade Portuguesa de Filosofia, Lisbon, 26 June 1997.
- Ana Simões, “A look at the Origins of Quantum Chemistry: a case of unification?,” Seven Pines Symposium Historical Perspectives and Philosophical Problems in the Unification of Physics, Lewis, Wisconsin, U.S.A., 14-18 May 1997.
- Ana Simões, “The beginnings of quantum chemistry in the USA: different legacies and common aims”, Colloquium Honors Program/ Humanities Consortium/ Department of Physics, New Mexico State University, Las Cruces, New Mexico, U.S.A., 8 May 1997.
- Ana Simões, “Um novo olhar sobre a ciência no Portugal setecentista,” Department of Physics and Portuguese Society of Physics, University of Coimbra, 21 March 1997.
- Ana Simões, “Reinterpretando as origens da química quântica: Mulliken-Pauling versus Heitler-London”, Group of the History and Philosophy of Science, University of Aveiro, 26 February 1997.
- Ana Simões, “Different Legacies and Common Aims: Robert Mulliken, Linus Pauling and the origins of quantum chemistry,” Departmental Seminar, Department of History and Philosophy of Science, University of Cambridge, U.K., 16 January 1997.
- Ana Simões, “O que é a ciência?” Department of Physics, Instituto Superior Técnico, 13 May 1996.

- Ana Simões, “História da Ciência,” Lecture at the Undergraduate Course *Perspectivas em Química* (taught by Professor José Artur Martinho Simões), 1<sup>o</sup> year Chemistry Course, FCUL, 16 November 1995.
- Ana Simões, “A Segunda Lei da Termodinâmica e a Seta do Tempo,” Department of Geosciences, Açores, 1986.
- Ana Simões, “A Ciência e a Técnica na Idade Média,” Department of Geosciences, Açores, 1986.
- Ana Simões, “A Segunda Lei da Termodinâmica e a sua Interpretação Microscópica,” History and Philosophy Seminars, FCUL, Lisbon, 1986.

#### PHD, MSC AND UNDERGRADUATE PROGRAMS

- Ana Simões, Organização do Módulo de História das Ciências e Tecnologia (séculos XVIII-XX) (6 sessões de 2h cada), Programa de formação universitária da Universidade de Lisboa, Museu Nacional de História Natural e da Ciência, Abril-Maio 2014 e leccionação da sessão “Voando sobre as ciências, séculos XVIII-XX”, 3 Abril 2014.
- Ana Simões, “As relações entre História e História das Ciências,” Lecture for PhD Program, Institute of Social Sciences (ICS), 22 November 2011.
- Ana Simões, “Reflections on the History of Science,” Lecture for PhD Program, Instituto de Tecnologia Química e Biológica (ITQB), Oeiras, 17 March 2011.
- Ana Simões, “História das Ciências,” Instituto Estudos Seniores, Academy of Sciences of Lisbon, 13 December 2010.
- Ana Simões, Set of 3 Lectures “Science in the 20<sup>th</sup> century”, “The new social and cultural history of science”, “Science and Technology in the European Periphery, Course *Science in History*, MSc Program Historia das Ciencias y da Técnica, Autonomous University of Barcelona, UAB, 24, 25, 26 January 2007.
- Ana Simões, “Ciência e Poder: Ilustração e estrangeirados”, MSc Program in Cultural and Political History, Department of History of Ideas and Political

Studies, Faculty of Social Sciences and Humanities, New University of Lisbon,  
14 March 2003.

## **ORAL PRESENTATIONS IN NATIONAL AND INTERNATIONAL MEETINGS**

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In co-authored presentations, presenter is underlined

- Ana Carneiro, Ana Simões, Maria Paula Diogo, “Poder Político e Hegemonia Científica: Os Reitores Cientistas da Universidade de Lisboa na República e no Estado Novo, 4<sup>o</sup> Encontro Nacional de História das Ciências e Tecnologia, Construir Ciência, Construir o Mundo, University of Aveiro, Aveiro, 12-14 June 2014.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Rectors’ Scientists at the University of Lisbon under the I Republic and the Dictatorship (1911-1974). Political entanglements and scientific hegemony”, International Workshop. Science as cultural hegemony. Gramscian concepts for the history of science, Barcelona, 22-24 January, 2014.
- Ana Simões, Luís Miguel Carolino, “The Portuguese astronomer Melo e Simas (1870-1934). Shaping the republican ethos through a many-layered practice as scientific communicator,” Session Experts as public personae. Media, politics and expertise since 1851, Tensions of Europe 2013, Paris, 19-21 September 2013.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, Isabel Zilhão, Eirini Mergoupi-Savaidou, Faidra Papanelopoulou, Spyros Tzokas, Pedro Ruiz-Castell, Ignacio Suay Matallana, Juan M. Bonet, “Comparing the Public Perceptions of Science and Technology in the Greek, Portuguese and Spanish daily press: the case of the return of Halley’s Comet (1910),” 8<sup>th</sup> STEP Meeting, Corfu, Greece, 21-24 June 2012.
- Ana Simões, Commentator of Sessions Science and the Press I. Institutions and Communities and Science and the Press II. Education and Popularization, 8<sup>th</sup> STEP Meeting, Corfu, Greece, 21-24 June 2012.



- Ana Simões, Isabel Zilhão, Maria Paula Diogo, Ana Carneiro, “Halley turns Republican. How the Portuguese daily press perceived the return of Halley’s comet in 1910,” *History of Science Society Annual Meeting*, Cleveland, Ohio, USA, 3-6 November 2011.
- Maria Paula Diogo, Ana Carneiro, Ana Simões, Isabel Zilhão, “Science and Technology for the People. Building modernity through the popularization of scientific and technical knowledge (Portugal, 1900-1925)”, *53th SHOT Annual Meeting*, Cleveland, Ohio, USA, 3-6 November 2011.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, Luís Miguel Carolino, “Um lugar que seja seu: a Faculdade de Ciências de Lisboa e a profissionalização das ciências”, *Luso-Brazilian Congress on the History of Science*, Coimbra, Portugal, 26-29 October 2011.
- Ana Simões, Luís Miguel Carolino, “A Republican astronomer, Melo e Simas (1870-1934) between cannon-balls, planets and comets,” *International workshop Time, Science and Society: 150 years of the Astronomical Observatory of Lisbon*, OAL, Lisbon, Portugal, 6 October 2011.
- Pedro Raposo, Ana Simões, “Travels of learning revisited”, *Workshop on the Historiography of Science in the European Periphery*, Athens, Greece, 15-17 September 2011.
- Ana Simões, Isabel Zilhão, “Halley turns Republican. How the Portuguese press perceived the 1910 return of Halley’s Comet”, *Workshop on the Historiography of Science in the European Periphery*, Athens, Greece, 15-17 September 2011.
- Ana Carneiro, Ana Simões, Maria Paula Diogo, “Nature and History in the work of the Portuguese naturalist Correia da Serra (1751-1823),” *13th International Conference for the 18<sup>th</sup> Century Studies (ISECS) Time in the Age of Enlightenment: Situating the Present, Imaging the Future*, Graz, Austria, 25-9 July 2011.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, Luís Miguel Carolino, “A matter of identity. Scientific research and the *Journal of the Faculty of Sciences of*

Lisbon”, *Meeting History of European Universities. Challenges and Transformations*, Lisbon, Portugal, 18-20 April 2011.

- Ana Simões, “Comparative Studies in the European Periphery”, *Workshop on the Historiography of Science in the European Periphery*, Athens, Greece, 10-12 February 2011.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, Isabel Zilhão, Eirini Mergoupis-Savaidou, Faidra Papanelopoulou, Spyros Tzokas, “Comparing the public perceptions of science and technology in the Greek and the Portuguese daily press, 1908-1910,” Session “Representations of Science and Technology in the European Daily Press,” *4<sup>th</sup> International Conference of the European Society for the History of Science (ESHS)*, Barcelona, Spain, 18-20 November 2010.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Riding the wave to reach the masses: natural events in early twentieth century Portuguese daily press”, *5<sup>th</sup> HoST Annual Workshop Science and Technology for the People*, Institute of Social Sciences (ICS), Lisbon, Portugal, 20-21 September 2010.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “The creation of the Faculty of Sciences of the University of Lisbon: Republican ideals, scientific teaching and research agendas (1911-1974),” Session Universities in the Periphery, *7<sup>th</sup> STEP Meeting*, National University of Ireland, Galway, Ireland, 17-20 June 2010.
- Júlia Gaspar, Ana Simões “Techno-physics on the periphery: a research school at the University of Lisbon under Salazar’s dictatorship (1929-1947),” *4<sup>th</sup> HoST Annual Workshop Places of Modern Science: situated laboratories, dispersed artifacts*, Lisbon, Portugal, 14-15 December 2009.
- Júlia Gaspar, Maria do Mar Gago, Ana Simões, “Fields and Labs, groups and research schools: Portuguese geneticists and physicists under the fascist regime (1929-1954),” Session S37 Science, Politics and Development in the 20<sup>th</sup> century, *International Congress for the History of Science and Technology (ICHST)*, Budapest, Hungary, 28 July-2 August 2009.

- Ana Simões, Ana Carneiro, Maria Paula Diogo, “What can news about earthquakes, volcanoes and eclipses tell us? Science in the Portuguese press at the beginning of the 20th century,” Session S53 Communicating science in 20th century Europe: comparative perspectives, *International Congress for the History of Science and Technology (ICHST)*, Budapest, Hungary, 28 July-2 August 2009.
- Maria Paula Diogo, Ana Simões, “Apresentação do CIUHCT;” *I Encontro Nacional de História da Ciência (IENHCT)*, Centro Científico e Cultural de Macau (CCCM), Lisbon, Portugal, 21 July 2009.
- Conceição Tavares, Ana Carneiro, Maria Paula Diogo, Ana Simões, “A Imagem Pública da Ciência na Imprensa Portuguesa (1900-1901)”, *Internacional Meeting A História da Imprensa e a Imprensa na História. O contributo dos Açores*, Centro de Estudos Gaspar Frutuoso da Universidade dos Açores/Centro de Estudos Interdisciplinares do Século 20 – CEIS 20 – da Universidade de Coimbra, Ponta Delgada, Azores, Portugal, 28-30 May 2009.
- Ana Simões, “Encontro com Einstein: astrónomos ao serviço do império,” *Workshop 29 de Maio de 1919. Eddington e Einstein em Portugal*, Astronomical Observatory of Lisbon (OAL), Lisbon, Portugal, 28 May 2009.
- Ana Simões, Commentator of Session Scientific Travels, *6<sup>th</sup> STEP Meeting Stepping Back. Looking forward*, Istanbul, Turkey, 19-21 June 2008.
- Ana Simões, “The appropriation of relativity by the Portuguese astronomer Melo e Simas (1870-1934)”, *History of Science Society Annual Meeting*, Washington D.C., U.S.A, 1-4 November 2007.
- Ana Carneiro, Ana Simões, Maria Paula Diogo, “Languages of exile: Correia da Serra (1751-1823) and the idioms of botany,” *Symposium on the Languages of Science in the time of Linnaeus*, University of Uppsala, Sweden, 7-9 June 2007.
- Ana Simões, “What roles for Science and Technology in the European Periphery?”, Session Globalization of knowledge, ECSITE 2007, Lisbon, Portugal, 2 June 2007.

- Paulo Crawford, Ana Simões, Elsa Mota, “The aftermath of Eddington’s 1919 solar eclipse expedition to Principe. The appropriation of relativity by the Portuguese astronomical community (1917-1925),” 11<sup>th</sup> Marcel Grossman Meeting, Free University of Berlin, Berlin, Germany, 23-29 July 2006.
- Ana Simões, Commentator of Session Popular Physics, 5<sup>th</sup> *STEP meeting Popularisation of Science in the European Periphery*, Maó, Minorca, Spain, 1-3 June 2006.
- Conceição Tavares, Ana Carneiro, Maria Paula Diogo, Ana Simões, “Public image of science and technology in the Portuguese press at the dawn of a new century,” 5<sup>th</sup> *STEP meeting Popularisation of Science in the European Periphery*, Maó, Minorca, Spain, 1-3 June 2006.
- Ana Simões, “C.A. Coulson and the popularization of theoretical chemistry in the 20th century”, *International Congress of the History of Chemistry (ICHC)*, Lisbon-Estoril, Portugal, 6-9 September 2005.
- Vanda Leitão, Ana Carneiro, Ana Simões, “The History of the Portuguese Society of Chemistry (1911-1926)”, Workshop “European Chemical Societies. Comparative Analyses of Demarcations”, *International Congress of the History of Chemistry (ICHC)*, Lisbon-Estoril, Portugal, 6-9 September 2005.
- Elsa Mota, Ana Simões, Paulo Crawford, “Einstein em Portugal: o primeiro teste da teoria da relatividade e o seu impacto na comunidade científica nacional”, Session on the History of Astronomy, *XV National Meeting of Astronomy and Astrophysics*, Astronomical Observatory of Lisbon, OAL, Lisbon, 30 July 2005.
- Ana Simões, “Correia da Serra: Ciência, História e Política,” *Conference Leituras e o Passado das Ciências*, CHCUL/Porto Editora, FCUL, Lisbon, 21 April 2005.
- Maria Paula Diogo, Ana Carneiro, Ana Simões, “Home and Away: the views on science in Portugal and Europe of an 18<sup>th</sup> century Portuguese naturalist,” 1st

*Meeting of the European Society for the History of Science, Science in Europe, Europe in Science*, Maastricht, Netherlands, 4-6 November 2004.

- Ana Simões, “A matemática e a química, uma ligação difícil ou uma associação incontornável? A perspectiva de Charles Alfred Coulson (1910-1974)”, *National Meeting of History of Mathematics*, Lisbon, 25-26 June 2004.
- Ana Simões, Maria Paula Diogo, Ana Carneiro, “The Afterlives of the Abbé Correia da Serra (1751-1823),” *4<sup>th</sup> STEP Meeting Traditions and Realities of National Historiographies of Science*, Aarhus, Denmark, 2-6 June 2004.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Scientific travels: a STEP towards a geography of science in Europe,” *History of Science Society Annual Meeting*, Cambridge, MA, USA, 20-23 November 2003.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, “Communicating the new chemistry in 18<sup>th</sup> century Portugal: Seabra’s *Elementos de Chimica*,” *3<sup>rd</sup> STEP Meeting Textbooks*, Aigina, Greece, 2-9 June 2002.
- Ana Simões, “Panel Presentation by STEP: the transmission of Scientific Knowledge and Public Awareness to the Peripheries of Europe: Reception, Appropriation, Resistance” with Agusti Nieto-Galan and Eduard Kolchinsky, *Conference Explanatory Models and Public Understanding. The Debate between Science and Religion, Euroconference on Leaders of the Debate between Science and Religion: Individuals and Institutions*, Exeter, U.K., 8-12 September 2001.
- Ana Simões, “Good neighbours or enemies: how chemists reacted to quantum theory?”, *Quantum Theory Centenary, Symposium IV: The Foundations of Quantum Physics before 1935*, Technical University of Berlin, Berlin, Germany, 14-16 December 2000.
- Maria Paula Diogo, Ana Simões, Ana Carneiro, “Os estrangeirados e a ciência portuguesa do Iluminismo,” *1<sup>o</sup> Congresso Luso-Brasileiro de História da Ciência e da Técnica, Évora-Aveiro*, Portugal, 22-27 October 2000.

- Ana Carneiro, Maria Paula Diogo, Ana Simões, “Scientific Travelling and communication in the sciences: the case of the Portuguese naturalist Correia da Serra (1751-1823),” *2<sup>nd</sup> STEP Meeting Scientific Travels*, Lisbon, Portugal, 17-21 September 2000.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “Issues in the historiography of science in Portugal. From the Enlightenment to the 20<sup>th</sup> century,” *1<sup>st</sup> STEP Meeting Science in the European Periphery. From the Enlightenment to the 20<sup>th</sup> century*, Barcelona, Spain, 29 May-2 June 1999.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, “Em busca de espaços para germinar: Correia da Serra (1751-1823) ou um exemplo de como as opções individuais são decisivas na actividade científica,” *5<sup>o</sup> Encontro de Évora de História e Filosofia da Ciência*, University of Évora, Évora, 12-13 November 1998.
- Ana Carneiro, Maria Paula Diogo, Ana Simões, “Portuguese Engineering and the colonial project in the nineteenth-century,” *25<sup>th</sup> Symposium of the International Committee for the History of Technology ICOHTEC98*, FCT/UNL, Costa da Caparica, Portugal, 18-22 August 1998.
- Ana Carneiro, Ana Simões, Maria Paula Diogo, “Science in 18<sup>th</sup> century Portugal: the naturalist Correia da Serra,” Session Transfer of Science and Technology. The spread of the Scientific Revolution to the European Periphery, *XX<sup>th</sup> International Congress of History of Science, Science, Technology and Industry*, Liège, Belgium, 20-26 July 1997.
- Maria Paula Diogo, Ana Carneiro, Ana Simões, “Imagens do Portugal Setecentista. Textos de estrangeirados e de viajantes,” Meeting in Honor of the Poet and Historian of Science Rómulo de Carvalho, Calouste Gulbenkian Foundation, Lisbon, 18 December 1996.
- Ana Simões, “O Papel dos estrangeirados na difusão da Revolução Científica em Portugal durante o século XVIII,” *Annual Meeting of the Portuguese Society of Physics Física 96*, Faro, Portugal, 13-17 September 1996.

- Ana Carneiro, Ana Simões, Maria Paula Diogo, “Crossing Boundaries: The Scientific Revolution in Portugal during the Enlightenment,” Session The Republic of Letters 1650-1800: The relation between ‘center’ and ‘periphery’, *3<sup>rd</sup> British-North American History of Science Meeting Crossing Boundaries*, University of Edinburgh, Scotland, 23-26 July 1996.
- Ana Simões, Ana Carneiro, Maria Paula Diogo, “The Scientific Revolution in Portugal in the Eighteenth-Century: Some Considerations and Preliminary Conclusions,” *Meeting The Transmission of the Scientific Ideas to the Countries of the European Periphery during the Enlightenment*, Delphi, Greece, 23-26 July 1995.
- Kostas Gavroglu, Ana Simões, “Rules versus Theory. The Ambivalence of Chemists to Physics in the 1930s,” *History of Science Society/Society for the Social Studies of Science/Philosophy of Science Association Annual Meeting*, New Orleans, U.S.A., 13-16 October 1994.
- Ana Simões, “Chemistry, Physics and Quantum Chemistry, 1927-1937,” XIX<sup>th</sup> *International Congress for the History of Science (ICHS)*, Zaragoza, Spain, 21 August-1 September 1993.
- Ana Simões, “The Beginnings of Quantum Chemistry in the United States: The Legacies of Physics and Chemistry,” Session The Boundaries between Chemistry and Physics: France, German and the U.S. in the 19<sup>th</sup> and 20<sup>th</sup> Centuries, *History of Science Society Annual Meeting*, Washington D.C., U.S.A., 27-30 December 1992.
- A.M. Nunes dos Santos, Ana Luísa Janeira, Ana Carneiro, Ana Simões and J.P. Sousa Dias, “Bloqueios Científicos nas Academias Portuguesas no século XVIII”, *Congresso Ibero-Americano de História das Ciências*, S. Paulo, Brazil, 1988.
- Ana Simões, “L'idée d'irréversibilité dans l'oeuvre de W. Thomson et ses implications physiques et géologiques,” *Trobades científiques de la Mediterrania: Historia de la Física*, Maó, Minorca, Spain, 2-4 September 1987.

- Ana Simões, “La Polémique entre Boltzmann et Zermelo sur l’ Interprétation Statistique de la Deuxième Loi de la Thermodynamique,” *Meeting Scientific and Philosophical Controversies*, Évora, Portugal, 2-7 December 1995.

## **MEMBERSHIP IN SCIENTIFIC SOCIETIES**

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- Founding Member of the *History of Physics Group, Portuguese Society of Physics*, since 2014.
- Member of the Scientific Committee of the *European Society for the History of Science*, since 2012.
- Member of the *European Society for the History of Science*, since 2012.
- Member of the *Board of the International Academy for the History of Science*, since 2012.
- Member of the *Board of the International Commission for the History of Universities (ICHU)*, 2009-2015.
- Member of the Portuguese Group of the *Working Party for the History of Chemistry of EuChemSoc*, since 2007.
- Founding Member of the *History of Chemistry Group, Portuguese Society of Chemistry*, since 2005.
- Member of the *British Society for the History of Science*, since 2002.
- Founding member of the European research network *STEP, Science and Technology in the European Periphery*, since 1999.
- Member of the *Advisory Board of the Commission on the History of Modern Chemistry (CHMC), International Union of the History and Philosophy of Science/ Division of History of Science (IUHPS/DHS)*, 1998-2011.
- Member of the *History of Science Society*, since 1989.



## EDITORIAL POSITIONS

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- Member of the Consejo de Redacción of the international journal *Asclepio (CSIC)*, since 2014.
- Member of the Advisory Board of the Series *Culture Dynamics of Science (CDS)*, Brill, since 2014.
- Member of the Editorial Board of the Series *Boston Studies for the Philosophy of Science*, since 2010.
- Associate Editor of *Centaurus* (the journal of the European Society for the History of Science), since 2010.
- Member of the Editorial Board of the Max Planck Institute for the History of Science (MPIWG) Research library for the history and development of knowledge (Open Access Activity), since 2010.
- Member of the Editorial Board of the international on-line journal *HoST*, History of Science and Technology, since 2006. <http://johost.eu/>
- Member of the Editorial Board of *Book Series History and Philosophy of Science (Coleção História e Filosofia das Ciências)*, Porto Editora, since its creation in 2003. See <http://www.ciuhct.org> (and click Publicações and Coleção História e Filosofia da Ciência)
- Member of the Editorial Board of *Book Series Science and Enlightenment (Coleção Ciência e Iluminismo)*, Porto Editora, since its creation in 2003. See <http://www.ciuhct.org> (and click Publicações and Coleção Ciência e Iluminismo)

## REFEREEING

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For the following specialized journals and series:

- *Annals of Science*
- *The British Journal for the History of Science*
- *Centaurus*
- *e-Journal of Portuguese History*

- *Foundations of Chemistry*
- *Gazeta de Física*
- *Historical Studies in the Natural Sciences*
- *Journal of Computational Chemistry*
- *Hyle*
- *Metascience*
- *Science and Education*
- *Studies in the History and Philosophy of Science*
- *Boston Studies in the Philosophy and History of Science*

## **CONSULTANCY**

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- Member of the History Evaluation Panel, PhD and Post-Doc Grants, Foundation for Science and Technology, December 2013.
- Participation as on-line reviewer in the Evaluation of FCT Research Grants, October 2013.
- Member of the Scientific Advisory Board of the Max Planck Institute for the History of Science (MPIWG), 2012-2017.
- Member of the Selection Panel of *Compromisso com a Ciência* for the Museum of Science of the University of Lisbon, CC2007-UL-58-MP, September/October, 2007.
- Coordinator of the Evaluation Panel of History of Science and Technology Projects submitted to the Foundation for Science and Technology, Portugal (FCT), 2004.
- Member of the Working Team on History and Philosophy of Science and Technology for the *White Paper, Livro Branco sobre o Desenvolvimento da Ciência e da Tecnologia*, Ministry of Science and Technology, 1998-89.

## **DIRECTION OF RESEARCH UNITS**

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- Coordinator of the Interuniversity Center for the History of Science and Technology (CIUHCT), funded by the Foundation for Science and Technology (FCT), since 2011.
- Coordinator of the University of Lisbon Group of the Interuniversity Center for the History of Science and Technology (CIUHCT-UL Group), funded by the Foundation for Science and Technology (FCT), 2007-2011.
- Coordinator of the Center for the History of Science of the University of Lisbon (CHCUL), funded by the Foundation for Science and Technology, 2003-2007.

## **NATIONAL RESEARCH PROJECTS**

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### AS PRINCIPAL INVESTIGATOR

- *Visions of Lisbon. Science, Technology and Medicine and the making of a techno-scientific capital (1870-1940)*. VISLIS - PTDC/IVC-HFC/3122/2014, pending evaluation. Budget: 98.199,00 €.
- UID/HIS/00286/2013. Strategic Project – 2015-2017. Budget: 817.026,00 €.
- PEst-OE/HIS/UI0286/2014. Strategic Project - UI 286 - 2014. Budget: 53.092,00 €
- PEst-OE/HIS/UI0286/2011. Strategic Project - UI 286 - 2011-2013. Budget: 157.576,00 €
- *Reading newspapers: an open window to representations of science and technology in the Portuguese press (1900-1926)* (PTDC/HCT/68210/2006), 2008-2011. Budget: 45.000,00 €

For an overview of objectives, methodology and scientific output of the project see list of publications (5 papers, 1 MPIWG pre-print, and 1 book chapter authored by candidate) and database

<http://www.ciuhct.org> (click Research-Projects lead by CIUHCT members- Reading Newspapers)

- *A scientific biography of Correia da Serra* (POCTI/HFC/38073/2001), 2002-2005. (Approved as Excellent). Budget: 34.875,00 €  
For an overview of objectives, methodology and scientific output of the project see list of publications (1 book, 3 edited volumes, 2 papers and 1 book chapter authored by candidate) and transcriptions of sources in <http://www.ciuhct.org> (click Archive-Research Projects-A Scientific Biography of Abbé Correia da Serra)

#### AS RESEARCH MEMBER

- *Engineering the Anthropocene: Colonial Science, Technology and Medicine and the changing of the African landscape. ANTHROPOLANDS - PTDC/IVC-HFC/6789/2014*, approved.
- *Science, technical training and the construction of Liberalism in Portugal: the case of the Polytechnic School of Lisbon (1837-1911)*, HC/0084/2009, 2010-2013.
- *Nuclear Portugal: Physics, Technology, Medicine and Environment (1910-2010)*, HC/0063/2009, 2010-2013.
- *The Spaces of Portuguese Technoscience (1837-1947)*, PTDC/HCT/70798/2006, 2008-2011.
- *Paving the way for integrated archival and collection-based research in the history of science: Preservation, access and case-studies of the collections of the Museum of Science (University of Lisbon)*, PTDC/HCT/64181/2006, 2007-2011.
- *Scientific Heritage and Manuscript Culture: the Collections of scientific manuscripts at the National Library of Portugal*, POCTI/HCT/58543/2004, 2004-07.

- *Laying down the Foundation Stone: 19th century Geology in the context of the Mining and Metals General Committee, and the Portuguese Geological Survey*, POCTI/HCT/37703/2001, 2002-04.
- *Project Science, Technology and the Empire*, PCSH/HAR/0072/96, 1997-99 and POCTI/35065/1999/2001, 2001-03.

## **INTERNATIONAL RESEARCH PROJECTS**

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### AS PRINCIPAL INVESTIGATOR

- Leader of the Portuguese group of the *Project Science in the Iberian Peninsula: contributions to a comparative study of Spain and Portugal from the eighteenth to the twentieth century*, in the context of *Acção Integrada Luso-Espanhola* N° E-18/06, 2006-8. With the Universitat Autònoma de Barcelona, Barcelona, Spain.
- Leader of the Portuguese Group of the European Community Project, *Human Capital and Mobility, Scientific and Technical Cooperation Networks Project Prometheus – The Spreading of the Scientific Revolution from the countries where it originated to the countries in the Periphery of Europe, during the 17<sup>th</sup>, 18<sup>th</sup>, and 19<sup>th</sup> centuries*, CHRX-CT93-0299, 1994-6.

### AS RESEARCH MEMBER

- *Engineering in the Iberian Peninsula: contribution to a comparative study of the role of engineering in the modernization of Portugal and Spain (eighteenth and nineteenth centuries)*, in the context of *Acção Integrada Luso-Espanhola* E43/02, 2002/03. With the Universitat Politècnica de Catalunya, Barcelona, Spain.
- Researcher and founding member of STEP, *Science and Technology in the European Periphery*, <http://147.156.155.104>, since 1999.

## **SUPERVISION OF CC AND FCT RESEARCHERS, POST-DOCTORATES AND PHD DISSERTATIONS**

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### COMPROMISSO COM A CIÊNCIA (CC) AND FCT RESEARCHERS

- Ana Duarte Rodrigues, *Sustainable Beauty for Algarvean Gardens: Old Knowledge to a better future*, FCT Research Grant IF/00322/2014, 2015-2019. Supervisor.
- Cláudia Castelo, *Field Scientists in the ‘Luso-Tropical Setting’: Knowledge, Ideology and Governance in Late Portuguese Empire*, FCT Research Grant IF/00519/2013, 2014-2018. Supervisor.
- Luís Miguel Carolino, *Science, Religion and Power in the Portuguese Empire (1555-1779)*, FCT Principal Investigator. Supervisor 1 July-31 Aug 2013.
- Luís Miguel Carolino, FCT 2007 ‘Compromisso com a Ciência’ Assistant Researcher. Supervisor 2008-2013.

### POST-DOCTORATES

- Teresa Salomé Mota, *Construir o cidadão: ciência, ideologia e educação em Portugal (1837-1974)*, Foundation for Science and Technology Grant SFRH/BPD/99922/2014. Supervisor 2015-20.
- Teresa Salomé Mota, *A construção da Geologia em Portugal: entre o liberalismo e o Estado Novo*, CIUHCT, Foundation for Science and Technology Grant SFRH/BPD/40065/2007. Supervisor 2011-2014.
- Pedro Raposo, *Regimes, saberes e mobilidade: as redes científicas e as missões internacionais no desenvolvimento da ciência em Portugal da Regeneração à Primeira República (1851-1926)*, CIUHCT/FCUL. Foundation for Science and Technology Grant FCT/MCTES, SFRH/BPD/73373/2010.

- Isabel Zilhão, *Comunicar ciência e tecnologia em Portugal, 1900-1926: o papel da imprensa diária*, CIUHCT/FCUL, Foundation for Science and Technology Grant FCT/MCTES, SFRH/BPD/71036/2010.
- Rejane Lira da Silva, CIUHCT, University of Lisbon, May-December 2008. The initial part of this Post-Doctorate took place in Museum Bocage, Museums of the Polytechnic.

#### COMPLETED PHD DISSERTATIONS

- José Alberto Silva, *A Academia Real das Ciências de Lisboa (1779-1834). Ciências e Hibridismo numa Periferia Europeia*. PhD Program in History and Philosophy of Sciences, FCUL. Foundation for Science and Technology Grant SFRH/BD/60458/2008, 20 March 2015.
- Júlia Gaspar, *Percursos da Física e Energia Nucleares na Capital Portuguesa em Portugal. Ciência, Poder e Política, 1947-1973*. PhD Program in History and Philosophy of Sciences, FCUL. Foundation for Science and Technology Grant SFRH/BD/60458/2009, 18 December 2014.

#### ONGOING PHD DISSERTATIONS

- Catarina Marques Madruga, *A África de José Vicente Barbosa du Bocage. Administração Colonial e Expertise Científico (1865-1892)*. PhD Program in History and Philosophy of Sciences, FCUL. Co-supervision together with Maria Paula Diogo.
- Nuno Figueiredo, *Mathematical Abstraction as a means to understand H.C. Longuet Higgins' Contributions to the Construction and Legitimation of Quantum Chemistry*. PhD Program in History and Philosophy of Sciences, FCUL. Foundation for Science and Technology Grant SFRH/BD/82104/2011.
- Conceição Tavares, *Do naturalismo às ciências modernas com Francisco Afonso Chaves (1857-1926)*. PhD Program in History and Philosophy of Sciences, FCUL. Foundation for Science and Technology Grant SFRH/BD/45609/2008.

## SUPERVISION OF MSc DISSERTATIONS AND OTHER DISSERTATIONS

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### COMPLETED MSc DISSERTATIONS

- Catarina Marques Madruga, *José Vicente Barbosa du Bocage (1823-1907). A construção de uma persona científica*. MSc in History and Philosophy of Science, FCUL (2013). Co-supervision with Luís Miguel Carolino. MSc in History and Philosophy of Science, FCUL (2013). Mark: 19/20 (unanimity).
- José Braga, *A Geografia de Lisboa de Orlando Ribeiro*. Co-supervision with João Carlos Garcia. MSc in History and Philosophy of Science, FCUL (2012). Mark: 19/20 (unanimity).
- Nuno Figueiredo, *Under the Carbon Spell -Diborane's puzzling structure and the emergence of boron chemistry*. MSc in History and Philosophy of Science, FCUL (2011). Mark: 19/20 (unanimity).
- Maria do Mar Gago, *The Emergence of Genetics in Portugal: J. A. Serra at the Crossroads of Politics and Biological Communities (1936-1952)*. MSc in History and Philosophy of Science, FCUL (2009). Mark: 18/20 (unanimity).  
*This MSc Thesis gave way to a paper published in Centaurus.*
- Júlia Gaspar, *A investigação no Laboratório de Física da Faculdade de Ciências de Lisboa (1929-1947)*, MSc in History and Philosophy of Science, FCUL (2008). Mark: Very Good (highest mark, unanimity).  
*This MSc Thesis gave way to a book (in Portuguese) and a paper published in Historical Studies in the Natural Sciences.*
- Conceição Tavares, *Viagens e diálogos epistolares na construção do mundo atlântico. Albert I do Mónaco (1848-1922), Afonso Chaves (1857-1926) e a meteorologia nos Açores*, MSc in History and Philosophy of Science, FCUL (2008). Mark: Very Good (highest mark, unanimity).  
*This MSc Thesis gave way to 2 books, 1 in Portuguese and 1 in French offered to Prince Albert of Monaco on the occasion of his visit to Azores in 2010.*



- José Alberto Silva, *A apropriação da filosofia natural em Teodoro de Almeida (1722-1804)*, MSc in History and Philosophy of Science, Faculty of Science and Technology, New University of Lisbon (2007). Mark: Very Good (highest mark, unanimity).  
*This MSc Thesis gave way to 2 books (in Portuguese) and a paper published in History of Science.*
- Elsa Mota, *Eddington, Einstein e a expedição à Ilha do Príncipe*, Msc in the Teaching of Physics, FCUL (2006). Mark: Very Good (highest mark, unanimity). Co-supervised with Paulo Crawford.  
*This MSc Thesis gave way to a paper published in The British Journal for the History of Science.*
- Maria das Dores Areias, *Viagens e expedições científicas dos portugueses ao continente africano durante o século XIX. Contributos para o conhecimento da geologia africana*. MSc in History and Philosophy of Science, Faculty of Science and Technology, New University of Lisbon (2004). Mark: Very Good (highest mark, unanimity).
- Eduardo Castro. *Divulgação e Filosofia da Ciência na obra de Henri Poincaré*. MSc in History and Philosophy of Science, Faculty of Science and Technology, New University of Lisbon (2002). Mark: Very Good (highest mark, unanimity).
- Carmen Diego Gonçalves, *Estilo de pensamento na produção de conhecimento científico. Um estudo de caso: o grupo dos relativistas do DFFCUL* (1999). MSc in Culture, Communication and Technologies of Information, Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE). Mark: Very Good (highest mark, unanimity). Co-supervised with Maria de Lurdes Rodrigues and António Firmino da Costa.

#### OTHER. THEMATIC PROJECT

- Elsa Mota, Paula Almeida. *Einstein e a expedição à Ilha do Príncipe*. MSc in the Teaching of Physics, FCUL (2003)

## **PRIZES AND AWARDS**

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- Ana Simões was one of the 20 women-scientists selected to be part of the Exhibition Mulheres na Ciência, Pavilhão do Conhecimento Ciência Viva, Lisboa, 8 March 2015.
- Phi Delta Gamma, Sigma Chapter Award, University of Maryland at College Park, 1993, for excellence in interdisciplinary research at the PhD level.
- Graduate School Fellowship, University of Maryland at College Park, 1992-3.
- Slater Fellowship, American Philosophical Society, Philadelphia, U.S.A., 1991-2, for a PhD research Project in the history of physical sciences in the 20th century.

## **SCHOLARSHIPS**

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- Visiting Fellow, Max Planck Institute for the History of Science (MPIWG), Berlin, Germany, January-March 2008.
- Visiting Fellow, Max Planck Institute for the History of Science (MPIWG), Berlin, Germany, July 2003.
- Senior Fellow, Dibner Institute for the History of Science and Technology, M.I.T., U.S.A., January-June 2000. Simultaneously, she was a Fulbright/Instituto Camões Fellow.
- Visiting Fellow, Department of History and Philosophy of Science, University of Cambridge, U.K., January-February 1997.
- Short-Term Fellowship, Calouste Gulbenkian Foundation, January-February 1997.
- Short-Term Fellowship, Luso-American Foundation for the Development (FLAD), and Niels Bohr Library, Center for the History of Physics, American Institute of Physics, College Park, U.S.A., October 1994.
- Short-term fellowship, Calouste Gulbenkian Foundation (FCG), November 1992-February 1993.

- Short-term fellowship, Luso-American Foundation for the Development (FLAD), September-November 1992.
- PhD Scholarship, Fullbright, 1988-93.
- PhD Scholarship, Instituto Nacional de Investigação Científica, 1988-1992.

## **RESEARCH PERIODS ABROAD SINCE PHD**

- Max Planck Institute for the History of Science (MPIWG), Department I, Berlin, 23 January- 30 March 2008.
- Max Planck Institute for the History of Science (MPIWG), Berlin, 23 January-30 November 2007.
- Department of History and Philosophy of Science/STEP Group, Athens and Aigina, 9-12 June 2005.
- C.A. Coulson Archives, Bodleian Library, Oxford, U.K., 4-8 December 2004.
- Archives of Muséum d'Histoire Naturelle, Jardin des Plantes, Paris, France, 16-17 February 2004.
- C.A. Coulson Archives, Bodleian Library, Radcliffe Science Library and Bodleian Library, Oxford, U.K., 26-30 May 2003.
- Hayden Library, M.I.T. and Widener Library, Harvard University, U.S.A., 16-19 September 2002.
- Oxford University Press Archives, and C.A. Coulson Archives, Bodleian Library, Oxford, U.K., 24-25 April 2002.
- Hayden Library, M.I.T. and Widener Library, Harvard University, U.S.A., 26 January-2 February 2002.
- C.A. Coulson Archives and L. E. Sutton Archives, Bodleian Library, Oxford, U.K., 4-8 September 2001.

- Science Museum and Imperial College Library, London, and C.A. Coulson Archives and L. E. Sutton Archives, Bodleian Library, Oxford, U.K., 17-24 July 2001.
- Science Museum and Imperial College Library, London, U.K., 14-15 July 2000.
- Dibner Institute for the History of Science and Technology, M.I.T., U.S.A., 6 January-30 June 2000.
- Dibner Institute for the History of Science and Technology, M.I.T., U.S.A., 25 February-6 March 1999.
- Archives of Académie des Sciences de Paris, Muséum d'Histoire Naturelle, Jardin des Plantes, Paris, France, 19-23 January 1998.
- Department of History and Philosophy of Science, University of Cambridge, U.K., January-February 1997.
- C.A. Coulson Archives, Bodleian Library, Oxford, U.K., 27-29 January 1997; 3 February 1997.
- Douglas R. Hartree Archives, Christ's College, Cambridge, U.K., 17-18 January 1997.
- Royal Society of London Archives, Linnean Society, British Library, London, U.K., 1-2, 4-6 February 1997.
- J.E. Lennard-Jones Archives, Churchill College, Cambridge, U.K., 12-14 December 1995.
- Nevil V. Sidgwick Archives, Lincoln College, Oxford, U.K., 6-8 December 1995.
- History of Quantum Physics Project Archives, Niels Bohr Library, American Institute of Physics, College Park, Maryland, USA, 3 days in October 1994.

## **2. PEDAGOGICAL ACTIVITIES**

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### **LECTURES**

#### **FACULTY OF SCIENCES, UNIVERSITY OF LISBON**

##### **POST-GRADUATE LEVEL**

###### **MSC PROGRAMME ON THE HISTORY AND PHILOSOPHY OF SCIENCE**

- *Historiography of Science*, 2009-10, 2010-11, 2011-2012, 2012-2013, 2013-2014, 2014-2015.
- *History of Science, from the Enlightenment to the Present*, 2003-4, 2004-5, 2005-6, 2008-9, 2009-10, 2010-11, 2011-12, 2013-2014, 2014-2015.
- *History of Science and Technology in Portugal*, 2008-2009, 2010-2011.

###### **MSc PROGRAMME ON THE TEACHING OF PHYSICS**

- *Epistemology of Science*, 1997-1998, 1999-2000, 2001-2002.

#### **FACULTY OF SCIENCE AND TECHNOLOGY, NEW UNIVERSITY OF LISBON**

##### **POST-GRADUATE LEVEL**

###### **MSC PROGRAMME ON THE HISTORY AND PHILOSOPHY OF SCIENCE**

- *Seminar in History and Philosophy of Physics*, 1996-1997, 1998-1999.

#### **AUTONOMOUS UNIVERSITY OF BARCELONA**

##### **POST-GRADUATE LEVEL**

###### **MSC PROGRAMME ON THE HISTORY OF SCIENCE AND TECHNOLOGY**

- *Science in History. Tools, Themes and Periods*. Lectures on “Science in the 20th century”, “The new social and cultural history of science,” and “Science and Technology in the European Periphery” (4h each), 24, 25 and 26 January 2007.

## **UNIVERSITY OF LISBON**

### **UNDERGRADUATE LEVEL**

- *Fundamental Texts. Renaissance to Enlightenment.* Core course of the newly created undergraduate degree General Studies (Estudos Gerais), lectures on Lavoisier, 2011-2012, 2014-2015.
- *Fundamental Texts. From Romanticism to the Present.* Core course of the newly created undergraduate degree General Studies (Estudos Gerais), lectures on Darwin and Einstein, 2012-2013, lectures on Darwin and Kuhn, 2013-2014.

## **FACULTY OF SCIENCES, UNIVERSITY OF LISBON**

### **UNDERGRADUATE LEVEL**

- *Science and Culture*, 2009-2010, 2011-2012, 2013-2014, 2014-2015. Part of the Minor in History and Philosophy of Science
- *Scientific Revolution to Big Science*, 2010-2011, 2011-2012. Part of the Minor in History and Philosophy of Science
- *Einstein, builder of the universe*, 2004-2005, 2005-2006 (taught together with Paulo Crawford)
- *Epistemological Foundations of Contemporary Physics*, 1995-1996, 1996-1997, 1997-1998.
- *History of Science, from Galileo to Einstein*, 2003-2004, 2004-2005, 2006-2007

## **FACULTY OF HUMANITIES, UNIVERSITY OF LISBON**

### **UNDERGRADUATE LEVEL**

- *Introduction to Physical Theories II*, 1996-1997, 1997-1998, 1998-1999, 2000-2001, 2001-2002, 2002-2003.

- *History and Philosophy of Science II*, 1997-1998, 1998-1999, 2000-2001
- *Introduction to Physical Theories I*, 1993-1994, 1994-1995, 1995-1996, 2000-2001, 2001-2002, 2002-2003.

## **TUTORIALS**

### **UNIVERSITY OF MARYLAND AT COLLEGE PARK**

- *History of Science*, 1989-1990, 1990-1991
- *History of Science and Technology*, 1989-1990, 1990-1991
- *Scientific Revolution in the Seventeenth Century*, 1989-1990, 1990-1991

### **FACULTY OF SCIENCES, UNIVERSITY OF LISBON**

From 1982 to 1988 and from 1993 to 1997, I delivered tutorials (as teaching assistant level I (“assistente estagiária”), teaching assistant level II (“assistente”) and Assistant Professor, in the following courses:

- *General Physics I*
- *General Physics II*
- *Physical Mechanics I*
- *General Mechanics*
- *Mathematical Methods in Physics II*
- *Statistical Physics*
- *Thermodynamics and Kinetic Theory of Gases*
- *Physics (Mathematics Course)*
- *General Physics (Biology Course).*
- *History of Ideas in Physics*

### **TECHNICAL INSTITUTE, TECHNICAL UNIVERSITY OF LISBON**

- *Mathematical Analysis I*, 1981-1982.
- *Mathematical Analysis I*, 1981-1982.

## **PARTICIPATION IN PANELS OF PROFESSORSHIPS, AGREGAÇÃO, PHD DISSERTATIONS AND MSC DISSERTATIONS**

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### AS EXAMINER

- Member of the Evaluation Committee, Position of Assistant Professorship, Stathis Arapostathis, Video Conference, 4 July 2014.
- External reporter, Position of Assistant Professorship, Faidra Papanelopoulou. June 2013.
- MSc in History of Portuguese Discoveries of Péricles Pedroso Lima. Title: “Homens de ciência a serviço da Coroa. Os intelectuais do Brasil a Academia das Ciências de Lisboa (1779 – 1822)”, Department of History, Faculty of Humanities of the University of Lisbon, 15 October 2009.
- 1st Year Examination (Curso de Formação Avançada), PhD in History of Education of Carlos Beato. Title: “O nascimento de uma disciplina. Os liceus e as ciências (1836-1895). Um estudo sobre o processo de criação e de consolidação da(s) disciplina(s) de ciências físico-naturais nos liceus portugueses”, Faculty of Sciences of the University of Lisbon (FCUL), 24 April 2008.
- PhD in History of Science of Stefan Pohl, Title: “The Circulation of Energy: Thermodynamics, National Culture, and Social Progress in Spain, 1868-1890,” Universitat Autònoma de Barcelona, 17 October 2007.
- PhD in the Teaching of Physics of Emilia Vaz. Title: “Desenvolvimento do ensino da física experimental em Portugal, 1780-1870”, University of Aveiro, 23 July 2007.
- MSc in Cultural and Political History of Mafalda Sofia das Neves Pedroso. Title: “O pensamento científico de Monteiro da Rocha (1734-1819),” Faculty of Social Sciences and Humanities, New University of Lisbon, 17 May 2005.
- “Agregação” in History and Philosophy of Sciences (Examiner for CV and Course) and Membro arguente (componente curricular e curso) of Augusto Fitas, University of Évora, 17 and 18 January 2005.



- PhD in Philosophy of Sara Bizarro. Title: “Wittgenstein and Hertz, Hertz’s Influence on Wittgenstein’s *Tractatus*”, University of Lisbon, 11 January 2005.
- MSc in History and Philosophy of Science of Amélia Taveira. Title: “Génese e instalação da Junta de Energia Nuclear”, Faculty of Sciences and Technology, New University of Lisbon, 27 October 2003.
- MSc in the Teaching of Physics of Sara Sousa Melo. Title: “A Óptica no contexto do Ensino da Física na *Faculdade de Philosophia* da Universidade de Coimbra na segunda metade do século XIX,” Faculty of Sciences and Technology, University of Coimbra, 5 March 2003.
- MSc in History and Philosophy of Science of António Lameira Title: “Do círculo do Conde de Ericeira à Academia das Ciências de Lisboa—percursos informais e formais da difusão científica em Portugal.” Faculty of Sciences and Technology, New University of Lisbon, 10 July 2000.
- MSc in History and Philosophy of Science of Vanda Leitão. Title: “A Química Inorgânica e Analítica na Escola Politécnica de Lisboa e Academia Politécnica do Porto (1837-1890),” Faculty of Sciences and Technology, New University of Lisbon, 17 June 1998.

#### AS PANEL MEMBER

- PhD Defense Committee, PhD in History and Philosophy of Science of Silvia di Marco. Title: “Towards an Epistemology of Medical Imaging”. FCUL, 18 May 2015. **As President.**
- PhD Defense Committee, PhD in History and Philosophy of Science of Inês Gomes. Title: “Os Museus Escolares de História Natural: Análise histórica e perspectivas de futuro (1896-1975)”. FCUL, 18 May 2015. **As President.**
- PhD Defense Committee, PhD in History and Philosophy of Science of José Alberto Silva. Title: “A Academia Real das Ciências de Lisboa (1779-1834). Ciências e Hibridismo numa Periferia Europeia”. FCUL, 20 March 2015. As member and supervisor.
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Catarina Marques Madruga. Title: “A

África de José Vicente Barbosa du Bocage. *Administração Colonial e Expertise Científico (1865-1892)*”, FCUL, 10 March 2015. As member and co-supervisor.

- PhD Defense Committee, PhD in History and Philosophy of Science of Júlia Gaspar. Title: “Percursos da Física e Energia Nucleares na Capital Portuguesa em Portugal. Ciência, Poder e Política, 1947-1973”. FCUL, 18 December 2014. As member and supervisor.
- 2nd Year Intermediate Examination, PhD in History and Philosophy of Science of Nuno Figueiredo, PhD in History and Philosophy of Science. Title: “Abstracção matemática como forma de compreensão: o papel de Christopher Longuet-Higgins na construção e legitimação da química quântica”, FCUL, 21 July 2014. As member and supervisor.
- PhD Defense Committee, PhD in History and Philosophy of Science of Cláudia Ribeiro. Title: “A Presença da Metafísica na Ciência”. Reitoria, University of Lisbon, 30 May 2014. **As President.**
- PhD Defense Committee, PhD in History and Philosophy of Science of Francisco Romeiras. Title: “Das ciências naturais à genética: a divulgação científica na revista Brotéria (1902 - 2002) e o ensino científico da Companhia de Jesus nos séculos XIX e XX em Portugal”. Reitoria, University of Lisbon, 3 April 2014. **As President.**
- MSc in History and Philosophy of Science of Gianriccardo Pastore, FCUL. Title: “Astrologia e Inquisição em Portugal nos séculos XVI e XVII”, FCUL, 11 December 2013. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Nuno Figueiredo. Title: “Abstracção matemática como forma de compreensão: o papel de Christopher Longuet-Higgins na construção e legitimação da química quântica”, FCUL, 9 July 2013. As member and supervisor.
- 3rd Year Intermediate Examination, PhD in History and Philosophy of Science of Júlia Gaspar, PhD in History and Philosophy of Science. Title: “Percursos da Física e Energia Nucleares na Capital Portuguesa em Portugal. Ciência, Poder e Política, 1947-1973”, FCUL, 24 June 2013. As member and supervisor.

- 3rd Year Intermediate Examination, PhD in History and Philosophy of Science of José Alberto Silva, PhD in History and Philosophy of Science. Title: “A Academia Real das Ciências de Lisboa (1779-1834). Ciências e Hibridismo numa Periferia Europeia”, FCUL, 11 June 2012. As member and supervisor.
- 2nd Year Intermediate Examination, PhD in History and Philosophy of Science of Júlia Gaspar. Title: “Percursos da Física e Energia Nucleares na Capital Portuguesa em Portugal. Ciência, Poder e Política, 1947-1973”, FCUL, 22 February 2012. As member and supervisor.
- MSc in History and Philosophy of Science of Nuno Figueiredo, FCUL. Title: “Under the Carbon Spell -Diborane's puzzling structure and the emergence of boron chemistry”, FCUL, 22 December 2011. As member and supervisor.
- MSc in History and Philosophy of Science of Ana María Marín Farrona. Title: “Bento Sanches Dorta Representante Português del Progreso Científico de la Ilustración”, FCUL, 14 November 2011. **As President.**
- 2nd Year Intermediate Examination, PhD in History and Philosophy of Science of Conceição Tavares. Title: “Do naturalismo às ciências modernas com Francisco Afonso Chaves (1857-1926)”, FCUL, 7 October 2011. As member and supervisor.
- MSc in History and Philosophy of Science of Thiago Henrique Santos. Title: “Comunicação da Ciência e Web 2.0”, FCUL, 26 May 2011. **As President.**
- 2nd Year Intermediate Examination, PhD in History and Philosophy of Science of José Alberto Silva. Title: “A Academia Real das Ciências de Lisboa (1779-1834). Ciências e Hibridismo numa Periferia Europeia”, FCUL, 4 April 2011. As member and supervisor.
- MSc in History and Philosophy of Science of Pedro Caldas. Title: “Perspectiva e Conhecimento,” FCUL, 10 March 2011. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Júlia Gaspar. Title: “Percursos da Física e Energia Nucleares na Capital Portuguesa em Portugal. Ciência, Poder e Política, 1947-1973”, FCUL, 18 January 2011. As member and supervisor.
- Written Report on the PhD Dissertation of Jesus Amillano. Title: “Astrologia y Medicina para todos los públicos: las polémicas entre Benito Feijoo, Diego de

Torres y Martin Martinez y la Popularizacion de la ciência en la España de principios del siglo XVIII”, Universitat Autonoma de Barcelona, September 2010.

- MSc in History and Philosophy of Science of Ana Bastião. Title: “Elementos para o Estudo da Náutica Portuguesa do séc. XVII. A Arte Náutica do Códice 11006 da Biblioteca Nacional de Portugal,” FCUL, 22 December 2010. **As President.**
- MSc in History and Philosophy of Science of Maria Manuel Costa. Title: “As Virtudes Cognitivas dos Modelos 3D no Desenvolvimento da Química. Um estudo de caso – Van’t Hoff e a estereoquímica”. FCUL, 22 December 2010. **As President.**
- MSc in History and Philosophy of Science of Luís Tirapicos. Title: “O Telescópico Astronómico em Portugal no Século XVIII”, FCUL, 20 December 2010. **As President.**
- MSc in History and Philosophy of Science of Maria Teresa Homem. Title: “Energia e Medicina em Robert Mayer”, FCUL, 6 December 2010. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Conceição Tavares. Title: “Do naturalismo às ciências modernas com Francisco Afonso Chaves (1857-1926)”, FCUL, 10 March 2010. As member and supervisor.
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of José Alberto Silva. Title: “A Academia Real das Ciências de Lisboa (1779-1834). Ciências e Híbridismo numa Periferia Europeia”, FCUL, 21 January 2010. As member and supervisor.
- MSc in History and Philosophy of Science of Maria do Mar Gago. Title: “The Emergence of Genetics in Portugal: J. A. Serra at the Crossroads of Politics and Biological Communities (1936-1952)”, FCUL, 11 December 2009. **As President** and supervisor.
- MSc in History and Philosophy of Science of Miguel Fezas Vital. Title: “A bioquímica. Uma ciência de fronteira,” FCUL, 30 November 2009. **As President.**

- MSc in History and Philosophy of Science of Cláudia Ribeiro. Title: “Electrões inobserváveis e estrela invisíveis. Em torno da questão do realismo científico: Ana Musgrave / Bas C. van Fraassen”, FCUL, 29 June 2009. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Helder Pinto. Title: “A Academia Real de Marinha e do Comércio da Cidade do Porto, predecessora da Academia Politécnica do Porto”, FCUL, 14 January 2009. **As President.**
- MSc in History and Philosophy of Science of Júlia Gaspar. Title: “A investigação no Laboratório de Física da Faculdade de Ciências de Lisboa (1929-1947)”, FCUL, 19 September 2008. **As President** and supervisor.
- MSc in History and Philosophy of Science of Ana Gaspar. Title: “O lugar da Psicanálise na obra de Gaston Bachelard. De *A formação do espírito científico* a *Psicanálise do fogo*,” FCUL, 11 July 2008. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Teresa Nobre de Carvalho. Title: “O mundo natural asiático aos olhos do ocidente. Contribuição dos textos ibéricos quinhentistas para a construção de uma nova consciência europeia sobre a Ásia,” FCUL, 10 April 2008. **As President.**
- MSc in History and Philosophy of Science of Conceição Tavares. Title: “Viagens e diálogos epistolares na construção do mundo atlântico. Albert I do Mónaco (1848-1922), Afonso Chaves (1857-1926) e a meteorologia nos Açores”, FCUL, 16 January 2008. **As President** and supervisor.
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Bruno Almeida. Title: “A influência da obra de Pedro Nunes na náutica dos séculos XVI e XVII: um estudo de transmissão de conhecimento”, FCUL, 15 January 2008. **As President.**
- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of Alexander Gerner. Title: “Investigação Filosófica da Atenção,” FCUL, 7 January 2008. **As President.**
- MSc in History and Philosophy of Science of Ana Paula Silva. Title: “Metamorfoses do conceito de abdução em Peirce”, FCUL, 19 December 2007. **As President.**

- 1st Year Intermediate Examination (Curso de Formação Avançada), PhD in History and Philosophy of Science of João Luís Cordovil. Title: “O que é uma Partícula Quântica? Implicações Ontológicas e Epistemológicas do Conceito de Partícula Quântica nas Interpretações de Copenhaga e de De Broglie-Croca”, FCUL, 11 October 2007. **As President.**
- MSc in History and Philosophy of Science of José Alberto Silva. “A apropriação da filosofia natural em Teodoro de Almeida (1722-1804)”, Faculty of Sciences and Technology, New University of Lisbon, 27 July 2007. As Member and Supervisor.
- MSc in the Teaching of Physics of Elsa Mota. Title: “Eddington, Einstein e a expedição à Ilha do Príncipe”, FCUL, July 2006. As member and co-supervisor.
- MSc in History and Philosophy of Science of Pedro Raposo. Title: "A Vida e a Obra do Almirante Campos Rodrigues", FCUL, September 2006. **As President.**
- MSc in Philosophy of Francisco Chorão. Title: “O conceito de *Physis* no Livro II da *Physica* de Aristóteles,” Department of Philosophy, Faculty of Humanities, University of Lisbon, 26 April 1999.
- Panel of Equivalence of PhD Degree (awarded by the Technical University of Berlin to the PhD Degree in Portuguese universities) of Ricardo Coelho, 14 March 1997.

### **3. ACTIVITIES RELEVANT TO THE MISSION OF THE HIGHER EDUCATION INSTITUTION**

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#### **MANAGEMENT AND ADMINISTRATIVE DUTIES**

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- Pro-Rector, Member of the Rectors’ Team, since 2014.
- Member of the Senate of the University of Lisbon, 2013-4.
- Coordinator of the Unit for the History and Philosophy of Science (Secção Autónoma de História e Filosofia das Ciências), FCUL, since 1 September 2012.

- Member of the Coordination Council (Conselho Coordenador) of the Faculty of Sciences of the University of Lisbon (FCUL), since 1 September 2012.
- Member of the General Council (Conselho Geral) of the Foundation of the Faculty of Sciences of the University of Lisbon (FFCUL), 2011-2014.
- Member of the Scientific Council (Conselho Científico) of the Faculty of Sciences of the University of Lisbon (FCUL), 2011-12, and since 1 September 2012.
- FCUL Coordinator of the Undergraduate Degree Course General Studies (Estudos Gerais), jointly offered by the Faculty of Humanities, Faculty of Sciences and Faculty of Fine-Arts, University of Lisbon, 2011-2014.
- Member of the Executive Committee of the Unit for the History and Philosophy of Science (Secção Autónoma de História e Filosofia das Ciências), FCUL, 2007-2009.
- Member of the Executive Committee of the Department of Physics, FCUL, 2005- 2007.
- Coordinator of the MSc Program in History and Philosophy of Science, FCUL, 2003-2012.

## **OUTREACH ACTIVITIES**

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### COORDINATION OF EXHIBITIONS

- Curator of Exhibition “Livros de Ciências. Ciências em Livros” and editor of respective Catalogue, Faculty of Sciences, University of Lisbon, forthcoming September-December 2015.
- Curator of Exhibition “723+1”, Commemoration of the First Anniversary of the new University of Lisbon, Entrance Hall, Rectory Building, 25 July-16 October 2014.
- Member of the Scientific Commission of the Exhibition “Traços da Ciência”, Commemoration of the Centenary of the Faculty of Sciences of the University

of Lisbon (FCUL), Building C6, April-July 2011, Building C4, since September 2011.

- Member of the Scientific Commission of the Exhibition “À Luz de Einstein”, Fundação Calouste Gulbenkian, 3 October 2005-15 January 2006. Responsible for the Scientific Conception of the Entrance Room “Biblioteca do Saber”. The exhibition was afterwards displayed at Coimbra, Museu de Ciência, Universidade de Coimbra.
- Member of the Scientific Commission of the Exhibition “Einstein entre Nós”, Library of the University of Coimbra, October-November 2005.

#### BOARDS AND COMMISSIONS

- Member of the Commission for the Celebration of the Centenary of the Faculty of Sciences of the University of Lisbon (FCUL), 2006-2008.
- Member of the Commission for the Celebration of the Centenary of the University of Lisbon, 2006-2011.

#### PROGRAMS FOR HIGH SCHOOL AND TRAINING OF HIGH SCHOOL TEACHERS

- Coordination of the Team which prepared the syllabus for the High School Course *Topics of the History of Science*, Opção de Oferta da Escola com Programa a Nível Nacional, with Henrique Leitão, Luís Saraiva and Palmira Fontes da Costa, 2002-2003.
- Training of High School Teachers, Program *New History Programs in High School* (“Trabalhar com os Novos Programas de História do Ensino Secundário”), 4h sessions on the topic “Diversity of scientific practices, 17th to 19th centuries” (“Diversidade das práticas científicas, séculos XVII a XIX”), Escola Secundária Sebastião e Silva, Oeiras, 13 July, and 13 September 2004.

#### INVITED LECTURES AT HIGH SCHOOLS

- Ana Simões. “Big Science na Banda Desenhada Tintim”, *Colégio Integrado Montemaior*, Loures, 20 February 2015.



- Ana Simões. “Ciência e Cientistas na Banda Desenhada Tintim”, Escola EB2/3, dos Olivais, 11 April 2013.
- Ana Simões, “O movimento em Aristóteles, Galileu e Newton,” *Escola Secundária Casquilhos*, Barreiro, 26 November 2008.
- Ana Simões, “O movimento em Aristóteles, Galileu e Newton,” *Auditório Municipal Augusto Cabrita*, Barreiro, 21 November 2006.

#### SCIENTIFIC REVISIONS AND TRANSLATIONS

- Scientific Revision of the Books in Series History and Philosophy of Science (Colecção História e Filosofia das Ciências), Porto Editora, since 2003.
- Scientific Revision of the Books in Series Science and Enlightenment (Colecção Ciência e Iluminismo), Porto Editora, since 2003.
- Collaboration in the Scientific Revision of the translation of the *Oxford Dictionary of Philosophy* by S. Balckburn (Lisbon: Gradiva, 1997).
- Translation into Portuguese of the paper “A Natureza da Ciência, uma Perspectiva Iluminista Pós-Moderna,” by R. Giere, *Colóquio Ciências*, 1990.
- Translation into Portuguese of the book *Os Três Primeiros Minutos*, S. Weinberg (Lisbon: Gradiva, 1988).

#### PARTICIPATION IN TV AND RADIO PROGRAMS

- The Portuguese members of the Royal Society of London, SIC Notícias, Falar Global, 12 July 2012.
- TV Program about Correia da Serra, RTPN, 7 July 2007.
- TV Program about the play Copenhagen by M. Frayn, RTPN, 12 May 2005.
- Conversation with Ana Aranha about the book *Cidadão do Mundo. Uma biografia científica do Abade Correia da Serra*, À Volta dos Livros, Antena 1, 11 May 2007

## BOOK PRESENTATIONS AND DEBATES

- Participation in the Panel Presentation of the book *Ciência, Prestígio e Devoção. Os Jesuítas e a Ciência em Portugal (séculos XIX e XX)* authored by Francisco Malta Romeiras, with Henrique Leitão, Francisco Romeiras and Henrique Mota, Livraria Ferin, 10 February 2015.
- Participation in the Panel Presentation of the book *Citizen of the World. A Scientific Biography of Abbé Correia da Serra*, with Ana Carneiro, Maria Paula Diogo and José Luís Cardoso, FLAD, 27 March 2012.
- Participation in the Panel Presentation of the book *O Passado das Ciências como História*, with Ana Carneiro, and Kostas Gavroglu, FCUL, 12 March 2009.
- Participation in the Panel Presentation of the book *Cidadão do Mundo. Uma biografia científica do Abade Correia da Serra*, with Ana Carneiro, Maria Paula Diogo, Henrique Leitão, José Luís Cardoso, and Fernando Catarino, FNAC, Centro Comercial Colombo, 27 March 2007.
- Participation in the Debate about the play *Galileo* by Bertolt Brecht, Teatro Aberto, with Rosalia Vargas and José Saldanha Sanches, 27 October 2006
- Presentation of the book *O Legado de Prometeu* by Raquel Gonçalves, with Ana Ponces and Dinis Pestana, Lisbon, Livraria Escolar Editora, 28 April 2006.
- Presentation of the book *Einstein, Albert Einstein*, by Jorge Dias de Deus and Teresa Peña, together with Francisco Louçã, Lisbon, Palácio Galveias, 6 July 2005.

## OTHER ACTIVITIES

- Memory of the Faculty of Sciences. Proposal of names of former professor-scientists of the Faculty of Sciences to christen various lecture halls of the Faculty of Sciences (C3 and C6 buildings) with the corresponding 1-paragraph explanatory text.