

FCT Relatório Científico 2010 Centro de Investigação em História e Filosofia da Ciência e da Tecnologia

| General Information | |
|---|--|
| Name of Research Unit: | (HIS-LVT-286) Centro Interuniversitario de Historia das Ciencias e da Tecnologia (CIUHCT) |
| Coordinator: | Maria Paula Pires dos Santos Diogo |
| Main Scientific Domain: | História |
| Other Subdomains: | n/a |
| Host Institutions | |
| Leading Host Institution: | Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa |
| Other Institutions Involved: | Fundação da Faculdade de Ciências da Universidade de Lisboa |
| Objectives & Achievements | |
| Unit Description | |
| <p>The Centro Interuniversitário de História das Ciências e da Tecnologia (CIUHCT) comprises two research groups allocated to two different host institutions (FCT/UNL and FC/UL).</p> <p>These institutions have recognized the importance of this field by creating respectively the Unit of History and Philosophy of Science (Department of Social Sciences) and the Autonomous Unit of History and Philosophy of Science. The two research groups in the Unit share a similar designation - Science and Technology (i) and (ii) - to stress that both have a common research agenda, although including eventually specific research topics. Another important difference relates to their association to different institutional settings.</p> <p>Concerning scientific management, the unit applies the rules outlined by the FCT/MCTES. Evaluation by international consultants selected by the unit among outstanding scholars in the area of History of Science and Technology is considered particularly important to secure the unit's high standards of scholarship.</p> <p>According to the Unit's regulations, both the Scientific Coordination and Management will in 2011 change from the FCT/UNL to the FC/UL, honouring the interuniversity character of the unit..</p> | |
| General Objectives | |
| <p>The CIUHCT aims at promoting research in the History of Science and Technology according to international standards of scholarship and at contributing to the development and consolidation of this discipline in Portugal.</p> <p>Already established but still a growing area in Portugal, the very existence of this research unit is of paramount importance not only to support a permanent and consistent research practice, but also to promote a dialogue and exchange of information and views among researchers.</p> <p>Furthermore, the unit aims at contributing to the consolidation of a strong scientific community by actively participating in the education of students (graduate and post-graduate level) as well as by enrolling in outreach activities (popularization, exhibits). The CIUHCT is involved in one MSc programs and two PhD programs in the field the only existing in the Portugal. We envisage the articulation of a joint PhD program, to be expanded in the coming years to encompass several universities. We will also assess the advantages to fuse the PhD programs into a more ambitious one, taking advantage of our complementary subfields of expertise. We will also continue to engage in collaboration with foreign graduate programs in Europe and Brazil, as well as in other forms of graduate training such as Summer Schools (senior members of the unit participate as lecturers and junior members as students).</p> <p>The unit aims at articulating discussion at the conceptual and methodological levels with research on specific topics especially focused on, but not restricted to, Portuguese history. In any case this focus does not preclude the integration of Portuguese research in international groups and</p> | |

Objectives & Achievements

initiatives. On the very contrary we consider our main mission to present our local case studies in a format relevant to an international audience. This international dimension has been greatly encouraged through the dissemination of research carried out locally in international publications as well as in the participation and organisation of national and international meetings and international networks.. The unit shares a conception of the field encompassing both more traditional and more recent approaches, including material culture, instrumentation and collection based history of science, material reconstructions, technoscience, all framed in the context of methodological pluralism. Especially important has been the input from the framework developed within the international group STEP (Science and Technology in the European Periphery) and ToE (Tensions of Europe) and the move from relying on the concept of transmission and the perspective of the centre to the concept of appropriation and the perspective of the periphery. We also explore relations between the History of Science and Technology and the Philosophy of Science and the role of scientific-technological structures in contemporary thinking.

Main Achievements during the year of 2010

The research agenda of the Unit for this period reveals continuity with that of former years. In the national context, the Unit's work contributed to an ever growing professionalization and institutionalization of the history of science and technology in Portugal. Furthermore, it engaged in bringing to the forefront of Portuguese History the role played by scientists and engineers.

In this context, the Unit was responsible for the organization of the II Encontro Nacional de História das Ciências e da Tecnologia (2nd National Meeting on History of Science and Technology). This meeting followed the initial meeting organized by the Ministry of Science and Technology/Foundation of Science and Technology and testifies to the importance of CIUHCT in the national context and its ability to contribute to strengthen a national community able to meet progressively international standards of scholarship. A very significant number of members attended the Meeting and the community was able to outline a strategy for the coming years.

Besides on-going international and FCT projects main projects building a common identity for the Unit included: contributions to the international journal HoST, its accompanying annual workshops and the continuation of monthly HoST conferences; online accessibility of primary sources. As far as the database project on Portuguese scientists and engineers the first group of entries was completed in 2010 and is expected to be available online during 2011.

Work involving members of both groups of the unit has been reinforced through the participation in projects on popularization of science and technology, on the commemorations of the centenary of the University of Lisbon, and on instruments, on the preparation of an exhibit, on talks at international meetings and on the writing of joint papers.

Stress on internationalization continued to be a priority. Specifically the role played by the so-called peripheral countries in the development of science and technology as crucial parameters in shaping the identity of modern Europe is a methodological guide of the different case studies explored.

Networking activities were deemed crucial to the Unit's development. Especially relevant is the participation in networks such as Science and Technology in the European Periphery (STEP), Tensions of Europe (ToE), International Network of Engineering Studies (INES) in the framework of which conceptual issues on Europe's identity and the changing relations between so-called centres and peripheries are addressed; the Network of Portuguese and Brazilian museums of science for the emphasis on material culture, collections-based history of science, and specifically on the role of university collections within Europe.

Another dimension of the professionalization of the discipline in Portugal, considered a priority for this Unit, is the on-going participation in the formation of graduate students and young scholars (scholarship holders, Post-Docs etc.). Supervision of MSc and PhD dissertations continued as well as a journal club put forward by graduate students. In the framework of Erasmus Program the unit established agreements with the Universities of Barcelona, Valencia, Athens and Eindhoven. Furthermore senior members of CIUHCT participated in graduate programs abroad and both senior and junior members participated in international summer schools

Activities

Integrative/multidisciplinary activities during the year of 2010

Our interdisciplinary activities included individual and series of lectures, publications, and the on-going project of translation of ancient scientific texts. We aimed at establishing not only bridges between History of Science and Technology and nearby fields of research (namely Material Culture and Heritage) but also with more "distant" areas such as Educational Sciences, and Law. Among multidisciplinary activities, Philosophy, Art, and Literature continued to be particularly relevant as one of the research groups explicitly includes research with training in these areas.

These activities aimed at both the general public and the scholarly community.

INDIVIDUAL LECTURES

Activities

* Carlota Dias, Pedro Palhares, J. N. SILVA, "Mathematical Games for the Blind", Board Game Studies Colloquium XIII, Paris, April 2010.

* Dores Ferreira, Pedro Palhares, J. N. SILVA, "The ability to play games and its connection with pattern recognition", Board Game Studies Colloquium XIII, Paris, April 2010.

* J.N. SILVA, "Mathematical Games", 25th ICCP World Conference - Children's Play: New Goals for the Future, FCG, Lisbon, 16 June 2010.

SETS OF LECTURES

* Seminars of Material Culture, Museu da Politécnica da Universidade de Lisboa (monthly)

* Seminars of Portuguese Scientific Heritage, Museu da Politécnica da Universidade de Lisboa (monthly)

* HoST conferences (monthly)

CONFERENCES

D. SCARSO, J. L. CÂMARA LEME, Claude Lévi-Strauss Filósofo, Instituto Franco Português - Lisboa, 17 May 2010.

OTHER PROJECTS

* Project of translation of texts from Classical Antiquity, East Asia and China

PUBLICATIONS

A. M. NUNES DOS SANTOS

* "On the Responsibility of the Scientist", FRONESIS, vol 17

* "Breves notas para a recordação do meu mestre Rómulo de Carvalho", in Fe.C. Martins, L. Medeiros, M. Parreira et al. (orgs.), Departamento de Estudos Portugueses, UNL/FCSH, Memórias Gestos Palavras, Textos oferecidos a Teresa Rita Lopes, Assírio & Alvim, 2010, pp. 89-98.

C. AURETTA, A.M. NUNES DOS SANTOS

* "Ficção e Novas Tecnologias, Meditação sobre a Bioarte: Rizoma, Reflexividade e Responsabilidade na Obra de Fernando Pessoa, Lee Mingwei e Symbiotica", in Grupo de História e Sociologia da Ciência do Centro de Estudos Interdisciplinares do Século XX, CEIS20 (org.), Ciências da Vida, Tecnologias e Imaginários, Na era da biodiversidade, Homenagem ao Prof. Doutor Carlos Alença (1934-2010). Universidade de Coimbra, 2010, pre-print, pp. 45-59.

C. AURETTA, "Auto-Entrevista ao docente Christopher Damien Aretta (porque o docente também «voa» outro)", in F.C. Martins, L. Medeiros, M. Parreira et al. (orgs.), Departamento de Estudos Portugueses, UNL/FCSH, Memórias, Gestos, Palavras, Textos oferecidos a Teresa Rita Lopes. Lisboa: Assírio & Alvim, 2011, pp. 159-169.

D. SCARSO

* "Andrea Camilleri: Le cours des choses est sinueux"/"Andrea Camilleri: The course of things is sinuous"/"Andrea Camilleri: Il corso delle cose è sinuoso", Chiasmi International. Trilingual Studies Concerning the Thought of Merleau-Ponty, n. 12, 395-400, 401-406, 407-412.

*"Dialéctica e ultrabolchevismo: a ruptura entre Merleau-Ponty e Sartre", in Actas das Jornadas de Jovens Investigadores de Filosofia - Primeiras Jornadas Internacionais, Grupo Krisis, 2010, Vol. 1, pp. 131-150. Disponível em: http://www.krisis.uevora.pt/edicao/actas_vol1.pdf

Outreach activities during the year of 2010

Our outreach activities included individual lectures (15) and sets of lectures, publications (3 books, 13 papers), the supervision of 2 collections História e Filosofia da Ciência and Ciência e Iluminismo by the publisher Porto Editora, exhibitions and respective catalogues (3) and various sort of activities (books' presentations, TV and radio programs).

Activities

INDIVIDUAL LECTURES

Fifteen individual lectures were delivered by several Unit's members (A. SIMÕES, A. M. NUNES DOS SANTOS, C. AURETTA, H. LEITÃO, J. M. MALHÃO PEREIRA, J. N. SILVA,, T. S. MOTA,) in various city halls, British Embassy, Fundação Calouste Gulbenkian, secondary schools, universities, meetings and coffee shops. Topics ranged from the role of history of science, various Portuguese or foreign personalities of the scientific or humanities domains or certain episodes of the history of science in their relation to the political context

SET OF LECTURES

Graduate students continued to organize the Journal Club sessions open to all interested. In each session a paper is presented by one graduate student followed by discussion (<http://www.ciuhct.com/index.php/pt/ciclos-de-conferencias/journal-club.html>).

PUBLICATIONS FOR THE GENERAL PUBLIC

A. SIMÕES and H. LEITÃO coordinate the Collections História e Filosofia da Ciência and Ciência e Iluminismo

A. SIMÕES, "Copérnico ou Galileu: um problema mal colocado" *Gazeta de Física*, 33(1) (2010), 12-15.

C. TAVARES, Albert I de Monaco, Afonso Chaves et la Météorologie aux Açores, Ponta Delgada: Presidence du Gouvernement Régional des Açores, 2010.

H. LEITÃO

* Galileu Galilei. *Sidereus Nuncius: O Mensageiro das Estrelas* (Lisboa: Fundação Calouste Gulbenkian, 2010). Translation, introduction and notes.

*Chamo-me... Pedro Nunes (Lisboa: Didáctica Editora, 2010)

"Longemira: Os primeiros telescópios em Portugal", *Gazeta de Física*, 33 (2010), 17-21.

J. N. SILVA, regular contributor to *Gazeta de Matemática* and *Boletim da Sociedade Portuguesa de Matemática* (7 papers). He is director of *Jornal de Matemática Elementar* since January 2007.

M. E. CALLAPEZ

*"Os Caminhos da CIRES – O seu 50º Aniversário", *Terras de Antua – Histórias e Memórias do Concelho de Estarreja*, Câmara Municipal de Estarreja, 4 (2010), 137-155.

S. GESSNER

*"Para a história das séries infinitas – a tradução de um estudo sobre um aspecto matemático da obra de Álvaro Tomás de Lisboa", *Boletim da SPM*, 62 (2010), 61-66.

* "H. Wieleitner, 'Para a história das séries infinitas na Idade Média cristã', *Boletim da SPM*, 62 (2010), 67-87.

T. S. MOTA

*"Carlos Teixeira" in N/a, *Celebration of the 1st Centenary of Carlos Teixeira's Birth*, Fafe, Municipality of Fafe, 2010

EXHIBITIONS WITH CATALOGUES

* C. TAVARES, "Ilhas & História Natural", Biblioteca Pública and Arquivo Regional de Ponta Delgada and Museu Carlos Machado, 5 February-18 May

* L.M. CAROLINO, T. S. MOTA, "Medir os Céus para Dominar a Terra", Museum of Science of the University of Lisbon, 23 October 2009-30 August

Activities

* P. FONTES DA COSTA, "Arte Médica e Imagem do Corpo", Portuguese National Library, 7 April-30 July

Funding

| | 2008 | 2009 | 2010 |
|------------------------|------------------|-------------------|-------------------|
| LA FCT | 0,00 | 0,00 | 0,00 |
| Units FCT | 66.825,00 | 77.810,00 | 55.500,00 |
| Projects FCT | 21.152,52 | 132.063,91 | 132.193,00 |
| Other (National) | 3.000,00 | 0,00 | 15.000,00 |
| Other (International) | 2.000,00 | 6.500,00 | 16.110,00 |
| National Industry | 0,00 | 0,00 | 0,00 |
| International Industry | 0,00 | 0,00 | 0,00 |
| | 92.977,52 | 216.373,91 | 218.803,00 |

General Indicators

| | 2006 | 2007 | 2008 | 2009 | 2010 | Total |
|--|-------|-------|-------|-------|-------|-------|
| No. of Researchers Proposed | 0,00 | 0,00 | 1,00 | 0,00 | 0,00 | 1,00 |
| No. of Researchers Hired (LA) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Balance | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| No. of Researchers Hired (Ciência Programme) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| No. of Researchers integrated with PhD | 15,00 | 18,00 | 21,00 | 20,00 | 27,00 | |
| Training Masters (Master thesis completed) | 4,00 | 9,00 | 2,00 | 2,00 | 0,00 | 17,00 |
| Training PhDs (PhD thesis completed) | 0,00 | 2,00 | 2,00 | 1,00 | 3,00 | 8,00 |

Researchers Hired

| Name | Start Date | End Date | Other Institution |
|------------------------|------------|----------|-------------------|
| No researchers found.. | | | |

Technical Personnel Hired

| Name | Start Date | End Date | Other Institution |
|---------------------------------|------------|----------|-------------------|
| No technical personnel found... | | | |

Additional Comments**Research Groups**

| Reference | Title / Principal Investigator |
|-----------------|---|
| RG-LVT-286-1116 | Ciencia e Tecnologia (i): estudos históricos e interdisciplinares (Maria Paula Pires dos Santos Diogo) |
| RG-LVT-286-1600 | Ciência e Tecnologia (ii): estudos históricos e cultura material (Ana Isabel da Silva Araújo Simões) |

FCT Relatório Científico 2010 Centro de Investigação em História e Filosofia da Ciência e da Tecnologia

| Group Description | |
|--|--|
| Title of Research Group: | (RG-LVT-286-1116) Ciência e Tecnologia (i): estudos históricos e interdisciplinares |
| Principal Investigator: | Maria Paula Pires dos Santos Diogo |
| Main Scientific Domain: | História |
| Group Host Institution: | Faculdade de Ciências e Tecnologia - Universidade Nova de Lisboa |
| Funding, source, dates | |
| Funding, source, dates | |
| Funding: | |
| 1. I&D UNIT (Pólo FCT/UNL):33 200€ | |
| 2. FCT | |
| * A. CARNEIRO, Das Comissões Geológicas aos Serviços Geológicos (1848-1970): História e Herança Científica; 2010 Budget: 1.100€ | |
| * M. P. DIOGO, The Popularization of Science and Technology, C2007/FCT 453 (2007-2012); Total Budget: Post-doc position during 5 years (Researcher: Maria Antónia Pires Almeida) | |
| 3. INTERNATIONAL PROJECTS | |
| * M.P. DIOGO, Manuais de Engenharia na Península Ibérica, nos séculos XVII e XVIII: um estudo comparativo. A.I. Luso-Espanhola E75-09. 2010 Budget: 1 500,00 € | |
| * M. P. DIOGO (co-author), Making Europe. Technology and Transformations 1850-2000 book series. Foundation for the History of Technology, Eindhoven University of Technology. 2010 Budget: 7 000,00 € | |
| *M. P. DIOGO, Ingeniería e Cultura Científica en Catalunya y España, Ministerio da Educación y Ciencia (Espanha). No budget in 2010 | |
| Objectives & Achievements | |
| Objectives | |
| <p>This research group shares a common agenda with the twin research line of this unit, made visible by the scientific organization of this Unit. Participation in collective projects aims at building a common identity for the Unit and includes the maintenance of a common web-site; database of Portuguese scientists and engineers; HoST workshops and conferences; organization of II Encontro Nacional de História das Ciências e Tecnologia; pre-print series; and finally accessibility of primary sources.</p> <p>The implementation of projects including members of the 2 research groups is deemed crucial. Such is the case of four projects (popularization of science, institutional histories, collection based history of science and history of astronomy) associated partly with two Post-Docs under Compromisso com a Ciência 2007 and two FCT projects (popularization, collection-based history of science) which will give way to publications involving members of the 2 research groups.</p> <p>Most of all we share a common intellectual agenda which aims at bringing to the forefront of Portuguese History the role played by scientists and engineer and at analyzing the role played by the so-called peripheral countries in the development of science and technology as crucial parameters in shaping the identity of modern Europe, namely by using the concepts of networking, circulation and appropriation of knowledge.</p> | |

Objectives & Achievements

Together with our twin research line we are working on the following topics:

1. Popularization of science and technology in Portugal (18th-20th century)
2. Institutions for the Teaching of Science and Technology in Portugal
3. Collection based History of Science
4. History of Astronomy

Specific to this research group are the following research topics:

1. History of Geology
2. History of Life Sciences
3. History of Medicine (mostly medical books in Portugal and History of the Body in the Seventeenth and Eighteenth-centuries)
4. Engineering and Medicine in the Portuguese Empire
5. Engineering in Portugal
6. Intersections of science, art, literature, ethics, philosophy and society

All research projects have outputs, namely publications, organization of conferences and exhibits (see Group Productivity).

Main Achievements

We committed ourselves to contribute to unveil the role played by science and technology in Portuguese history, mainly from the 17th to the mid 20th century, by exploring some specific topics on an interdisciplinary basis. The number of publications (31), papers presented at meetings (50), and sessions/conferences organized by the team members (6) speak by themselves (see group productivity). The significant number of lectures by invitation, both in Portugal and abroad, is also the recognition of the quality of the research group.

If publications are good pointers to the productivity of our research group, some of our main 2010 activities were not made visible through our publication output. In fact, there are a set of books and articles prepared, submitted and accepted during 2010, both nationally and internationally, and which will be published in 2011.

We continued to emphasize internationalization, and specifically by making known Portuguese case studies to the international community of historians of science and technology. Our strategy to rewrite the role of Portugal in the international context has been anchored in: (i) publications in international volumes, edited volumes and peer-reviewed journals; (ii) presentation of papers in international conferences; (iii) organization of sessions and conferences on topics related to the Portuguese case; (iv): editorial activity; (v) active participation in international research networks. We also engaged in conceptual and methodological international debates, namely concerning issues such as the relationship between centre(s) and periphery(ies), the meaning of being a scientist or an engineer in the periphery of Europe, the role played by the “tools of the Empire” in building up the Portuguese and the European identities.

We continued to contribute to enlarge the national community of historians of science and technology, by encouraging new scholars to participate in our research projects and by inviting them to present their research to an international audience, notably within PhD. programs. Presently we have 10 on-going PhDs and 2 Post-Doc.

Junior scholars and students are strongly encouraged to participate in this international activity, mainly by presenting their papers to an international audience. When possible, we encourage our collaborators to go abroad and enrich their training in reference schools in the field of History of Science and Technology. Currently we have students in joint programs with Paris-Nouvelle Sorbonne (PhD) and Royal Institute of Technology (Sweden), Imperial College (UK) (Post-Doc). As already mentioned, we recently established Erasmus agreements with the Universities of Athens and Eindhoven in order to improve students' mobility. A Erasmus Mundus program in the fields of the History of Technology is being prepared under the leadership of the Technical University of Athens and including as partners the University of Eindhoven, the Royal Institute of Technology, Paris-Sorbonne, and the Faculty of Science and Technology/New University of Lisbon.

Finally the unit members continued to develop their research within the framework of projects funded by the FCT/MCTES. Three projects have been

Objectives & Achievements

present to the last call (2010).

Group Productivity

Publications in peer review Journals

A. Simões, A. CARNEIRO, M. P. DIOGO, 'Riding the wave to reach the masses: natural events in early twentieth-century Portuguese daily press,' Science & Education, (forthcoming, but already published online since 12 September 2010, <http://www.springerlink.com/content/c28g256033501304/>)

C. MARCIANO DA SILVA, "Neolithic Cosmology: The Equinox and the Spring Full Moon", The Journal of Cosmology, Vol. 9 (2010), 2207-2216

C. Oliveira, C. MARCIANO DA SILVA, "Moon, Spring and Large Stones", Proceedings of the World Congress UISPP (Lisbon, 4–9 September, 2006) Session C68 - Monumental Questions: Prehistoric Megaliths, Mounds and Enclosures eds. David Calado, Maxmilian Baldia and Matthew Boulanger 2010, Vol. 7, 83-90, BAR International Series 2122

D. SCARSO, * "Andrea Camilleri: Le cours des choses est sinueux"/"Andrea Camilleri: The course of things is sinuous"/"Andrea Camilleri: Il corso delle cose è sinuoso", Chiasmi International. Trilingual Studies Concerning the Thought of Merleau-Ponty, n. 12, 395-400, 401-406, 407-412.

M. A. P. ALMEIDA, "Partidos e Independentes nos vários níveis de governo: Portugal no contexto Europeu", A. Freire, I. Carvalhais, J. L. Viegas, J. Palmeira (orgs.), "Cidadãos, Parlamentos e Representação Política. Perspectivas Transdisciplinares", Perspectivas – Portuguese Journal of Political Science and International Relations, 5 (2010), 123-145.

M. P. DIOGO, "Leonardo to the Internet: Technology and Culture from the Renaissance to the Present", by Thomas Misa (The John Hopkins Iniversity Press, 2004), Book Review, HoST - Journal of History of Science and Technology , 4 (2010)

M. L. SOUSA

* "Technology as a social collective experience of nation building: David Nye's American Technological Sublime",

Revisiing the Classics, HoST - Journal of History of Science and Technology, 4 (2010)

* "The Motorization in Portugal in the Twentieth Century", Work in progress, HoST - Journal of History of Science and Technology , 4 (2010)

P. FONTES DA COSTA

* "In the Intimacy of Thought: Darwin's Notebooks on the Moral Sense of Man", Antropologia Portuguesa 26 (2010),137-147

* "Albrecht von Haller e o debate sobre a existência de seres humanos hermafroditas" Revista Portuguesa de Filosofia, 65 (2010), 201-210.

T. S. MOTA, "Os Serviços Geológicos de Portugal: uma escola prática para geólogos", e-Terra, 1 (2010), volume 15

Other international publications

ARTICLES

J. Catalá-Gorgues; A. CARNEIRO, 'El Projecte de la Carta Geològica d'Europa i la Participació dels Serveis Geològics d'Espanya i Portugal,' Actes d'Història de la Ciència i de la Tècnica, (2010) 3, 11-22.

J.L.CÂMARA LEME, "Le mythe de l'autorité – Ubu ou l'impuissance politique", in B. Ogilvie, D. Sardinha, F.O. Wolf (eds), Vivre en Europe. Philosophie, politique et science aujourd'hui, Paris, 2010, pp. 277-295

M. L. SOUSA, "Constructing (auto)mobility system in a peripheral European country in the 1930s: visions and realities of the authoritarian Portugal" Tensions of Europe and Inventing Europe Working Paper, 2010-22, (2010) (http://www.tensionsofeurope.eu/publications/working/workingpdf/WP_2010_22_Sousa.pdf).

Other national publications

Group Productivity

BOOKS

I. AMARAL, A. CARNEIRO; T. S. MOTA; V. M. BORGES; J. L. DORIA (Coord.), Percursos da Saúde Pública nos séculos XIX e XX – a propósito de Ricardo Jorge, CELOM; Lisboa, 2010.

M. A. P. ALMEIDA, Memórias Alentejanas do Século XX, Cascais, Príncípa, 2010.

A. Cardoso e P. FONTES DA COSTA (eds.), Corpo, Poesia e Afecto em Albrecht von Haller, Lisboa, Colibri, 2010.

CHAPTERS OF BOOKS

A. M. NUNES DOS SANTOS, "Breves notas para a recordação do meu mestre Rómulo de Carvalho", in F.C. Martins, L. Medeiros, M. Parreira et al. (orgs.), Departamento de Estudos Portugueses, UNL/FCSH, Memórias Gestos Palavras, Textos oferecidos a Teresa Rita Lopes, Assírio & Alvim, 2010, pp. 89-98.

C. AURETTA, "Auto-Entrevista ao docente Christopher Damien Aretta (porque o docente também «voa» outro)", in F.C. Martins, L. Medeiros, M. Parreira et al. (orgs.), Departamento de Estudos Portugueses, UNL/FCSH, Memórias, Gestos, Palavras, Textos oferecidos a Teresa Rita Lopes. Lisboa: Assírio & Alvim, 2011, pp. 159-169.

C.AURETTA, A.M. NUNES DOS SANTOS, "A Significant Break in Tradition: the Election of the First Woman to the Sciences Section of the Lisbon Academy of Sciences", in A. M. Silva, A. H. Reis, A. Fitas, J. Figueiredo, B. Caldeira and M. Bezzeghoud (eds.), Jornadas da Física por ocasião da Jubilação do Professor Rui Namorado Rosa. Universidade de Évora, 2010, pp. 121-130.

I. AMARAL, A. CARNEIRO; T. S. MOTA, "Introdução", I. AMARAL et al. (Coord.), Percursos da Saúde Pública nos séculos XIX e XX – a propósito de Ricardo Jorge, CELOM; Lisboa, 2010, pp. 11-15.

A. C. Matos, M. P. DIOGO, "From the École des Ponts et Chaussées to Portuguese railways: the transfer of Technological Knowledge and Practices", in Magda Pinheiro (ed.), Railway Modernization: an Historical Perspective (19th-20th centuries), Lisbon, CEHCP-ISCTE-IUL, 2010, pp. 77-90.

P. FONTES DA COSTA

* "Albrecht von Haller e a controvérsia sobre a origem dos seres monstruosos" in A. Cardoso e P. Fontes da Costa (eds.), Poesia, Corpo e Afectos em Albrecht von Haller, Lisboa: Edições Colibri, 2010,, pp. 59-69.

* "A celebração da natureza nas Recriações Botânicas da Marquesa de Alorna", in A. L. Pereira e J. R. Pita (eds.), Ciências da Vida, Tecnologias e Imaginários, Coimbra: Centro de Estudos Interdisciplinares do século XX, 2010, pp. 37-44.

* "Livros sobre monstros e prodígios", Catálogo da Exposição Arte Médica e Imagem do Corpo de Hipócrates ao século XVIII (Lisboa: Biblioteca Nacional de Portugal, 2010), pp. 63-78.

V. LEITÃO, "Filipe Folque (1800-1874): breve biografia", pp. 12-15, artigo publicado no catálogo da exposição "Medir os Céus para Dominar a Terra: A Astronomia na Escola Politécnica de Lisboa (1837-1911) – Medir o Tempo, Medir o Mundo, Medir o Mar", Museu de Ciência da Universidade de Lisboa, Outubro 2009 a Abril 2010.

ARTICLES

A. CARNEIRO, T. S. MOTA, 'Breve Resenha Histórica da Geologia em Portugal,' in J.M. Coteló Neiva et al. (eds.), Ciências Geológicas: Ensino, Investigação e sua História, Braga, Associação Portuguesa de Geólogos/Sociedade Geológica de Portugal, 2010, pp. 517-528.

M. C. Lourenço, A. CARNEIRO, eds., Spaces and Collections in the History of Science. The Laboratorio Chimico Overture, Lisbon, Museum of Science of the University of Lisbon, 2010.

OTHERS (Proceedings and Pre-prints)

C.AURETTA, A.M. NUNES DOS SANTOS, "Ficção e Novas Tecnologias, Meditação sobre a Bioarte: Rizoma, Reflexividade e Responsabilidade

Group Productivity

na Obra de Fernando Pessoa, Lee Mingwei e Symbiotica”, in Grupo de História e Sociologia da Ciência do Centro de Estudos Interdisciplinares do Século XX, CEIS20 (org.), Ciências da Vida, Tecnologias e Imaginários, Na era da biodiversidade, Homenagem ao Prof. Doutor Carlos Almaça (1934-2010). Universidade de Coimbra, 2010, pre-print, pp. 45-59.

D. SCARSO, “Dialéctica e ultrabolchevismo: a ruptura entre Merleau-Ponty e Sartre”, in Actas das Jornadas de Jovens Investigadores de Filosofia - Primeiras Jornadas Internacionais, Grupo Krisis, 2010, Vol. 1, pp. 131-150. Disponível em: http://www.krisis.uevora.pt/edicao/actas_vol1.pdf

C. TAVARES, A.CARNEIRO, M.P.DIOGO, A.SIMÕES, “A imagem publica das Ciências e da Tecnologia na Imprensa Portuguesa (1900-1901)”, in Carlos Cordeiro, Susana Serpa Silva (eds.), A História da Imprensa e a Imprensa na História. O contributo dos Açores, Actas do Colóquio Internacional, 28-30 May 2009, Ponta Delgada: Centro Gaspar Frutuoso da Universidade dos Açores e CEIS XX da Universidade de Coimbra, 2009, pp. 519-535. (published in 2010).

Organization of conferences

CONFERENCES

A. CARNEIRO, Member of the Scientific Committee of the International Commission on the History of Geological Sciences (INHIGEO) Annual Conference, History of Research in Mineral Resources, Madrid-Almadén, Spain, 1-14 July, 2010.

A. Simões, A. CARNEIRO, M.P. DIOGO Member of the organization of HoST 5th Annual Workshop. Science and Technology for the People, Lisbon, Institute of Social Sciences, 20-21 September, 2010

D. SCARSO, J. L. CÂMARA LEME, Claude Lévi-Strauss Filósofo, Instituto Franco Português - Lisboa, 17 May 2010.

M.P. DIOGO, A. Simões, A. CARNEIRO, Member of the organization of the II 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.

P. FONTES DA COSTA (co-organizadora), O Livro, o corpo e a arte médica, 1450-1800/ Books, Bodies and Medical Art, 1450-1800, Portuguese National Library, 30 June- 2 July 2010.

SESSIONS IN CONFERENCES

M.P. DIOGO, D. Van Laak, M. Middell, History of Technology in a Global Perspective, 8th ESSH, Ghent, 14-18 April, 2010

Internationalization

Besides membership in more than 10 international societies (functions in scientific and executive committees), refereeing for scholarly journals, editorial boards of international journals, talks in international conferences (30), and organization of sessions in international conferences (6) we highlight :

PROJECTS

M. P. DIOGO

* Manuais de Engenharia na Península Ibérica; Partner: UPC (SP)

* Ingeniería y Cultura científica en Cataluña y España (1720-2000) Partner: UPC (SP)

* Making Europe: Technologies and Transformations, 1850-2000. Co-authoring (with two German colleagues) of volume 1 (Europe in the Global World) of a 6 book series (Palgrave Editors, 2009-2012); Partner: U. Eindhoven (NL) (<http://www.tensionsofeurope.eu/Dissemination.asp?wh=Making Europe book series>)

A. CARNEIRO, The Sites of Chemistry/Chantiers de la Chimie, funded by the Society for the History of Alchemy and Chemistry, Maison Française/Oxford University/Wellcome Trust, 2010/14. <http://www.sitesofchemistry.org/>

CONSULTANCY

M. P. DIOGO

Group Productivity

* Member of the Melvin Kranzberg Prize Committee (SHOT)

* Referee of the ESF (Committee for Humanities), as expert in STS (Science, Technology and Society)

* P. F.COSTA, Referee of the NSF (USA)

TRAINING NETWORKS

* University Nouvelle Sorbonne/Paris 3

* Royal Institute of Technology (SW)

* Imperial College (UK)

* Erasmus agreement with the University of Eindhoven (NL) and the University of Athens (GR)

NETWORKS

* Science and Technology in the European Periphery

* Technology in the Making of 20th century Europe

* Interational Network of Engineering Studies

* Circulating Knowledge in Early Modern Science

OTHERS

* M. P. DIOGO, Associate Editor of Journal of Engineering Studies

* A. CARNEIRO, M. P. DIOGO, Editorial Board of HoST

* A. CARNEIRO Book Review Editor of HoST

FCT Relatório Científico 2010 Centro de Investigação em História e Filosofia da Ciência e da Tecnologia

| Group Description | |
|---|---|
| Title of Research Group: | (RG-LVT-286-1600) Ciência e Tecnologia (ii): estudos históricos e cultura material |
| Principal Investigator: | Ana Isabel da Silva Araújo Simões |
| Main Scientific Domain: | História |
| Group Host Institution: | Faculdade de Ciências - Universidade de Lisboa |
| Funding, source, dates | |
| Funding, source, dates | |
| Funding for 2010: | |
| 1. I&D Unit: 22 300 € | |
| 2. FCT projects: | |
| “Reading newspapers... (1900-1926)”. PTDC/HCT/68210/2006. PI: Ana Simões (2008-2011). 6767 euros | |
| “História dos Jogos em Portugal,” PTDC/HCT/70823/2006. PI: Jorge Nuno Silva, (Jan 2009-Jan 2012). 23 333 euros | |
| "Paving the way for integrated archival and collection-based research in the history of science... ". PTDC/HCT/64181/2006. PI: Marta Lourenço (2008-2011). 2302 euros | |
| “Thesaurus of scientific instruments in Portuguese (financed by FCT/CNPq). HC/0099/2009. PI Portuguese Part: Marta Lourenço (2006-2011). 4500 euros | |
| “On the instruments’ trail...”. PTDC/HIS_HCT/098970/2008. PI: Marta Lourenço (2010-2013). 44594 euros | |
| “Science, technical training ... the case of Escola Politécnica de Lisboa (1837-1911)” PTDC/HIS-HCT/108362/2008. PI: L.M. Carolino (2010-2013). 47594 euros | |
| 3. Other sources of funding | |
| “Valorização dos Acervos do Museu de Ciência da Universidade de LisboaProcesso 102319”. FCG. PI: L.M. Carolino. 15000 euros. | |
| Contract Compromisso Ciência nº17/Ciência2007/2007 (C2007-UL-58-MP. (L.M. Carolino) | |
| Objectives & Achievements | |
| Objectives | |
| This research group shares a common agenda with Ciência e Tecnologia (i) made visible by the scientific organization of this Unit. Participation in collective projects aims at building a common identity for the Unit and includes the maintenance of a common web-site; database of Portuguese scientists and engineers; HoST workshops and conferences; organization of II Encontro Nacional de História das Ciências e Tecnologia; pre-print series; and finally accessibility of primary sources. | |
| The implementation of projects including members of the 2 research groups is deemed crucial. Such is the case of four projects (popularization of science, institutional histories, collection based history of science and history of astronomy) associated partly with two Post-Docs under Compromisso | |

Objectives & Achievements

com a Ciência 2007 and two FCT projects (popularization, collection-based history of science) which will give way to publications involving members of the 2 research groups.

Specific to this research group, and bearing continuity with former research activities, the following research topics will be under scrutiny:

- History of physical sciences, 15th-20th centuries: completion of the Complete Works of Pedro Nunes; role of mathematical instruments and question of mathematical certainty in the emergence of modern science; topics in nautical sciences, circulation of scientific books (15th-18th centuries); institutional histories of Polytechnic School, Faculty of Sciences of University Lisbon and Astronomical Observatory of Lisbon; emergence and development of scientific disciplines (physics, chemistry, astronomy, meteorology etc); popularization of science and technology; historiographical considerations on science in the European Periphery; history of quantum chemistry.
- Material culture and collection based history of science – case studies involving collections held at Museum of Science and the disassembled collection of the Cabinet of Physics of Ajuda. Special emphasis has been given to the organization of working tools, namely the production of an inventory of national scientific heritage, and the participation in the production of a Thesaurus of Scientific Instruments in Portuguese;
- History of mathematical games – Study of differential evolution of games migrating from Africa to the Madeira island and the Portuguese mainland.
- History of technology - plastics and PVC.

Obviously, former topics will integrate research by graduate students.

Participation in several activities associated with the commemorations of the 100th anniversary of the University of Lisbon and the Faculty of Sciences were considered a priority, involving members of this research group in their executive committees and producing several outputs: chapters of books, books and special journal's issue and an exhibit, involving members of the two research lines.

At the international level, strengthening collaboration with foreign scholars within international groups in Brazil and in Europe (for instance STEP, MPIWG) has been deemed crucial and it materialized in participation in graduate programs, summer schools and joint research projects.

All former activities should be viewed in the context of an emphasis on the importance of internationalization, aiming at making known Portuguese case studies to the international community of historians of science and technology. Our strategy to rewrite the role of Portugal in the international context is to be anchored in: (i) publications in international volumes, edited volumes and peer-reviewed journals; (ii) presentation of papers in international conferences; (iii) organization of sessions and conferences on topics related to the Portuguese case; (iv): editorial activity, including the edition of Complete Works of Pedro Nunes; Collection History and Philosophy of Science; Collection Science and Enlightenment and Collection CIUHCT; (v) active participation in international research projects and networks. (For internationalization of CIUHCT- University of Lisbon Group see Internationalization). We also engaged in conceptual and methodological international debates, namely concerning issues such as the relationship between centre(s) and periphery(ies), and the meaning of being a scientist in the periphery of Europe.

Main Achievements

Besides the main achievements of the unit as a whole already described, in what relates to this research line the number of international (peer review journals and others) and national publications (23 + 15+ 14 + several in press), together with papers presented at international (44), and national conferences (56), including invited talks, and the organization of sessions and/or conferences both nationally and abroad (16, of which 6 were international) testify to the productivity of the group and its growing internationalization.

If publications are good pointers to the productivity of our research group, some of our main 2010 activities were not made visible through our publication output. Therefore, we consider crucial to emphasize the following projects:

Publications – in preparation

*Preparation of volume V of Complete Works of Pedro Nunes.

* Finished the translation of Optics and Catoptrics of Euclid. Preparation for publication.

* End of translation of the Sphera of Theodosius. Preparation for publication.

* Beginning translation of Epitome of the Almagest by Peurbach and Regiomontanus.

*Building on the output of the FCT project on Scientific Manuscripts held at the National Library of Portugal (classified as excellent), preparation of

Objectives & Achievements

a Catalogue of the BNP Scientific Manuscripts continues. In the meantime all manuscript entries have been fed into the database PORBASE

*Revision of translation of the Scientific Biography of Correia da Serra into English to be published by a USA publisher in 2011.

* Final revision of the book *Neither Physics nor Chemistry. A history of quantum chemistry*, written jointly with Kostas Gavroglu, which is coming out in the series *Transformations of Science*, MIT Press, in 2011.

* Research and writing of a 100-page chapter on the History of the Faculty of Sciences to be published in 2011 in one of the commemorative volumes celebrating the 100th anniversary of the University of Lisbon.

*Supervision of research and coordination of a volume on the Scientific and Artistic Heritage of the University of Lisbon to be published in 2011 in one of the commemorative volumes celebrating the 100th anniversary of the University of Lisbon.

Archives accessibility and scientific heritage:

*Organization, preservation and cataloguing of one of the most important Portuguese historical archives for science located at the Museum of Science of the University of Lisbon. This archive holds printed and manuscript sources from the Polytechnic School of Lisbon (1837-1911) and the Faculty of Sciences of the University of Lisbon (1911-1980s). It also includes the organization and cataloguing of the Historical Archive of the Observatory of the Polytechnic School. To be completed in 2011.

* Preparation of an on-line Catalogue of the documents held at MCUL. To be available in 2011

*First steps into the organization of an oral history archive associated with the Faculty of Sciences of Lisbon.

*Collaboration of members of CIUHCT, mediated by MCUL, in the organization, preservation and accessibility of the scientific heritage and collections of the following institutions: Academia das Ciências de Lisboa; Escola Secundária de Passos Manuel; Escola Secundária de Camões; Instituto Superior Técnico; Hospitais Cívicos de Lisboa Central; Palácio Nacional da Ajuda; Palácio Nacional de Sintra.

* Construction of a database including transcription of news on science and technology appearing in three Portuguese newspapers (1900-1926)

Training

Besides on-going MSc and PhD theses, 1 MSc student, member of our research group defended successfully his dissertation supervised by a member of our group. Members of the group supervised 3 more MSc students who successfully defended their dissertations. Furthermore, 3 PhD theses were completed and successfully defended in 2010 by members of the research group. The group has also increased its number of Post-Docs.

Finally four research projects were submitted to the FCT 2010 Call of Projects.

Group Productivity

Publications in peer review Journals

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*, published on-line since 12 September 2010, DOI 10.1007/s 11191-010-9299-J.

Walter Alvarez, HENRIQUE LEITÃO, "The neglected early history of geology: the Copernican Revolution as a major advance in understanding the Earth", *Geology*, 38 (2010) 231-234.

Henrique Leitão, "Pedro Nunes e o Livro de álgebra", *Quaderns d'Història de l'Enginyeria*, 11 (2010) 3-12.

JORGE NUNO SILVA, "Mathematical games in Europe around the year 1000", *Gerbertus*, 1 (2010), 205-217.

LUÍS MIGUEL CAROLINO, "Measuring the heavens to rule the territory: Filipe Folque, the teaching of astronomy at the Lisbon Polytechnic School and the modernization of the State apparatus in nineteenth century Portugal", *Science and Education*, (online since 15 November 2010 <http://www.springerlink.com/content/t8476473qk488621/>)

MARIA ELVIRA CALLAPEZ, "Plásticos na Sociedade Portuguesa Rural", *Revista Brasileira de História da Ciência*, 3 (2) (2010), 200-210.

Group Productivity

SAMUEL GESSNER, “Savoir manier les instruments: la géométrie dans les écrits italiens d'architecture (1545-1570)”, *Revue d'Histoire des Mathématiques*, 16 (1) (2010), 87-147.

SAMUEL GESSNER, “The Vopelius – Schissler connection: transmission of knowledge for the design of celestial globes in the 16th century”, *SIS Bulletin, Journal of the Scientific Instrument Society*, 104 (2010), 32-42.

SAMUEL GESSNER, “Bons procédés entre érudits: Un mésolabe pour l'édition de l'Architecture de Vitruve (1567)”, *Revue de Synthèse, 'Histoire sociale des mathématiques'*, 131 (4) (2010), 523-541.

ANA SIMÕES, “Copérnico ou Galileu: um problema mal colocado” *Gazeta de Física*, 33(1) (2010), 12-15.

ANTÓNIO COSTA CANAS, “Há 100 anos Portugal assinou o contrato de aquisição do primeiro submersível”, *Revista da Armada* (2010), 14-17.

ANTÓNIO COSTA CANAS, «Gago Coutinho — Criador da navegação aérea astronómica», *Anais do Clube Militar Naval*, CXXXIX (2009), 149-170 (published 2010)

HENRIQUE LEITÃO, “A nova edição das Obras de Pedro Nunes”, *Memórias da Academia das Ciências de Lisboa. Classe de Ciências*, 42 (2002-2005) 133-145 [published 2010].

HENRIQUE LEITÃO, “Longemira: Os primeiros telescópios em Portugal”, *Gazeta de Física*, 33 (2010), 17-21.

JORGE NUNO SILVA, “Velhos problemas maravilhosos”, *Gazeta de Matemática* 160 (2010), 5-6.

JORGE NUNO SILVA, “Notas sobre o problema anterior e Nim transfinito”, *Boletim da SPM* 62 (2010), 93-97.

JORGE NUNO SILVA, “Torres de Hanói Magnetizadas”, *Gazeta de Matemática* 161 (2010), 5-6.

JORGE NUNO SILVA, “Algo de Novo no Debate Sobre o Ensino da Matemática?”, *Gazeta de Matemática* 161, July de 2010, pp.~22--3.

JORGE NUNO SILVA, “Notas sobre o problema anterior e Tabuleiro Infinito”, *Boletim da SPM* 63 (2010), 67-70.

JORGE NUNO SILVA, “Razão e bom gosto: Martin Gardner”, *Gazeta de Matemática* 162 (2010), 6-7.

JOSÉ MANUEL MALHÃO PEREIRA, “História breve da recta de altura”, *Anais do clube militar naval*, cxxxix (2010), 583-605.

M. Granato, MARTA C. LOURENÇO, “Reflexões sobre o património cultural da ciência e tecnologia na atualidade” *Memória em Rede [Pelotas]*, 2 (4) (2010), 85-104.

SAMUEL GESSNER, “Para a história das séries infinitas – a tradução de um estudo sobre um aspecto matemático da obra de Álvaro Tomás de Lisboa”, *Boletim da SPM*, 62 (2010), 61-66.

SAMUEL GESSNER, “H. Wieleitner, ‘Para a história das séries infinitas na Idade Média cristã’”, *Boletim da SPM*, 62 (2010), 67-87.

Other international publications

BOOKS AND CHAPTERS OF BOOKS

ANTONIO COSTA CANAS, «A introdução da projecção de Mercator na cartografia náutica portuguesa», Francisco Roque de Oliveira e Héctor Mendoza Vargas [coord.], *Mapas de metade do mundo. A cartografia e a construção territorial dos espaços americanos: séculos XVI a XIX. Mapas de la mitad del mundo. La cartografía y la construcción territorial de los espacios americanos: siglos XVI al XIX*, Lisboa e Cidade do México, Centro de Estudos Geográficos da Universidade de Lisboa e Instituto de Geografia da Universidad Nacional Autónoma de México, 2009 (published 2010), pp. 359-386.

CONCEIÇÃO TAVARES, Albert I de Monaco, Afonso Chaves et la Météorologie aux Açores, Ponta Delgada: Presidence du Gouvernement Régional des Açores, 2010.

HENRIQUE LEITÃO (ed.), *Obras de Pedro Nunes, Vol. VI: Libro de algebra en arithmetica y geometria* (Lisboa: Academia das Ciências de Lisboa,

Group Productivity

Fundação Calouste Gulbenkian, 2010).

HENRIQUE LEITÃO ed., Galileu Galilei. Sidereus Nuncius: O Mensageiro das Estrelas (Lisboa: Fundação Calouste Gulbenkian, 2010). Translation, introduction and notes.

HENRIQUE LEITÃO Chamo-me... Pedro Nunes (Lisboa: Didáctica Editora, 2010).

João Pedro Neto, JORGE NUNO SILVA, Jogos Velhos, Regras Novas, Clássica Editora, 2010.

JORGE NUNO SILVA, "Teaching and playing 1000 years ago, Rithmomachia", in Costantino Sigismondi (Ed.), Orbe novvs, Universitalia 2010, pp.137-150.

LUANA GIURGEVICH, ed., Dall'epistolario di Alberto Fortis. Destinazione Dalmazia, Pirano: Società di studi storici e geografici Pirano, 2010.

M. Granato, MARTA C. LOURENÇO (eds.), 2010. Coleções científicas de instituições luso-brasileiras: Patimônio a ser descoberto. MAST/MCT, Rio de Janeiro.

A. Cardoso Matos, I. Gouzevitch, MARTA LOURENÇO (eds), Expositions Universelles, Musées Techniques et Société Industrielle/World Exhibitions, Technical Museums and Industrial Society, Lisboa, Colibri, 2010.

BOOK REVIEWS

ANA SIMÕES, Book Review of Patrick Coffey, Cathedrals of Science. The personalities and rivalries that made modern science. *Metascience* 19 (3) (2010), 485-8.

LUÍS MIGUEL CAROLINO, Book Review of Edward Grant, A History of Natural Philosophy. From the Ancient World to the Nineteenth Century", *Host – Journal of History of Science and Technology*, 3 (2009) [2010], <http://johost.eu/?oid=93&act=&area=9&ri=1&itid=>

MARTA MACEDO, Book Review of Karl-Eugen Kurrer, The History of the Theory of Structures: From Arch Analysis to Computational Mechanics (Berlin: Ernst & Sohn, 2008) in *Host: journal of history of science and technology*, 3 (2010).

SAMUEL GESSNER, Book review of Michael KOREY, Die Geometrie der Macht, die Macht der Geometrie. Mathematische Instrumente und fürstliche Mechanik um 1600 aus dem Mathematisch-Physikalischen Salon, Berlin, Deutscher Kunstverlag, 2007", *Revue de Synthèse* 131 (4), 6e SÉRIE (2010), 620-621

PROCEEDINGS

LUANA GIURGEVICH, "Dall'alterità all'identità paesaggistica: alcune immagini tomizziane", in Bianca Maria Da Rif, Delia Garofano, eds., *Civiltà italiana e geografie d'Europa*, Proceedings of the XIX International AISLLI Conference, Trieste, Capodistria, Padova, Pola, 20-24 September 2006 (Trieste: Edizioni Università di Trieste, 2010), Cd-rom.

SAMUEL GESSNER, "Salvare la lettera: mode d'articulation entre mathématiques et questions d'architecture", in *Mathématiques et connaissance du monde réel avant Galilée*, Sabine Rommevaux ed., Montreuil, Omniscience, 2010, p. 287-322. Proceedings of meeting "Formes d'interaction entre mathématiques et philosophie naturelle (XIVe-XVIe siècles)", 24-25 November 2006.

Other national publications

BOOKS AND CHAPTERS OF BOOKS

CONCEIÇÃO TAVARES, João Paulo Constância (eds.), *Ilhas & História Natural*, Catálogo da Exposição, , Ponta Delgada: Direcção Regional da Cultura, 2010

CONCEIÇÃO TAVARES, "História Natural. Páginas soltas de uma nova descoberta dos Açores", in Conceição Tavares, João Paulo Constância (eds.), *Ilhas & História Natural*, Catálogo da Exposição, , Ponta Delgada: Direcção Regional da Cultura, 2010, pp. 11-21.

JOSÉ MANUEL MALHÃO PEREIRA, "Prefácio" in Peter Wibaux *O Caminho da Índia*, de Peter Wibaux, Lisboa, Fronteira do Caos, 2010, pp. 3-5.

LUÍS MIGUEL CAROLINO, Teresa Salomé Mota (eds.), *Medir os Céus para dominar a Terra. A Astronomia na Escola Politécnica de Lisboa, 1837-*

Group Productivity

1911. Medir o Tempo, Medir o Mundo, Medir o Mar, Lisboa, Museu de Ciência da Universidade de Lisboa, [2010].

LUÍS MIGUEL CAROLINO, Teresa Salomé Mota, "O ensino de Astronomia na Escola Politécnica de Lisboa, 1837-1911", in: L.M. Carolino e T.S. Mota (coord.), Medir os Céus para dominar a Terra. A Astronomia na Escola Politécnica de Lisboa, 1837-1911. Medir o Tempo, Medir o Mundo, Medir o Mar, Lisboa, Museu de Ciência da Universidade de Lisboa, [2010], pp. 6-9.

MARIA ELVIRA CALLAPEZ, História do PVC em Portugal – CIRES. Um Caso de Sucesso, Lisboa, Escolar Editora, 2010.

A.M. Eiró, MARTA C. LOURENÇO (eds.) 2010. Fernando Bragança Gil. Colectânea de Textos sobre Museus e Museologia. Museu de Ciência da Universidade de Lisboa.

JOURNALS

HENRIQUE LEITÃO, "O Ano Internacional da Astronomia (2009) e o conhecimento de Galileu em Portugal", Lumen Veritatis. Boletim da Sociedade Científica da Universidade Católica Portuguesa, XVI (1) (2010) 2-4.

JORGE NUNO SILVA, "Martin Gardner", *Jornal de Matemática Elementar* 286 (2010), 1-6.

MARIA ELVIRA CALLAPEZ, "Os Caminhos da CIRES – O seu 50º Aniversário", Terras de Antua – Histórias e Memórias do Concelho de Estarreja, Câmara Municipal de Estarreja, 4 (2010), 137-155.

MARTA C. LOURENÇO, "O património invisível: História, organização e preservação do património científico em Portugal," *Museologia.pt* 4 (2010) 106-121.

PROCEEDINGS

ANTÓNIO COSTA CANAS, "Gago Coutinho – geógrafo", II Jornadas de Memória Militar. Os militares, a ciência e as artes, Lisboa, Academia Internacional da Cultura Portuguesa, 2009 (published 2010), pp. 73-89.

CONCEIÇÃO TAVARES, ANA CARNEIRO, MARIA PAULA DIOGO, ANA SIMÕES, "A imagem publica das Ciências e da Tecnologia na Imprensa Portuguesa (1900-1901)", in Carlos Cordeiro, Susana Serpa Silva (eds.), *A História da Imprensa e a Imprensa na História. O contributo dos Açores, Actas do Colóquio Internacional, 28-30 May 2009, Ponta Delgada: Centro Gaspar Frutuoso da Universidade dos Açores e CEIS XX da Universidade de Coimbra, 2009, pp. 519-535. (published in 2010).*

SAMUEL GESSNER, "O problema délico no Colégio de Santo Antão: um problema clássico de geometria e a notação algébrica da prova", Revisitar os saberes: referências clássicas na cultura Portuguesa do Renascimento à idade moderna, Proceedings of Meeting organized at Universidade de Lisboa, CEC/IELT/CIUHCT, 5-6 June 2009, Lisboa, CEC, 2010, pp. 233-251.

Ph.D. thesis completed

Joaquim Alves Gaspar, From the portolan chart of the Mediterranean to the latitude chart of the Atlantic: cartometric analysis and modeling, ISEGI - Universidade Nova de Lisboa, 21 September 2010

Pedro Raposo, Polity, Precision and the Stellar Heavens: the Royal Astronomical Observatory of Lisbon (1857-1910), University of Oxford, 23 November 2010

Marta Macedo, Projectar e construir a nação: engenheiros e território em Portugal (1837-1893), University of Coimbra, April 2010

Organization of conferences

ANA SIMÕES and members of CIUHCT, Scientific and Organizing committee of the II Encontro Nacional de História das Ciências e da Tecnologia (ENHCT), 26-27 July 2010.

ANA SIMÕES,

*Organizer of Session on Scientific Travels since the 16th century, 4th European Society for the History of Science (ESHS) Meeting, Barcelona, Spain, 18-20 November 2010.

*Organizer of the session on Representations of Science and Technology in the Press, 4th European Society for the History of Science (ESHS)

Group Productivity

Meeting, Barcelona, Spain, 18-20 November.

*Organizing Committee, 5th HoST Workshop Science and Technology for the People, Lisbon, 20-21 September 2010.

*Organization of Workshop “Science and Technology in the Press”, 7 January 2010.

ANTÓNIO COSTA CANAS

*Executive Committee, Jornadas do Mar 2010 — A Nova Era dos Descobrimentos, Escola Naval, 8-12 November 2010.

*Organizing Committee, XV Reunião Internacional de História de Náutica, El Ferrol, Spain, 4-6 November 2010.

HENRIQUE LEITÃO

*Member of Organization of Meeting Histórias de Livros entre o Ocidente e o Oriente, Fundação Oriente, Lisboa, April 2010.

*Member of International Programme Committee, 4th International Conference of the European Society for the History of Science, Barcelona, November 2010.

*Member of Scientific Commission Jornadas do Mar 2010. A Nova Era dos Descobrimentos, Escola Naval, Alfeite, November 2010.

*Member of Scientific and Organizing Committee of Internacional Meeting Os alicerces da Missão da China no tempo de Matteo Ricci: ciência, diplomacia e redes locais, Faculdade de Ciências Sociais e Humanas, Universidade Nova de Lisboa, Lisboa, December 2010.

JORGE NUNO SILVA

*Member of Organizing Committee, 6º Campeonato Nacional de Jogos Matemáticos, Santarém, March 2010.

*Member of Organizing Committee, 23 Seminário Nacional de História da Matemática, University of Évora, June 2010.

*Member of Scientific Committee, V ENCONTRO AFI - XI ENCONTRO DE PROFESSORES-Encontro de Professores sobre a Aprendizagem Formal e Informal, Chaves, June 2010.

MARTA C. LOURENÇO, SAMUEL GESSNER

*Organization of Workshop “Oficina de Cultura Material: Leitura de Instrumentos Científicos”, Museu de Astronomia, Rio de Janeiro, 19 July 2010.

MARTA C. LOURENÇO

*Organising and Review Committee of UNIVERSEUM 2010, University of Uppsala, 17-20 June 2010.

Internationalization

Besides membership in international societies in which members hold specific functions, participation in international networks and groups, refereeing for scholarly journals, membership of editorial boards of journals, talks in international conferences (44), and organization of sessions in international conferences (6), supervision of foreign graduate students and participation in foreign graduate programs and summer-schools, we highlight:

RESEARCH PROJECTS

HENRIQUE LEITÃO

*National representative of International Project “Circulating Knowledge in Early Modern Science”, Flemish Research Foundation (FWO-Vlaanderen). (2006-)*Correspondant of the International Project “La Mathématisation comme Problème. Quantification, Formalisation, Mathématisation”, Université P. Mendès France, Grenoble, France (2006-)

Group Productivity

PUBLICATIONS AND TALKS

A joint book by ANA SIMÕES AND KOSTAS GAVROGLU on the history of quantum chemistry was completed and is to be published by MIT Press (2011). It builds on their joint work of nearly two decades.

Besides 9 international publications, 1 publication with foreign colleagues should be highlighted:

Walter Alvarez, HENRIQUE LEITÃO, “The neglected early history of geology: the Copernican Revolution as a major advance in understanding the Earth”, *Geology*, 38 (2010) 231-234.

Besides 44 talks in international meetings, 1 talk delivered jointly with foreign scholars should be highlighted:

ANA CARNEIRO, MARIA PAULA DIOGO, ANA SIMÕES, ISABEL ZILHÃO, Eirini Mergoupi-Savaidou, Faidra Papanelopoulou, Spyros Tzokas, “Comparing the public perceptions of science and technology in the Greek and the Portuguese daily press, 1908-1910,” 4th International ESHS Conference Barcelona, 18-20 November 2010.

RESEARCH NETWORKS

Several members of the Unit belong to International STEP Group (<http://www.cc.uoa.gr/step/>).

CONSULTANCY AND SPECIAL BOARDS

MARTA C. LOURENÇO,

*Permanent Advisor to the Centre for the History of Science, Royal Swedish Academy of Sciences, Stockholm, 2008-.

*Member of the Board of UNIVERSEUM, the European Academic Heritage Network, 2007-2010; Vice-President since 2010.

ANA SIMÕES

*Member of board of MPIWG Research library for the history and development of knowledge (Open Access Activity) (2010-