The Centro de Filosofia das Ciências da Universidade de Lisboa (CFCUL) is a Research Unit founded in 2003. It is organically constituted by the Director, the Executive Committee, the Scientific Board, the Permanent Scientific Counseling External Commission, and the Honorary Founding Members. The CFCUL’s director is Prof. Olga Pombo.

The Scientific Board (SB) is constituted by the 38 PhD integrated members. The SB meets several times per year in a regular basis and decides when to gather the whole team (88 integrated members, of which 9 are FCT Post-doc students, 26 PhD students and 6 Master students; 45 collaborators, of which 24 international). The SB meets annually with members of the Permanent Scientific Counseling External Commission. The Executive Committee (EB) is constituted by the following integrated members: Prof. Olga Pombo, Prof. Rui Moreira, Prof. Maria Estela Jardim, Prof. José Manuel Pombeiro, Dr. Zaza C. de Moura, and Prof. Isabel Serra. The EB executes the decisions taken by the SB in order to guarantee: 1) all the management and budgetary issues regarding each activity’s implementation; 2) the evaluation of all the achieved (or not) goals, always trying to analyses what worked out well or what did not go as initially expected. The Permanent Scientific Counseling External Commission (PSCEC) is constituted by internationally renowned researchers in the field of the Philosophy of Science, namely: Prof. Daniel Andler (Université Paris-Sorbonne, Paris IV, France) and Prof. Maria José Frapolli (Universidad de Granada, Spain). The Honorary Founding Members (HFIM) is constituted by Prof. Andréade e Silva (Faculty of Science, University of Lisbon, Portugal) and Prof. Franco Selleri (Università di Bari, Italy).

CFCUL has currently 6 Research Groups (RG):
- Unity of Science
- Philosophy of Nature Sciences
- Philosophy of Life Sciences
- Philosophy of Mathematics
- Philosophy of Human Sciences, Ethics and Politics
- Science and Art

RGs are responsible for the development of the CFCUL’s research projects: 7 projects granted by FCT, 4 international projects (one of which funded by “AçoesIntegradasIuso-Espanholas – CRUP”), 1 partnership project, and 13 internal projects.

CFCUL is funded mainly by the FCT – Programa de Financiamento Plurianual de Unidades de Investigação e Desenvolvimento and FACC. However, CFCUL was also funded during 2011 by other institutions such as CRUP, FIAD, British Council and Gulbenkian Foundation.

General Objectives

The CFCUL is the only R&D Unit exclusively committed to the Philosophy of Science. Supported by an idea of Unity of Science that comes from the tradition of Leibniz and Neurath, CFCUL has a plural but coherent conception of Philosophy of Science. Within that commitment, CFCUL’s main objectives are:
- to encourage and promote the development of Philosophy of Sciences research in Portugal, more specifically, within the research lines: «Unity of Science», «Philosophy of Nature Sciences», «Philosophy of Life Sciences», «Philosophy of Mathematics», «Philosophy of Human Sciences, Ethics and Politics» and «Science and Art», by stimulating and supporting both specialized and interdisciplinary research;
- to develop national and international research projects;
- to establish national and international partnerships;
- to organize colloquia, workshops and conferences;
- to promote a Philosophy of Sciences Permanent Seminar for seniors researchers and a Gymnasium for post-graduate students;
- to assure the supervision of graduate and post-graduate students on Philosophy of Sciences;
- to integrate research and post-graduate studies through Master and Doctoral programs;
- to publish the most relevant studies carried out in the several activities organized by CFCUL’s research groups;
- to edit Kaíros – Journal of Philosophy and Sciences;
- to edit the series of books on Philosophy of Sciences («Philosophy of Science Notebooks»);
- to edit the series «Thesis» with the most relevant Master and PhD dissertations in philosophy of science;
- to edit the series «Documenta» with the proceedings of the conferences and colloquia organized by the CFCUL;
- to reach the wider national and international scientific community and the specific publics we thought might be interested or benefit from our research in Lisbon as well as in the rest of the country and abroad through CFCUL’s webpage and through the organization of several public events.
Main Achievements during the year of 2011

During 2011, the CFCUL largely overlapped its goals and tasks, namely those concerned by the FCT Projects “Image in Science and Art” and “Poincaré Philosopher of Science”. In general terms, the CFCUL was able to develop the foreseen research, to bring together researchers from several fields at a national and international level, to organize high scientific level events, to present the research results in books, articles and communications and to provide access to a relevant number of post-graduate students. Here, some of our main achievements:

1. 22 books
   We highlight:

2. 61 articles (29 peer-reviewed)
   We highlight:
   - José Croca com Magalhães, Guildo, “The principle of eurhythmry a key to the unity of physics” in Foudations of Physics, Kluwer (In print).

3. 38 book chapters
   We highlight:

4. 2 issues of Kairos. Journal of Philosophy and Science

5. Organization of 18 scientific meetings (6 colloquia, 2 workshops, 10 seminars)
   We highlight:
   - International Colloquium Image in Science and Art, Gulbenkian Foundation, Lisbon, 17-19 February
   - International Colloquium, VI Jornadas Ibéricas – Lógica, Lenguaje, Mente y Ciencia, organizadas no âmbito da Acção Integrada Luso-Espanhola. Universidade Complutense de Madrid, 17-18 Nov

5. 144 talks (82 international, 62 national)

6. Organization of 18 conferences

7. Organization of 13 courses

8. Post-graduate education, namely:
   - 9 Post-docs
   - 27 PhD students
   - 103 Master students

Activities

Integrative/multiDisciplinary activities during the year of 2011

Given the nature of CFCUL’s research field, a great number of its activities are inherently integrative and multidisciplinary. Besides the fact that Philosophy of Science is in itself an interdisciplinary area, CFCUL’s team is composed by members coming from a significant variety of disciplines (Philosophy, Physics, Biology, Medicine, Mathematics, Sociology, Logics) and institutions (Faculties of Sciences, Medicine, Letters, and Fine Arts).

1) Some of our projects are strongly interdisciplinary. For instance, the following FCT projects:
   - Poincaré, Philosopher of Science, with researchers from Physics, Mathematics, Philosophy, Logics, History of Science and Mathematical Learning
   - Image in Science and Art, with researchers from many fields: Philosophy, Epistemology, History, Sociology, Art, Semiotics, Medicine
   - What is Physical Theory?, with researchers from Philosophy, Physics, Mathematics, and History
2) The international colloquia organized by the FCUL in partnership with other institutions also have a strong interdisciplinary aspect:
- Poincaré. Problems and Perspectives. CFCUL and FCT Project Poincaré, philosopher of science. FCUL, Lisbon, 26-27 Jan (15 talks)
- Image in Science and Art. CFCUL and FCT Project Image in Science and Art. Gulbenkian, Lisbon, 17-19 Feb (21 talks, 1 debate and 1 roundtable)
- Espaço, Tempo, Devir: I Encontro de Filosofia e Física. CFCUL, CFUL and University of Azores. Ponta Delgada, 1-2 Sep (12 talks)
- The 75th anniversary of Delfim Santos. An evaluative assessment of Neopositivism. CFCUL and Arquivo Delfim Santos. FCUL, Lisbon, 4-5 Nov (19 talks)
- VI Jornadas Ibéricas – Lógica, Lenguaje, Mente y Ciencia. CFCUL and Universidad Complutense de Madrid. Madrid, 17-18 Nov (26 talks)
- À quoi l'Europe sert-elle encore? Un débat entre l'Allemagne, la France et le Portugal. CFCUL, Collège International de Philosophie, Freie Universität Berlin, Fondation Calouste Gulbenkian. 2-3 Dec (8 debates with 32 participants)

3) CFCUL is also committed to the objective of inviting speakers from different research areas to its colloquia, conference cycles and seminars, for instance:
- A teoria lógico-dinâmica da representação do discurso, por Francisco Salguero, 25 May
- Right & Left in images - Laterality and Art, por Andrea Pinotti (Univ. de Milão), 15 Jun
- Kant and real numbers, por Mark Van Atten, 28 Jun
- Difficulties of intuition by the hand of Poincaré, por Olga Pombo, 7 Oct
- O Corpo Máquina, por Porfirio Silva (IBIUSP-IST-UTL), 29 Oct
- Lei Natural, Ordem e Epistemologia, por Gildo Magalhães (USP, Brasil), 25 Oct
- A noção de imagem em diferença e repetição, por Nuno Carvalho, 22 Nov
- Imagens cerebrais en las humanidades, por Francisco Gomez Mont Avalos (Neurohumanities Research Centre, Mexico), 16 Dec
- Jean Cavailles and the History of Mathematics, por David Webb, 12 Dec
- Filosofia do Corpo, por Nuno Nabais, 19 Dec

4) Several specialized seminars in different domains (The Void and the Atom, Intuition, Territory, Whitehead, Philosophy & Biology, Philosophy & Law) organized by CFCUL integrated members started in 2011.

5) CFCUL’s members teach in several institutions such as:
- PhD in History & Philosophy of Science (FCUL) and Fine Arts (FBAUL)
- International Master and PhD Programs in Complexity Sciences, ISCTE/FCUL
- Master in History and Philosophy of Science (FCUL), Bioethics (FMIU), Palliative Care (FMU), and Artistic Education (FBAUL)

Outreach activities during the year of 2011

We consider as CFCUL’s most important outreach activities:
1. The maintenance and improvement of the CFCUL’s official webpage through which we divulge our activities;
2. The maintenance and the improvement of the Center for Image in Science and Art webpage;
3. The organization of the exhibition “corpoIMAGEM”, organized by the CFCUL, Pavillon of Knowledge – Ciência Viva, and the FCT Project Image in Science and Art (This exhibition was seen by more than 15,000 visitors);
4. The organization of a series of conferences in the context of the above mentioned exhibition:
   - O desenho de nu na antiga Academia de Belas-Artes de Lisboa, por Alberto Faría (FBAUL), 5Mar
   - Fabulosas raças de humanóides: monstros e robôs, por Porfirio Silva (IST-UTL), 12Mar
   - Uma nova imagem do cérebro, por Mário Forjaz Secca (FCUL-UNL), 19Mar
5. The co-organization with the Fundação Calouste Gulbenkian of a series of open conferences on the Image in Science and Art, that reached a wide audience:
   - Visiting Time: the Renegotiation of Time through Time-based Art, by Boris Groys (New York University, USA), 19Jan
   - Functional Images of the Brain: Beauty, Bounty, and Beyond, by Judy Illes (University of British Columbia, Canada), 2Feb
6. The co-organization with the Institut Français du Portugal of 6 sessions of the Café Philo, that were dedicated to the following subjects: Superstition (January), Spirituality (February), Creativity (March), Revolution (April), Passion (May), Nostalgia (June)
7. The organization of 5 book presentations, such as:
   - Solaris. Sistema Beta Pictoris, by Rodrigo Vilhena. Book presented by José R. Croca, Catarina Nabais and Olga Pombo, 13May
   - As Imagens com que a Ciência se Faz, edited by Olga Pombo and Silva Di Marco. Book presented by Palimira Fonseca da Costa, 1Jun
   - Marie Sklodowska Curie – Imagens de outra face, by Raquel Gonçalves-Maia. Book presented Olga Pombo and José Manuel Anes, 9Nov
8. Integrated members of CFCUL gave several interviews, of which we highlight:
   - Interview with Olga Pombo to TVCiência about the exhibition "corpoIMAGEM", February
   - Interview with ZbigniewKotowicz to BBC Radio 4 about Egas Moniz, 7 November
   - Interview with Olga Pombo to TV program ComCiência (RTP2) about the exhibition "corpoIMAGEM", 23Feb
   - Interview with José R. Croca to Brasil 247, 14Jun
Interview with Olga Pombo to Página da Educação about "A escola é o lugar onde a memória se faz futuro", n.º 195, pp.9-20
Interview with António Bracinha Vieira to Ana Marques Gastão, Colóquio/Letras, n.º 177, pp.151-166

9. CFCUL’s integrated members were invited by High Schools to give talks, namely:

- Ciência e Interdisciplinaridade, by Olga Pombo. Jornadas Interdisciplinares organizadas pelo Núcleo de Estudantes de Psicologia e Ciências da Educação da Universidade de Coimbra, 22 March
- A importância da Filosofia para a compreensão das relações entre Arte e Ciência, by Olga Pombo, Escola Secundária Maria Amália Vaz de Carvalho, 28 March
- Celebrar McLuhan. Escola e Currículo na sociedade de informação, by Olga Pombo, Escola Secundária Sebastião e Silva, 4 April
- Lugares da Escola, by Olga Pombo, Escola Secundária Prof. Herculano de Carvalho, 4 Maio

### Funding

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA FCT</td>
<td>0,00</td>
<td>0,00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Units FCT</td>
<td>27,989,00</td>
<td>99,515,63</td>
<td>110,859,38</td>
<td>104,393,00</td>
</tr>
<tr>
<td>Projects FCT</td>
<td>86,776,00</td>
<td>77,372,00</td>
<td>67,811,50</td>
<td>25,915,12</td>
</tr>
<tr>
<td>Other (National)</td>
<td>20,700,00</td>
<td>21,568,00</td>
<td>8,600,00</td>
<td>5,761,12</td>
</tr>
<tr>
<td>Other (International)</td>
<td>0,00</td>
<td>1,500,00</td>
<td>0,00</td>
<td>0,00</td>
</tr>
<tr>
<td>National Industry</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
</tr>
<tr>
<td>International Industry</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
</tr>
<tr>
<td></td>
<td>135,465,00</td>
<td>199,955,63</td>
<td>187,270,88</td>
<td>136,069,24</td>
</tr>
</tbody>
</table>

### General Indicators

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Researchers Hired (Ciência Programme)</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
</tr>
<tr>
<td>No. of Researchers integrated with PhD</td>
<td>0,00</td>
<td>0,00</td>
<td>0,00</td>
<td>38,00</td>
<td>0,00</td>
<td>0,00</td>
</tr>
<tr>
<td>Training PhDs (PhD thesis completed)</td>
<td>0,00</td>
<td>2,00</td>
<td>0,00</td>
<td>0,00</td>
<td>2,00</td>
<td>2,00</td>
</tr>
</tbody>
</table>

### Researchers Hired

Name: No researchers found...

### Technical Personnel Hired

Name: No technical personnel found...

### Additional Comments

### Research Groups

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title / Principal Investigator</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG-LVT-678-799</td>
<td>Unity of Science (Olga Maria Pombo Martins)</td>
</tr>
<tr>
<td>RG-LVT-678-800</td>
<td>Philosophy of Nature Sciences (José Nanes Ramalho Coça)</td>
</tr>
<tr>
<td>RG-LVT-678-1049</td>
<td>Philosophy of Life Sciences (António José Feliciano Barbosa)</td>
</tr>
<tr>
<td>RG-LVT-678-1053</td>
<td>Science and Art (Catarina Pombo Martins de Castro Nabaú)</td>
</tr>
<tr>
<td>RG-LVT-678-3746</td>
<td>Philosophy of Human Sciences, Ethics and Politics (Nuno Gabriel de Castro Nabal dos Santos)</td>
</tr>
<tr>
<td>RG-LVT-678-3747</td>
<td>Philosophy of Mathematics (Augusto Jose Franco de Oliveira)</td>
</tr>
</tbody>
</table>

### Strategic Project Adjustments

- In general terms, the CFCUL was able to develop the foreseen research and activities. However, some outputs had to be delayed because of diverse reasons.
- Due to unforeseen academic bureaucracies, 3 PhD thesis (Alexander Gerner, Joao Cordovil and José Carlos Tiago de Oliveira) is will be argued in...
Although some of the foreseen books for 2011 were not published they were concluded and are actually in press (for instance, O. Pombo, "Os círculos do saber"; Nuno Melim, "Visível e Enunciável", Z. Katowicz, "Psychosurgery. The birth of a new scientific paradigm"; I. Serra and M. de Paz "Henri Poincaré, Filosofia da Física). Some seminars had to be postponed for 2012 ("On Non-Linearity" by Carlos Ramos; "Metaphysics of Science", by Maílida Blanc). Although it has not been possible to start the series of conferences "Rethinking Biology and Evolution: new approaches to the new century" in 2011, it was possible to put forward a seminar on Philosophy and Biology that was not originally planned in the strategic project.

- In financial terms, any adjustment was necessary.