



5th International Conference on the History of Chemistry

“Chemistry, Technology and Society”

ESTORIL & LISBOA – PORTUGAL
6 – 10 September 2005

Third Circular

The aim of the conference

The previous conference organised by the Working Party (WP) on History of Chemistry of the European Association for Chemical and Molecular Sciences (EuCheMS) – formerly Federation of European Chemical Societies (FECS) – was held in Budapest in September 2003 on “Communication in chemistry in Europe, across borders and across generations”. A major aim of these conferences organised by the WP is to facilitate communication between historically interested chemists and historians of chemistry from all over Europe.

Under the large umbrella of the theme “Chemistry, Technology and Society”, the present conference will mainly focus on three topics, which all have attracted public and scholarly attention in recent years. By discussing the cultural and material influences on chemistry, as well as the practical and cultural impacts of this discipline, the conference aims at improving our understanding of the place of chemistry in its technological and social environments. Some special sessions will also be devoted to the development of Portuguese chemistry.

Main topics of the conference

- * *The material culture of chemistry: laboratory practices and instruments*
- * *Applied chemistry: the chemical industry, military technologies, technological processes, agricultural and food chemistry, and the environment*

- * *The popularisation of chemistry: practices, spaces, audiences*
- * *Portuguese chemistry*

Important messages

(1) Please note that the **deadline for registration** and of communicating the estimated time of your arrival is 15 August 2005

<i>Final registration deadline; and communication of estimated time of arrival at Lisbon airport</i>	<i>15 August 2005</i>
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(2) In order to **register** download the *Registration Form* or make your *Registration Online* at the home page of the conference. The conference fee must be paid immediately following the registration, using one of the ways of payment indicated below.

After 15 May 2005	
<i>Participation fee 4 days conference (6-9 Sept'05)*</i>	EUR 260
<i>Saturday excursion fee (10 Sept'05)[#]</i>	EUR 50

**The participation fee includes: coffee breaks, lunches, dinners, transports (Hotel – Conference location – Hotel & Hotel – Airport – Hotel) and excursions. It does not include the hotel accommodation.*

[#]*The Saturday excursion fee includes: lunch, transport and excursion.*

The total amount should be paid in EURO. There are different ways of **payment**: *bank transfer, credit card or cheque*. For further information, please contact: 5ichc-portugal@ulusofona.pt.

Those who want to attend the Workshop on 6 September should contact Anita Kildebaek Nielsen at: anita@kildebaek.dk. They should pay an extra amount of 20 EUR for lunch, coffees, etc., in cash at the information desk of the conference.

(3) The abstracts of papers and posters have been placed on the **conference home page**:
<http://5ichc-portugal.ulusofona.pt/>

Please consult this website frequently for up-dates.

(4) The papers of the conference will be printed in the form of **proceedings**, with a limited distribution among the participants of the conference only. A selection of the papers will be published in the form of **edited books**, on which more information will be given later.

The text of the 20 minutes presentation – with a maximum length of 10 pages, including notes and references, using Times New Roman, point 12, lines spacing 1.5, margins 2.5 cm (top-bottom, left-right) – should be send the Local Committee (Sichc-portugal@ulusofona.pt) **before 15 November 2005**. Also those who will present a poster at the conference, have the opportunity to send an extended version of their poster, with the same maximum of 10 pages, to the Local Committee.

In order to stimulate fruitful discussions during the conference, as well as more detailed comments on papers, the Local Committee open the opportunity that papers which are received **before 25 August** will be 'precirculated' by placing them on the website of the conference.

(5) Concerning the **posters**, the dimensions of each poster should be 120 cm high and 80 cm wide.

Time and Location

Schedule of the conference

Date	Time	Location
Tuesday, 6	09:00-16:30	<i>Workshop on 'European chemical societies. Comparative analyses of demarcation', organised by Anita Kildebæk Nielsen and Soňa Štrbáňová (at Hotel Estoril Eden, Estoril)</i>
Tuesday, 6	15:00 – 19:00	<i>Arrivals of the other participants at the Hotel Estoril Eden</i>
Wednesday, 7	09:30 – 12:35	Academia das Ciências de Lisboa, Lisboa
	13:00 – 17:00	Museu da Farmácia, Lisboa
Thursday, 8	09:00 – 18:40	Hotel Estoril Eden, Estoril
Friday, 9	09:00 – 10:20	Business Meeting Working Party; no programme for other participants. Those who will present a poster in Poster Session II can prepare their poster at Universidade Lusófona before 11.00h.
	11:00 – 16:00	Universidade Lusófona de Humanidades e Tecnologias, Lisboa

	16:00 – 19:00	<i>Visit to the Aqueduto das Águas Livres, Lisboa</i>
Saturday, 10	09:30 – 11:00	Laboratório Chimico da Escola Politécnica, Lisboa
	11:00 – 19:00	<i>Touristic/ scientific visit to Região de Turismo do Oeste</i>

Language

English will be the conference language. No interpretation will be provided.

Transport Hotel – Airport – Hotel

On **6 September**, for those who come by air, there is a **bus that will take you from Lisbon International Airport to Estoril (hotels Estoril Eden and Sabóia)**, at two different times: *15:00* and *17:00*. Please email your estimated time of arrival before **15 August 2005** to the local organising committee at 5ichc-portugal@ulusofona.pt.

During the conference all transportation is cared for. Transport Hotel-Airport on Saturday (September 10) and Sunday (September 11) will be provided. Please, see the timetable at the home page of the conference.

Also participants of the **Workshop** who arrive on **5 September** are kindly requested to send their times of arrival to the Local Committee before **15 August**. The Local Committee will try to arrange collective transport for them.

For those who arrive at times that differ from the hours indicated above, we can advise you the following possibilities:

1. You can take the bus from the Airport to Estoril Turismo (takes about 30 minutes). See the timetable at: <http://5ichc-portugal.ulusofona.pt/timetable.htm>
On the same website, also bus connections to other destinations are indicated.
2. If you travel to Estoril via other places in the Lisbon-Cascais region, you can travel by metro to railway station Cais do Sodré (see: <http://www.metrolisboa.pt/diagrede.htm>), and there you should take the train in the direction Cascais. Leave the train at the station of Monte Estoril. See the timetable on: http://www.cp.pt/linhas/cascais/horarios/e_horario1.html
3. You can also take a taxi to Estoril, which will cost about 20 EUR.

For general orientation, see:

<http://www.portugalvirtual.pt/tourism/costadelisboa/estoril/indexp.html>

Workshop

For the details of the Workshop on Tuesday 6 September, see:
<http://www.kildebaek.dk/index.php?id=87>

Programme for Accompanying Persons

Hotel Estoril Eden offers several touristic possibilities. At the hotel desk the accompanying persons can book tickets for following trips:

- Touristic Lisbon
- Estoril Coast and Sintra (includes the westernmost point of Europe)
- Arrábida / Sesimbra
- Mafra / Sintra
- Cruise on Tagus

The accompanying persons can choose every day their own trip, according to their preferences.

Visit to the Aqueduto das Águas Livres, Lisboa (Friday 9 September)

The aim of this visit is to know a technical solution built in the 18th century in order to give a solution for the problem of the lack of water in Lisbon.

Built by the initiative of the king John the 5th, water came to Lisbon without using machines or siphons, only through opened stone pipes, by gravity.

In our visit we will see how different kinds of water were gathered in the aqueduct, and how water and pipes were cleaned, either using decantation basins, or removing incrustations from the pipes, as well as we will see how water from around 60 sources was managed into the aqueduct system.

After visiting the sources till Carenque Valley, we will cross Alcântara Valley through the top of the monumental arches, where we have the biggest stone arch of the world.

We will end our visit at Mãe d'Água das Amoreiras, the big reservoir from where water flow to the monumental fountains built on squares all over the city of Lisbon.

Visit to the Região de Turismo do Oeste - Ceramics, Salinas (Salt works), including lunch (Saturday 10 September)

The visit to the Oeste Region includes a trip to the medieval town of Óbidos and a stop at a wine cellar for some wine tasting before lunch. Then we will drive to Caldas da Rainha, where we will have lunch. During the afternoon we will visit a typical ceramics factory as well as some of the town museums, including the José Malhoa Museum, which houses a great part of the work of the famous caricaturist Bordalo Pinheiro. When returning to Lisbon, we will stop to see the salt works at Rio Maior.

Accommodation

In order to book accommodation, please contact Hotel Estoril Eden directly.

Single Room*	Double Room*	
<p>Hotel Estoril Eden (Garden, Swimming pool, Heated swimming pool, Health club, Sauna, Night club, Tobacconist, Garage, Air conditioning in public areas, Conference rooms, Banqueting rooms, Restaurant, Grill, Snack-bar, Bar, Installations for handicapped, General safe, Air conditioned room, Direct dialing, Sound/radio in bedrooms, TV in bedrooms, Safe in bedrooms, Kitchenette)</p> <p>Avenida Sabóia, 209 – Monte Estoril – 2769-502 Estoril, Portugal PHONE: (+351) 214 667 600 FAX: (+351) 214 667 601 EMAIL: eden@mail.telepac.pt www.hotel-estoril-eden.pt</p> <p>Booking through the email: reservas@hotelestorileden.pt and refer to the congress SICHC</p>	<p>EUR 100 (with sea view)</p> <p>EUR 90 (without sea view)</p>	<p>EUR 120 (with sea view)</p> <p>EUR 110 (without sea view)</p>

*Price per day

Contacts

All correspondence with respect to organisational matters should be addressed to:

5th International Conference on History of Chemistry
Sociedade Portuguesa de Química
c/o Mr. Ricardo S. Reis dos Santos (executive secretary)
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Phone: (+351) 217 934 637 or 217 515 500
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Detailed Programme of the Conference & the preceding Workshop

Tuesday 6 Sept	Workshop on 'European chemical societies. Comparative analyses of demarcation', organised by Anita Kildebæk Nielsen and Soňa Štrbáňová (at Hotel Estoril Eden)
9.00-9.30	Welcome and introduction by Anita Kildebæk Nielsen (Denmark)
9.30-9.45	Nathan M. Brooks (USA) and Masanori Kaji (Japan), 'The formation of the Russian Chemical Society (1868) and its history up to 1914'
9.45-10.00	Anders Lundgren (Sweden), 'The background to the founding of the Swedish Chemical Society'
10.00-10.15	Bjørn Pedersen (Norway), 'The early history of the Norwegian Chemical Society'
10.15-10.30	Anita Kildebæk Nielsen (Denmark), 'Creating a Danish identity in chemistry'
10.30-10.45	Jeffrey A. Johnson (USA), 'Discipline – industry – profession. Lines of demarcation in German chemical organizations, 1867-1914'
10.45-11.00	Halina Lichocka (Poland), 'The history of development of chemical societies on Polish lands before 1914'
11.00-11.15	W. Gerhard Pohl (Austria), 'A short history of the Austrian Chemical Society'
11.15-11.30	Coffee/tea break
11.30-11.45	Robin L. Mackie (UK), 'The demarcation of the British chemical community, 1870-1914'
11.45-12.00	Brigitte Van Tiggelen (Belgium), Ernst Homburg (The Netherlands), and Hendrik Deelstra (Belgium), 'From industry to academia. The chemical societies in Belgium and the Netherlands'
12.00-12.15	Alan Rocke (USA), 'The Société Chimique and the professionalization of chemistry in nineteenth-century France'
12.15-12.30	Soňa Štrbáňová (Czech Republic), 'Chemical Societies in the Czech lands 1866-1920'
12.30-12.45	Éva Vámos (Hungary), 'Chemical societies in Hungary'
12.45-13.00	Luigi Cerruti (Italy), 'Unicuique Suum. The delayed establishment of a united Italian Chemical Society'
13.00-13.15	Ana Simões, Ana Carneiro, Vanda Leitão, António Manuel Nunes dos Santos (Portugal), 'The history of the Portuguese Society of Chemistry (1911-1926)'
13.15-14.30	Lunch
14.30-15.15	Discussion by the invited participants
15.15-16.00	General discussion by all present
16.00-16.30	Concluding remarks by Soňa Štrbáňová (Czech Republic)
15.00-19.00	Arrivals of those who don't take part in the Workshop, and registration for the Conference at the Hotel Estoril Eden

20.00-22.30	Dinner buffet at the Hotel Estoril Eden (for participants in the Conference)
Wednesday 7 Sept 9.30-12.35	Opening session (in the Academy of Sciences) <i>chair: Maria Elvira Callapez</i>
9.30-10.00	Prof. José Manuel Toscano Rico and Prof. José Vitorino Pina Martins, President and Vice-President of the Academia das Ciências de Lisboa Prof. José Manuel Martinho, President of the Sociedade Portuguesa de Química Prof. Fernando Pina, General Secretary of the Sociedade Portuguesa de Química Prof. Fernando Ramôa Ribeiro, President of Fundação para a Ciência e Tecnologia Prof. Ernst Homburg, Chairman of the Working Party on History of Chemistry
10.00-10.45	Plenary lecture on 'The history of chemistry in Portugal' by Prof. José Ferreira da Silva, Universidade do Porto, Portugal
10.45-11.05	Coffee/tea break
11.05-11.50	Plenary lecture on 'Popularising chemistry: Hands-on or hands-off?' by Prof. David Knight, University of Durham, UK
11.50-12.35	Plenary lecture on 'No more miracles: The unfortunate decline in catalyst innovation' by Prof. John K. Smith, Lehigh University, Bethlehem, PA, USA
12.35-13.00	<i>Walk from the Academy of Science to the Museu da Farmácia (takes about 10 minutes)</i>
13.00-13.30	Visit to the collections of the Museu da Farmácia
13.30-15.00	Lunch at Restaurante A Ver Navios in the Museu da Farmácia
Wednesday 7 Sept 15.00-17.00	Scientific sessions 1A & 1B (at the Museu da Farmácia)
	Session 1A: Portuguese chemistry, 1640-1910 <i>chair: Elisa Maia</i>
15.00-15.25	Luís Miguel Carolino (Brazil), 'Aristotelian theory of mixtures and corpuscular matter conception among Jesuit philosophers in mid-seventeenth century Portugal'
15.25-15.50	M. Serrano Pinto, Isabel Malaquias, M.A.G. Cecchini, L.M. Moreira-Nordemann, and J. Rui Pita (Portugal/Brazil), 'José Pinto de Azeredo's chemical analysis of the air of Rio de Janeiro in late 18th century'
15.50-16.15	Cristina Maria Campos Ramalho (Portugal), 'The teaching of chemistry in Portuguese universities between 1836 and 1910'

16.15-16.40	A.M. Amorim da Costa (Portugal), 'The atomic theory in Simões-Carvalho's "Lessons of Chemical Philosophy" (University of Coimbra, 1851, 1859)'
16.40-17.00	General discussion
	Session 1B: Theory and practice in twentieth century chemistry <i>chair: Colin Russell</i>
15.00-15.25	Pierre Laszlo (France), 'The sucrose inversion experiment and its epistemic significance'
15.25-15.50	W. Gerhard Pohl (Austria), 'Microchemistry was an "Austrian science" for many years'
15.50-16.15	Marco Fontani and Mariagrazia Costa (Italy), 'The twilight of the naturally-occurring elements: Moldavium (MI), Sequanium (Sq) and Dor (Do)'
16.15-16.40	Stephen J. Weininger (USA), 'Theoretical ambitions, empirical constraints, and chemists' intuitions: the saga of the reactivity-selectivity principle'
16.40-17.00	General discussion
20.00-23.00	Welcome drink and dinner at Hotel Estoril Eden
Thursday 8 Sept 9.00-11.00	Scientific sessions 2A & 2B (at Hotel Estoril Eden)
	Session 2A: Applied chemistry through the ages <i>chair: Marco Beretta</i>
9.00-9.25	Evangelia A. Varela (Greece), 'Purple and indigo dyes in the Greco-Roman world'
9.25-9.50	Halina Lichocka (Poland), 'Chemical analysis as a method of discovery in pharmacy in the age of Enlightenment in Europe'
9.50-10.15	Hjalmar Fors (Sweden), 'Chemistry at the Swedish Board of Mines, 1700-1750'
10.15-10.40	Mary Archer (UK), 'Applied chemistry at the University of Cambridge, 1702-2002'
10.40-11.00	General discussion
	Session 2B: Contexts of popularisation <i>chair: Brigitte Van Tiggelen</i>
9.00-9.25	Joachim Schummer (Germany/USA), 'Providing metaphysical sense and orientation: nature-chemistry relations in the popular historiography of chemistry'
9.25-9.50	Andrew Ede (Canada), 'Persuasion and iconography in A. Cressy Morrison's "Man in a Chemical World"'
9.50-10.15	Ana Simões (Portugal), 'C.A. Coulson and the popularization of theoretical chemistry in the twentieth-century'
10.15-10.40	Peter J. T. Morris (UK), 'Presenting chemistry at the Science Museum: its history and current practice'
10.40-11.00	General discussion

11.00-19.00	Poster session I at Hotel Estoril Eden
11.00-11.20	Coffee/tea break
Thursday 8 Sept 11.20-13.20	Scientific sessions 3A & 3B (at Hotel Estoril Eden)
	Session 3A: (Applied) chemistry in the nineteenth century <i>chair: Soňa Štrbářová</i>
11.20-11.45	Jan Trofast (Sweden), 'Jacob Berzelius and the chemical laboratory'
11.45-12.10	Miroslav Novák (Czech Republic), 'Polarimetry and sugar industry'
12.10-12.35	Anita Kildebæk Nielsen (Denmark), 'Nutrition theories in Denmark in the nineteenth-century: before and after Liebig'
12.35-13.00	Anders Lundgren (Sweden), 'Knowledge in early pulp and paper industry'
13.00-13.20	General discussion
	Session 3B: Instrumental practices 1910-1960 <i>chair: José R. Bertomeu Sánchez</i>
11.20-11.45	Annette Lykknes and Lise Kvittingen (Norway), 'The founding of a chemical laboratory at Norway's first Institute of Technology: laboratory practices 1910-1936'
11.45-12.10	Francisco Javier Calvó-Monreal (Spain), 'Molecular biology in Catalonia and the development of X-ray diffraction technology: the structuralist school of Joan Antoni Subirana and Jaume Palau'
12.10-12.35	Keith A. Nier (USA), 'The transformation of atomic weights: new instrumentation and objective progress'
12.35-13.00	Carsten Reinhardt (Germany), 'Electronics meets chemistry: Herbert S. Gutowsky and the beginning of chemical NMR'
13.00-13.20	General discussion
13.20-14.50	Lunch at the Hotel Estoril Eden
Thursday 8 Sept 14.50-16.50	Scientific sessions 4A & 4B (at Hotel Estoril Eden)
	Session 4A: Between industry and academia, 1900-2000 <i>chair: Isabel Malaquias</i>
14.50-15.15	José Claro Gomes (France), 'Between science and industry: the rare earths' school of Georges Urbain (1872-1938)'
15.15-15.40	Elena Zaitseva (Russia), 'A.E. Chichibabin (1871-1945) and the development of chemical and chemical-pharmaceutical industry in Russia'
15.40-16.05	Kenneth Bertrams (Belgium/USA), 'Converting academic knowledge into industrial innovation: strategies of appropriation of university-based research at Solvay & Co. and Gevaert N.V.'

16.05-16.30	Muriel Le Roux (France), 'Between university and industry. The Institute for Chemistry of Natural Substances, the story of an unusual CNRS laboratory: the ICNS, 1960-2000'
16.30-16.50	General discussion
	Session 4B: Nineteenth-century laboratory practices <i>chair: Ursula Klein</i>
14.50-15.15	Alan Rocke (USA), 'Material culture and professionalization of European science: the role of Liebig and German laboratory practice'
15.15-15.40	José R. Bertomeu Sánchez (Spain), 'Sense and sensitivity : Marsh's test for arsenic in European toxicology (1836-1845)'
15.40-16.05	Fernanda Madalena Costa and Isabel Marília Peres (Portugal), 'Historical note on optical methods and related scientific instruments for chemistry use by Lisbon Polytechnic School in the end of the nineteenth and the early twentieth centuries'
16.05-16.30	Soňa Štrbářová (Czech Republic), 'The Prague Wenzel Batka company: business, science, invention, and politics'
16.30-16.50	General discussion
16.50-17.10	Coffee/tea break
Thursday 8 Sept 17.10-18.40	Scientific sessions 5A & 5B (at Hotel Estoril Eden)
	Session 5A: From fertilisers to nerve gases, 1830-1945 <i>chair: Eva Vamos</i>
17.10-17.35	Laurence Lestel (France), 'Fertiliser producers in France in the nineteenth-century: their links with chemists (1830-1870)'
17.35-18.00	Frank Ruhnau (Germany), 'Combustion research in the Third Reich (1937-1945): reflections on a border arena of chemistry, physics and technology'
18.00-18.25	Heinrich Kahlert (Switzerland), 'Why Hitler did not deploy nerve gas agent in World War II?'
18.25-18.40	General discussion
	Session 5B: Communication between Britain and the Continent, 1650-1850 <i>chair: António M. Amorim da Costa</i>
17.10-17.35	D. Thorburn Burns (Northern Ireland), 'The continental editions of the works of Robert Boyle'
17.35-18.00	Fernando Egídio Reis (Portugal), 'Bringing scientific knowledge to Portuguese readers: chemistry in periodicals of Portuguese liberal emigrés (1808-1822)'
18.00-18.25	C.A. Russell (UK), 'The Marreco story'
18.25-18.40	General discussion
20.00-23.00	Dinner at Restaurante Sr. Vinho (Fados), Lisboa

Friday 9 Sept	
9.00-10.20	<i>Business meeting of the EuCheMS Working Party on History of Chemistry (at Hotel Estoril Eden)</i>
10.20-11.00	<i>Transport to Lusófona University</i>
Friday 9 Sept 11.00-13.00	Scientific sessions 6A & 6B (at Lusófona University)
	Session 6A: Chemical technology and biotechnology after World War II <i>chair: Ernst Homburg</i>
11.00-11.25	J. M. Leal da Silva, Gilberto Gomes and Isabel Cruz (Portugal), 'The roasting of pyrites containing arsenic: a case study (Barreiro 1950-1972)'
11.25-11.50	Arjan van Rooij (The Netherlands), 'Re-evaluating the role of industrial research in the 1950s and '60s. DSM's caprolactam research and the development of the HPO-process, 1956-1977'
11.50-12.15	Viviane Quirke (UK), 'From chemistry to pharmaceuticals, and from pharmaceuticals to biotechnology: the many transformations of Imperial Chemical Industries in the twentieth century'
12.15-12.40	Ton van Helvoort (The Netherlands), 'The government is here to stay: recombinant-DNA technology and the autonomy of science in the Netherlands'
12.40-13.00	General discussion
	Session 6B: Public and private faces of chemistry, 1770-1900 <i>chair: Anita Kildebæk Nielsen</i>
11.00-11.25	Núria Pérez-Pérez (Spain), 'The instrumental use of chemistry in biomedicine at the end of the eighteenth century'
11.25-11.50	Anna Simmons (UK), 'Laboratories, liniments and learning: the place of chemistry at the London Society of Apothecaries in the nineteenth century'
11.50-12.15	Marika Blondel-Mégrelis (France), 'Popularisation in chemistry: Liebig, the pre-eminent example'
12.15-12.40	Geert Vanpaemel (Belgium), 'Science, honour and commerce. The public face of chemistry in nineteenth-century Belgium'
12.40-13.00	General discussion
11.00-16.00	Poster session II at Lusófona University
13.00-14.30	Lunch (with wine tasting) at the Universidade Lusófona, Lisboa
Friday 9 Sept 14.30-16.00	Scientific sessions 7A & 7B (at Lusófona University)
	Session 7A: The chemical industry during the interwar period <i>chair: Marika Blondel</i>

14.30-14.55	Erik Langlinay (France), 'Technology, territories and capitalism: the First World War and the reshaping of the French chemical industry (1914-1928)'
14.55-15.20	Nathan M. Brooks (USA), "'Chemization" and the chemical industry in the Soviet Union, 1917-1941'
15.20-15.45	Declan O'Reilly (UK/USA), 'Black gold: Standard Oil of New Jersey, I.G. Farbenindustrie A.G. and the politics of synthetic oil 1925-1945'
15.45-16.00	General discussion
	Session 7B: Practice and theory before Lavoisier <i>chair: Halina Lichočka</i>
14.30-14.55	Mi Gyung Kim (USA), 'Experimental systems and theory domains in pre-Lavoisian chemistry'
14.55-15.20	Maria Helena Roxo Beltran (Brazil), 'The art of distillation in manuscripts and early printed books: transmission of practical knowledge'
15.20-15.45	Roman Mierzecki (Poland), 'Error in chemical manuals: the priority of Lavoisier unjustly questioned'
15.45-16.00	General discussion
16.00-19.00	Visit to the Aqueduto das Águas Livres, Lisboa
19.00-21.00	Closing session & cocktail at Mãe d'Água, Lisboa

Following posters will be presented in two sessions.

(I) Poster Session I on Thursday 8 September, 11.00-19.00, in Hotel Estoril Eden

Willem J. Hornix (The Netherlands)	The role of the history of science in science education
Isabel Amaral and C. Barreira (Portugal)	Chemistry applied to medicine: the School of Tropical Medicine of Lisbon (1902-1942)
António Costa Canas and Carlos Valentim (Portugal)	Portuguese pharmacopoeia in the Renaissance: Tradition and innovation
Sara Carvalho (Portugal)	Experimental work in the chemistry courses of the Polytechnic School of Lisbon: 19th century and beginning of the 20th century
Pedro Casaleiro, Catarina Pires (Portugal)	Laboratório Chimico of Coimbra University: A new Museum space
Arne van der Gen (The Netherlands)	J.H. Van't Hoff, 1874: The extension of chemical formulas into space
Robert D. Hicks and Rob Lukens (USA)	The Chemical Heritage Foundation Institute: An innovation in promoting chemical history

Juergen Heinrich Maar (Brazil)	The periphery of peripheric science
Glen E. Rodgers (USA)	Scientific/historical travel seminars in Europe
Susana Santos (Portugal)	The <i>Revista de Chimica Pura e Applicada</i> and the foundation of the Portuguese Chemical Society
Leal da Silva, J.M. (Portugal)	Do you know Mr. Stinville?
Emília Vaz Gomes and Isabel Malaquias (Portugal)	The development of physics and chemistry teaching at the University of Coimbra and the emergence of spectroscopy (1860-1880)
Bernardo Jerosch Herold (Portugal)	Two centuries of Portuguese chemical nomenclature
George N. Vlahakis (Greece)	Alchemy survived? An alchemical manuscript, Anastasios Christomanos and the status of chemistry in late 19th century Greece

(II) Poster Session II on Friday 9 September, 11.00-16.00, at Lusófona University

Maria Elvira Callapez (USA/Portugal)	The challenge of PVC and regulation – must we abandon this important useful material?
Elisa Maia and Natacha Quádrio (Portugal)	Safety regulations in chemistry laboratories in schools and universities – past and present
Maria Filomena Camões (Portugal)	Golden pages of the history of chemistry in Portugal
Isabel Cruz (Portugal)	From the “Instituto Industrial e Comercial de Lisboa” to the “Instituto Superior Técnico” – What Transition? (1892 – 1922)
Heinrich Kahlert (Switzerland)	Walther Bothe`s error in World War II
Sandra Lopes, Maria Teresa Carreira (Portugal)	Bernardino António Gomes and the Isolation of Chinchonine in the early 19 th century – a polemic work
Elisa Maia, Ricardo Pestana (Portugal)	A data base of ancient laboratory material of chemistry and physics existing in old schools and in the Science Museum of the University of Lisbon
Sandra Lopes (Portugal)	Ferreira da Silva and toxicology in Portugal by the end of the 19th century: The legal case of Urbino de Freitas
Isabel Serra and Nuno Peiriço (Portugal)	Portuguese chemists and radioactive minerals
Vanda de Carvalho Vitorino and Maria do Carmo Elvas (Portugal)	Retorts – mythic pieces of chemical equipment
Lurdes Cardoso and Maria Adelaide Salvado (Portugal)	China Root In Connection To The Cure Of The Syphilis

Alexandra Silva (Portugal)	The importance of Analytical Chemistry in Industry
Maria Leonor Pereira and Rui Pita (Portugal)	Chemistry Applied To Medicine And Public Health - The Work Carried Out By Charles Lepierre (1867-1945) In Portugal
Raul Vital (Portugal)	Águas Livres aqueduct. Science and Technology in 18th Century in Portugal in Water Supply.