

1st International Conference on Innovation in Art Research and Technology

Hercules Laboratory – University of Evora, 10th-13th of July 2013

Scientific objects in the exhibition CHIMICA the art of transforming matter

Fernando ROSADO^{1*}, Teresa FERREIRA^{2**}, Margarida FIGUEIREDO³, Cristina GALACHO³, Paulo MENDES³, Antónia FIALHO CONDE⁴, Ana Teresa CALDEIRA², António CANDEIAS², Mariana VALENTE⁵

*fernandorosado.510@esag.edu.pt, ** tasf@uevora.pt, +351 266 745311 / +351 266 745303

Secondary School André de Gouveia (ESAG) is frequently associated to Liceu de Évora from which it inherited the historical and cultural background. Lyceu Nacional d'Évora was established in 1841 after the educational reform of Passos Manuel and was set at Colégio do Espírito Santo, in Évora, until 1979. During that period, a physics and chemistry laboratory was created and developed at the Liceu and it was enriched with brand new scientific objects and small equipment to be used in classes, especially in teaching demonstrations. Crosschecking the information from the records kept at the library of ESAG, sales catalogues and teaching books from that period and information from other sources, it was possible to find out, in several cases, who the seller or the manufacturer of the object was and its function in an experimental design at the laboratory. Reagents, playing a fundamental role at the laboratory, are also an interesting subject. Analytical balances, gasometers, pneumatic machine or alembic are some of the objects that are analysed from a real and historical point of view. Part of this collection was recently exhibited in the Évora Museum under the name of CHIMICA | a arte de transformar a matéria (CHIMICA | the art of transforming matter). Chemistry depends on working with material things and processes and a chemistry laboratory is, in fact, a prototype of a large-scale industry through the synthesis of chemical compounds and the interaction with technological processes.



Alembic Dujardin-Salleron. Manufacturer: Dujardin-Salleron, Paris, France.

¹Escola Secundária André de Gouveia

²Laboratório HERCULES, Centro de Química de Évora e Departamento de Química da Universidade de Évora

³Centro de Química de Évora e Departamento de Química da Universidade de Évora

⁴Laboratório HERCULES, Centro Interdisciplinar de História, Culturas e Sociedade da Universidade de Évora e Departamento de História da Universidade de Évora

⁵Centro de Estudos de História e Filosofia da Ciência e Departamento de Física da Universidade de Évora

1st International Conference on Innovation in Art Research and Technology



Hercules Laboratory – University of Evora, 10th-13th of July 2013

The authors acknowledge Susana Rodrigues for the photos of the objects, Paulo Teles for photos post-production and Nuno Carriço for image editing.

Keyworks: CHIMICA; scientific objects; Liceu de Évora; ESAG

References:

[1] consulted websites:

http://www.dujardin-salleron.com/societe/http://www.kern-sohn.com/lshop,inline,13637005095337,en,1363700510-5337,,,124,,..htmhttp://www.kern-sohn.com/cosmoshop/default/pix/user_img/zusatzseiten/Themen_Historie.pdfhttp://www.sil.si.edu/digitalcollections/trade-literature/scientific-instruments/CF/Slcompany-names-drilldown.cfm

[2] J. Salleron, Notice sur les instruments de précision: construits par J. Salleron, 3^{éme} et 4^{éme} parties, Paris, 1864.