



EUROPEAN JEWELLERY TECHNOLOGY NETWORK

Thematic Network



Contract n° BRRT-CT98-5060

EC Contribution
497 500 ECU

Starting Date
15 September 1998

Closing Date
14 September 2000

Duration
24 months

EC scientific officer
Eva-Marie ENGDHAL
Fax: +32-2-295 80 46

Coordinator
European Jewellery Technology
Network
European Economic Interest
Grouping
Rue Washington, 31
1050 Bruxelles
Belgium

Operative Headquarters:
EJTN - GEIE
c/o CNR TeMPE
via R. Cozzi, 53
20125 Milano
Maria Luisa Vitobello
Tel.: +39-2-66173359
Fax: +39-2-66173321
E-mail: ejtn@tempe.mi.cnr.it
www.ejtn.org

Phoemina Vase (dull and bright)
Des. Gabriele de Vecchi, 1978
Argento 925888 - sterling silver
An object in dull silver is perceived as different when it is bright (polished): it becomes a mirror and reflects whatever surrounds it, interacting with the environment

Network Overview

The Network main objectives are to develop synergies among European organisations, industries, research centres, academic organisations active in scientific and technological projects and training activities, involved in the European Jewellery Industry; to improve the exchange of information and knowledge among the different participants; to facilitate technology transfer to the low-tech end-users and accelerate the dissemination and exploitation of results from research activities through a co-ordinating action.

The European Jewellery Industry is considered to be of a relatively low technological content. There is a serious lack of knowledge on specific materials, low awareness of quality in process technologies; and most Countries suffer from a low level of technical training. The majority of the European Jewellery Industry is based on conventional technologies and is not open easily to advanced technologies. This is mostly due to the dimension of production structures in this industry, formed mainly by micro-SMEs, without in-house research facilities and sometimes with a low level of managerial culture. Some

European Jewellery industries - the largest ones and the most advanced and innovative SMEs - carry on their in-house research and training; and some Research Centres and Universities are working on materials (precious metals) and technologies. The European Jewellery Industry needs to be updated on the research projects closed and in progress and to be brought to a better and higher-level of technology through technology transfer from other industries. Dissemination of results deriving from these activities and training on latest technologies must be promoted and improved as well.

The Network partners whose function is to support local industry, such as CNR in Italy, CETEHOR in France, UCE in the UK, FEM in Germany and TNO in the Netherlands will transfer technologies to both the industry and SMEs. The Universities involved would profit from this exchange of information and use it in their educational functions.

To reach the network objectives, there will be several approaches and activities:

- state of the Art review and market;
- evaluation of training and courses suited for industry and SME needs, through confrontation with operators and experts to be organised at European level on design, materials, production technology, craftsmanship and management for the jewellery industry. Evaluation of proposals to fill the gaps in the education, training and implementation field;
- evaluation of possibilities to transfer and apply technologies from related industries, for instance microelectronics, precision technology and dental industry;
- technology transfer and implementation of new techniques by suppliers of equipment and consumable, research centres, universities, consultants and media;
- setting up a priority list of promising new technologies and methods to adapt them to the jewellery industry;

European Dimension and Partnership

The European Jewellery Industry basically uses the same technical language: state-of-the-art and research know-how must be brought to this sector; knowledge needs to be exploited and trans-