

## Program Committee

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Daniel Brissaud (INP Grenoble)  
Ignace Verpoest (KU Leuven)

## Paper proposal

Paper proposals should be submitted in several steps

30 November: a title, authors' names and affiliation and indication of the session theme

31 December: a 500 words abstract.

Send the proposal by email to all 4 contact persons below.

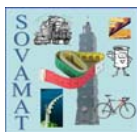
Papers for the seminar will be selected early in February. A written paper is requested by the 30<sup>th</sup> of March 2008. The proceedings will be published on a CD-ROM with an ISBN number.

Participation to the conference will be free of charge.

### Contact persons:

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This workshop is organized in parallel and in support of a series of research proposal to the European 7<sup>th</sup> Framework Program, under the umbrella of SOVAMAT (Social Value of Materials), which is sponsored by the European Steel Technology Platform (ESTEP) and IISI.



## *2<sup>nd</sup> International Seminar on Society and Materials*

*1<sup>st</sup> circular*



**SAM2**

**24-25 April 2008, Nantes, France**

*Ecole des Mines de Nantes*

*La Chantrerie  
4, rue Alfred Kastler. B.P. 20722  
F-44307 NANTES Cedex 3*



## **2<sup>nd</sup> International Seminar on Society and Materials**

### **SAM2**

**24-25 April 2008, Nantes, France**

#### **1<sup>st</sup> circular**

*Materials have accompanied mankind since the dawn of the Paleolithic along its long historical journey through time.*

*Materials have been used to make and help make homes, clothes, pots and pans, tools, machines, weapons, i.e. all the artefacts that distinguish human beings from animals. The connection with the environment has been equally strong, as materials have been extracted out of natural resources - raw materials and energy, and have helped shape the landscape, the countries and the cities for mankind to live in.*

*This bond between materials and society will continue for a long time. Materials will continue to be ubiquitous. Material can even be found in the middle of the word dematerialization, a concept that questions the role that materials will play in society in the future.*

*The first SAM seminar was held in Seville in March 2007. It gathered more than 80 participants during two full days. The proceedings are available on a CD-Rom with an ISBN number. This workshop is the second one in a series that ambitions to regularly bring together various disciplines interested in the relationship between society and materials. This includes social scientists, economists, engineers, materials scientists, industrial ecologists, etc. Thus, for example, historians, anthropologists, LCA practitioners, designers and ecodesigners or literary ecocritics are welcome.*

*By materials, we mean all the materials which have become part of the life of Society as History rolled on: lithic materials, biomaterials and especially wood, metals, from gold to silver and bronze to iron as well as more modern materials, i.e. the materials of today, born from the meeting of mankind's arts and crafts with its scientific view of the world: ferrous and non-ferrous metals - including steel, zinc, aluminum, copper, lead and tin -, cement and concrete, plastics and composites, etc. The list covers most structural materials, but it should also include all other materials, as modern artefacts are a mixture of materials and functions at various levels of scale and complexity, for example in nanomaterials and intelligent materials.*

*It is expected that papers present results as well as critical analyses of existing approaches and methodologies. New approaches are especially welcome.*

*The workshop will more specifically propose sessions on the following themes, to which contributions are expected:*

**1. Social sciences' view of materials and society:** history of materials, history of science, history of technologies, retrospective, sociological, ethnological, anthropological analyses of materials, marketing science approaches, literary eco-criticism, etc.

**2. Economics' view of materials and society:** resource and material economics, environmentally extended Input/Output analysis, computable general equilibrium analysis for the assessment of material use, links between material resources, partial equilibrium modeling, economic growth and sustainability, externalities,

**3. Future studies and prospective of materials and society:** scenario modeling, especially based on various levels of carbon constraint, images of the post-carbon society, resource projections for raw materials and energy, geopolitical evolution of the world's demand, modeling of material demand, etc.

**4. Materials Flow Analysis:** macro and micro level analyses, dynamics and interrelations, integration of economic aspects, handling of complex goods, integration of recycling, standardization,

**5. Life Cycle Methodologies:** dynamic LCA and various methods for integrating time in LCA methodology, streamlined LCA, regionalization, consequential and attributional LCA, hybrid LCA, exergy analysis in LCA, social LCA, uncertainty and sensitivity studies, LCM (Life Cycle Management)

**6. Impact assessment:** LCIA, toxicology and ecotoxicology as metrics of materials/mankind relationship: LCC (Life Cycle Costing), midpoint & endpoint indicators, land use impact, water use impact, biodiversity, human well-being indicators

**7. Design and ecodesign:** ecodesign theory, DfX (Design for Recycling, for maintenance, for disassembly, for re-use, for safety, etc.), design of ecodesign tools, beyond ecodesign

**8. Dematerialization and transmaterialization:** various meanings of the word dematerialization, materials substitution and competition, theory, forecasting and backcasting, modeling of dematerialization & transmaterialization

**9. Indicators on materials and society:** positive indicators, sustainability indicators, eco-efficiency indicators, Key Performance Indicators (KPI)

**10. Open theme** (to accommodate other approaches)

*The Program Committee*