



COST 526
“Automatic Process Optimization in Materials Technology”
(APOMAT)

Half-Yearly Report

To be sent to **V.Tesch@access.rwth-aachen.de** until **August 31, 2002**

1. Reporting Period	1.1.2002 – 30.6.2002
Project title	Optimisation of properties and dimensional stability of composites by controlled fibre placement
Project leader	Dr. Per-Ola Hagstrand
Organization:	Laboratoire de Technologie des Composites et Polymères (LTC) Ecole Polytechnique Fédérale de Lausanne (EPFL) CH-1015 Lausanne, Switzerland
Main collaborators involved	Dr. Per-Ola Hagstrand

2. Funding Situation

Amount of money received specifically for COST 62 000 CHF kEuros (received 2002-06-24)
Other resources partially used for the project

3. International Collaboration

(mention group and type of work done in collaboration during the reporting period)

Participation in the Working Group Meeting in Saint-Dié des Vosges + project progress report

4. Industry participation

(mention name of companies and work done in collaboration during the whole project)

The project will to some extent be carried out in collaboration with DaimlerChrysler, Research and Technology, Ulm, Germany.

5. Meetings, visits, exchange of scientists, short-term scientific missions	Location, date
Visit by Niklas Jansson, potential post-doc on the APOMAT project.	LTC, EPFL, Lausanne, Switzerland, 2002-04-29



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6. Progress within the reporting period

(Not exceeding 3 pages, including tables and figures)

2002-03-13 Decision from OFES/BBW to give 135 000 CHF for 3 years.

2002-05-08 Decision to employ Niklas Jansson from Chalmers University of Technology, Sweden, as post-doc on the project. He will start 2002-11-01.

2002-06-24 First payment from OFES (62 000 CHF).

We will not be able to start to work on the project until Dr. Jansson arrives in November 2002. However, meanwhile work has and will be carried out in another project (IPPC), which is related to the APOMAT project. Results generated within this project, will be valuable and reduce the startup time.

7. List of publications

a) Published

Below are publications that have been generated within the IPPC project, which as mentioned, is related to the APOMAT project:

MECHANICAL ANALYSIS OF MULTI-MATERIAL COMPOSITES MANUFACTURED BY INTEGRATED PROCESSING

P.-O. Hagstrand, M. D. Wakeman, F. Bonjour, P.-E. Bourban and J.-A. E. Månson

Proceedings of SAMPE 2002

Long Beach, California, USA, May 12-16 2002.

COST MODELLING OF A NOVEL INTEGRATED COMPOSITE MANUFACTURING CELL FOR INTEGRATED COMPOSITE PROCESSING

M.D. Wakeman, F. Bonjour, P.-E. Bourban, P.-O. Hagstrand, J.-A. E. Månson

Proceedings of the 23rd International SAMPE Europe Conference

Paris, France, April 9-11 2002.

b) Submitted for publication

ROBOTIC TOW PLACEMENT FOR LOCAL REINFORCEMENT OF GLASS MAT THERMOPLASTICS (GMTs)

M. D. Wakeman, P.-O. Hagstrand, F. Bonjour, P.-E. Bourban and J.-A. E. Månson

Accepted for publication in *Composites Part A*.

c) In preparation

