



COST 526

**“Automatic Process Optimization in Materials Technology”
(APOMAT)**

Half-Yearly Report

1. Reporting Period	1.7.2002 – 31.12.2002
Project title	Optimization of sheet and tube metal forming processes
Project leader Organization	Dr. Laurent Stainier LTAS-MCT Université de Liège
Main collaborators involved	Dr. Jean-Philippe Ponthot Pierre-Paul Jeunechamps

2. Funding Situation	
Amount of money received specifically for COST	0 kEuros
Other resources partially used for the project	100 kEuros

3. International Collaboration (mention group and type of work done in collaboration during the reporting period)
Participation in the Working Group Meeting in Budapest + project progress report X YES

4. Industry participation (mention name of companies and work done in collaboration during the whole project)
Collaboration with the following partners is expected: <ul style="list-style-type: none"> • RDCS (RD center of Arcelor) • Samtech (software company)

5. Meetings, visits, exchange of scientists, short-term scientific missions	Location, date
Work Group Meeting Worg Group Meeting	Saint-Dié des Vosges, May 21-22, 2002 Budapest, November 28-29, 2002

6. Progress within the reporting period

(Not exceeding 3 pages, including tables and figures)

First part of the project started in October 2002, with the hiring of researcher (P.P. Jeunechamps).

The plan in this project is to use Boss/Quattro (Samtech) as the optimization engine, with built-in algorithms and with user-implemented algorithms. Since there has been delays in getting a proper license for Boss, the initial focus was put on the implementation and testing of new optimization algorithms (based on trust regions) developed by the Applied Mathematics group in our department.

7. List of publications

a) Published

b) Submitted for publications

c) In preparation