

# EUROMECH

EUROPEAN MECHANICS SOCIETY

Final Report

Date:

Please send this report to the Secretary-General of EUROMECH, Professor Bengt Lundberg, School of Engineering, Uppsala University, Box 534, S-751 21 Uppsala, Sweden, within one month after the Colloquium.

## General

EUROMECH Colloquium No: 341

Dates: 26-28 Sept. 95

Title: Smart Structures and materials

Co-Chairman: J.m. Crolet and A. Preumont

Place and country: Giens (Var), France

Is there need of another colloquium on the same subject? Which year?

## Finance

Conference fee: 200 FF

The fee included: conferences, books of abstracts, lunch

Funding: 15 000 FF (CNRS)

Accommodation (type and cost): 2200 FF single room, breakfasts and all lunches

Meals:

## Participation

Number of participants from each country:

Austria	_____	Germany	7	Rumania	2
Belgium	3	Great Britain	6	Russia	_____
Bielorussia	_____	Greece	4	Slovakia	_____
Bosnia	_____	Hungary	_____	Slovenia	_____
Bulgaria	_____	Ireland	_____	Spain	2
Croatia	_____	Italy	8	Sweden	_____
Czech Republic	_____	Latvia	_____	Switzerland	3
Denmark	_____	Lithuania	_____	Ukraine	_____
Estonia	_____	Netherlands	_____	Yugoslavia	_____
Finland	_____	Norway	1	Others	_____
France	30	Poland	_____		_____
Georgia	_____	Portugal	_____		_____
				Total	70

USA 2  
Japan 2  
N. Zeland 1  
Telerep 4

Please turn

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From : Prof. Jean-Marie CROLET

Number of pages including this one : 2

MESSAGE :

Sorry for this delay

A handwritten signature consisting of a long horizontal line with a stylized 'J' or 'C' shape at the end.

## Colloquium EUROMECH 341

### I Scientific report

The objective of the colloquium Euromech 341 dealing with the "Smart Structures and Materials" was, first to favor the connection of disciplines concerned by the development of this new sector of activity and then, to summarize the advances in the knowledge and in the techniques for the concept of smart materials.

Among 85 persons having intended to participate, 65 congressists were present at Giens to assist at 39 presentations of works. Twelve countries were thus represented and one can think that the main european teams working on this subject were presented. One can nevertheless regret that the participation of researchers from countries of the CEI has been not enough important.

The connection of disciplines has concerned various aspects of mechanics, mathematics and to a lesser degree of automatic. Many congressists have appreciated this range of subjects, but it seems desirable to include, in the future, the automatic in a more important proportion as well as the electronics and the science of materials.

It is pleasant to establish that all presentations were good or very good, so for theoretical aspects that for industrial realizations. Many prominent theoretical results have been exposed: the major part of them are relative to methods for stabilization of elastic, air-elastic and acoustics structures. New mathematical results on problems of stabilization that have been quoted prove that there are important advances in this subject by the european mathematical and mechanical communities. It seems elsewhere that this aspect is a bit better developed by Europe that to USA. The descriptive of experimental results or industrial realizations have made sensation. Elsewhere, at the end of this conference, many participants thought that the smart materials concept had become a reality in Europe since it gives already birth to the first industrial realizations.

To conclude, one observes that the two objectives initially fixed for this conference have been reached. All the participants have appreciated this meeting and they have wished the organization of other such conferences.

## **II Technical report**

65 persons among the 85 registered were present ( see the delegate list )

39 works have been presented ( see the program )

This encounter has been held in the magnificent framework of the Giens's peninsula, on the mediterranean seaside, in front of Porquerolles's island. The timetable, with a break from 12h30 to 16h00 has allowed many professional contacts between participants.

Alone the CNRS ( Centre National de la Recherche Scientifique ) has financially supported this conference for 15 000 FF. Inscription fees were, in accordance with the demand of the European Society of Mechanics, very low : 200 FF