

EUROMECH

EUROPEAN MECHANICS SOCIETY

Final Report

Please send this report to the Secretary-General of EUROMECH, within one month after the Colloquium.

EUROMECH Colloquium No: 369

Title: Fluid-Structure Interaction in Acoustics

Dates and location: 23-26 September 1997, Scheveningen, The Netherlands

Chairman: A.H.P. van der Burgh

Co-Chairman: P.J.T. Filippi

Is there need of another Colloquium on the same or a related subject? Which year? Yes, 2000

Full registration fee: USD 190,- for non EMS members

USD 150,- for EMS-members

What other funding was obtained? Funds were obtained to invite six Russian researchers as well as to support some young researchers.

What were the participants offered? Participation, including use of infrastructure such as overhead projectors, videosystem, e-mail facilities etc, four lunches and a conference dinner.

Number of members of EUROMECH (reduced registration fee):

Number of non-members of EUROMECH (full registration fee):

Number of participants from each country:

Austria	<u> </u>	Germany	<u>5</u>	Romania	<u> </u>
Belgium	<u>3</u>	Great Britain	<u>9</u>	Russia	<u>6</u>
Byelorussia	<u> </u>	Greece	<u> </u>	Slovakia	<u> </u>
Bosnia	<u> </u>	Hungary	<u> </u>	Slovenia	<u> </u>
Bulgaria	<u> </u>	Ireland	<u> </u>	Spain	<u> </u>
Croatia	<u> </u>	Italy	<u>1</u>	Sweden	<u>1</u>
Czech Republic	<u> </u>	Latvia	<u> </u>	Switzerland	<u> </u>
Denmark	<u> </u>	Lithuania	<u> </u>	Ukraine	<u> </u>
Estonia	<u>1</u>	Netherlands	<u>13</u>	Yugoslavia	<u> </u>
Finland	<u> </u>	Norway	<u>2</u>	Others USA	<u>2</u>
France	<u>10</u>	Poland	<u> </u>	Total	<u>53</u>
Georgia	<u> </u>	Portugal	<u> </u>		

Please turn

Scientific Report

The theme of Euromech Colloquium 369 was concentrated on the interaction of sound and vibrating structures. The interaction was related to the study of weak and strong coupling that is with a gas respectively with a fluid.

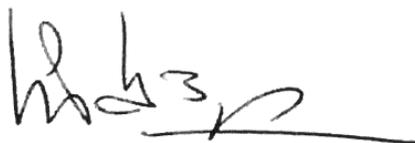
Both experimental as theoretical studies were included.

The following sections were part of the program:

1. Experimental Studies
2. Inverse Problems and Active Control
3. Non-linear Fluid-Structure Interaction
4. Structure Exatation by Fluids
5. Numerical Models and Methods
6. Analytical concepts and Methods.

Five general lectures were presented as well as ten invited lectures. Among the participants a numberof leading researchers were present; this had a significant impact on both the level of the presentations as on the level of the discussions. Many participants have expressed that they were impressed by this level as well as the possibilities to have personal contracts with Colleague-researchers. More detailed information can be obtained from the book of abstracts.

Delft, 27 November 1997,



A.H.P. van der Burgh.