

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

General Ing. Miloslav Okrouhlík, CSc.

Euromech Colloquium No: 306

Title: CONTACT IMPACT

Co-Chairmen: Ing. Ivo Huněk, CSc.

Place and country: Institute of Thermomechanics, Academy of Sciences
Dolejšková 5, 182 00 Praha 8, Czech Republic

Dates: 7. - 9.9. 1993

Finance

The conference fee 230 us\$ included

Funding: Czech Society for Mechanics, Institute of Thermomechanics

Accommodation (type and cost): Academy hotel

Meals: three times a day + string concert + farewell party

Participation

Total number of participants: 47

Distribution of participants by country:

<u>Code</u>	<u>Country</u>	<u>Number</u>	<u>Code</u>	<u>Country</u>	<u>Number</u>
A	Austria	<u> </u>	IRL	Ireland	<u> </u>
B	Belgium	<u> 1 </u>	LT	Latvia	<u> </u>
BG	Bulgaria	<u> </u>	LV	Lithuania	<u> </u>
CH	Switzerland	<u> </u>	N	Norway	<u> </u>
CS	Czechoslovakia	<u> 24 </u>	NL	Netherlands	<u> </u>
D	Germany	<u> 3 </u>	P	Portugal	<u> </u>
DK	Denmark	<u> </u>	PL	Poland	<u> 1 </u>
E	Spain	<u> </u>	R	Rumania	<u> </u>
EE	Estonia	<u> 1 </u>	S	Sweden	<u> 2 </u>
F	France	<u> 3 </u>	SF	Finland	<u> </u>
GB	Great Britain	<u> 2 </u>	YU	Yugoslavia	<u> </u>
GR	Greece	<u> </u>	CIS	CIS	<u> </u>
H	Hungary	<u> </u>	-	Others	<u> 5 </u>
I	Italy	<u> 5 </u>			

Is there need of another colloquium on the same subject? Which year? 1995

Dynamic bifurcation

Please turn

It is my pleasure to give you a brief report about the Euromech Colloquium 306 devoted to Mechanics of contact impact. I think that we had a good response to the Call for papers which was widely distributed. As a result 47 participants from 12 countries took part. Enclosed you will find the list of participants.

The abstract of presented contributions is enclosed as well. The topic of presented contributions could roughly be divided into five groups. Contact of rigid bodies, classical Hertz contact problems, accompanying problems as stress wave propagation or crack initiation, experimental treatment of contact-impact problems and finally the computational treatment of contact-impact problems.

In my opinion the people solving the particular impact problems are living their independent scientific lives and do not communicate too much among themselves. Bringing all these people under one roof at the same time could be considered as a small achievements of the Colloquium and could promote closer social and scientific contacts in future.

During the preparation of the Colloquium we were contacted by the Editor of Applied Mechanics Review Journal with a proposal to prepare a survey paper describing our activities. As a result we have prepared three survey articles, namely

Jaeger, J.: History of Hertz Contact,
Zhong, Z. and Mackerle, J.: Computational treatment of contact impact. A review with bibliography,
Höschl, C., Okrouhlik, M., Cerv, J. and Benes, J.: Analytical, computational and experimental treatment of stress wave propagation problems.

The manuscripts have already been sent to the Editors.