

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

Euromech Colloquium No: 324
Title: 'The Combustion of Drops, Sprays and Aerosols'
Co-Chairmen: G. SEARBY
Place and country: MARSEILLES FRANCE
Dates: 25th - 27th July 1974

Finance

The conference fee 450^{FF} included Refreshments and book of papers
Funding: Association Universitaire de Mécanique : 4000^{FF}
 Université de Provence : 4000^{FF}
Accommodation (type and cost): Student's Residence 150^{FF}/night
Meals: 150^{FF} / day

Participation

Total number of participants: 27

Distribution of participants by country:

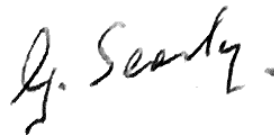
Code	Country	Number	Code	Country	Number
A	Austria	_____	IRL	Ireland	_____
B	Belgium	_____	LT	Latvia	_____
BG	Bulgaria	_____	LV	Lithuania	_____
CH	Switzerland	_____	N	Norway	_____
CS	Czechoslovakia	_____	NL	Netherlands	_____
D	Germany	3	P	Portugal	_____
DK	Denmark	_____	PL	Poland	_____
E	Spain	4	R	Rumania	_____
EE	Estonia	_____	S	Sweden	_____
F	France	15	SF	Finland	_____
GB	Great Britain	2	YU	Yugoslavia	_____
GR	Greece	_____	CIS	CIS	1
H	Hungary	_____	-	Others	2
I	Italy	_____			

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

Scientific Report

Euromech 324 brought together 27 scientists from 6 countries, mostly working in the fields of liquid fuel rocket propulsion and diesel internal combustion engines. The common interest was spray formation and two phase combustion. The quasi totality of the papers were co-signed by senior scientists of international reputation, but were presented by younger contributors, creating an informal and often enthusiastic atmosphere. The presentations were grouped by scientific theme in order to help promote interaction between scientists concerned with different industrial applications. This approach proved to be quite successful.

Amongst the scientific theme discussed were : the modelling and measurement of droplet distributions in sprays, the modelling and numerical simulation of the evaporation and combustion of individual supercritical droplets, the modelling and numerical simulation of the combustion of liquid sprays, the origin of acoustic instabilities in spray combustion and last, but not least, new developments in experimental techniques for the investigation of spray combustion.



Marseille 7th Sept. 1994

G. Searby