REPORT

EUROMECH 258

The Time-Dependent Behaviour of Ice

Hamburg, FRG August 27-30, '90

Ice is of scientific and of engineering interest in glaciology, in construction and in ice breaking. The aim of the Colloquium, to evaluate and to discuss the recent developments in the field of time-dependent behaviour of ice, has been fully achieved.

The Colloquium started with an Early Bird Reception on Monday, August 27. On Tuesday and Wednesday, August 28 and 29, 13 papers were presented and intensively discussed.

There was an 90-minutes visit of the 'Hydrodynamic and cavitation Tunnel' and in particular of the 'Ice Model Basin' of HSVA (Hamburgische Schiffbau-Versuchsanstalt); this was very much appreciated by the participants.

The main topics were - as can be taken from the final program -

- modelling of sea ice and of fresh-water ice; constitutive laws, creep, brittleness;
- ice-structure interaction, ice breaking;

- engineering application.

The colloquium was concluded on Thursday, August 30, by a visit to the 'Institute for Polar and Marine Research' (Alfred-Wegener-Institut für Polar- und Meeresforschung (AWI)) at Bremerhaven and to the drop tower at Bremen (Center of Applied Space Technology and Microgravity (ZARM), University of Bremen). This was important as High Tech data handling could be demonstrated.

The rather small number of participants (> 20) - a French specialist had to cancel his participation due to family reasons, three scientists from Soviet Union did not receive the final letter of invitation, ... - created on the other hand a kind of family atmosphere with the consequence of many personal discussions that have led to continuing contacts among the scientists.

Different from the specific conferences like POAC and others the uncorrelated modelling of sea ice and of fresh water ice has been laid open. It was agreed on a 'harmonizing procedure'.

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