

**Zeitschrift:** IABSE bulletin = Bulletin AIPC = IVBH Bulletin  
**Band:** 6 (1982)  
**Heft:** B-23: IABSE bulletin

**Vereinsnachrichten:** Ship collision with bridges and offshore structures, Copenhagen, Denmark, May 30 - June 2, 1983

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## 2. Ship Collision with Bridges and Offshore Structures Copenhagen, Denmark, May 30 – June 2, 1983

The IABSE Colloquium will be held from Monday, May 30 to Thursday, June 2, 1983, at the Technical University of Denmark, Lyngby, Denmark.

### Aim

Although the ship collision problem is more and more accepted as an important design parameter, there is still considerable uncertainty towards the attitude to take in these matters, i.e. design assumptions, risk levels etc. The aim of the Colloquium is to allow an efficient exchange of up to date information and points of view between bridge and offshore engineers, ship building engineers, navigational experts, specialists involved in risk assessments, owners and authorities, who have to decide risk level for bridge or offshore structures, and others.

### Technical programme

Each working session will comprise introductory lectures and oral presentation of selected papers, followed by discussion. Questions and discussion will be encouraged throughout the Colloquium.

The working sessions will deal with six themes:

Theme A:

Case stories of recent ship collision accidents

Theme B:

Navigational aspects

Theme C:

Evaluation of collision probabilities

Theme D:

Evaluation of consequences of collisions

Theme E:

Acceptance criteria – accepted risk levels

Theme F:

Design assumptions and influence on design

The programme will also include visits to Danish research laboratories for demonstration of ship collision model tests and ship navigation simulation methods.

### Introductory Report

The Introductory Report containing the following papers will be published in September 1982. It may be ordered at IABSE Secretariat.

Theme A:

– Accidents Involving Bridges (A. G. Frandsen, Denmark)

– Statistics on Collision Accidents Involving Offshore Structures (P. Laheld, Norway)

Theme B:

– Study of Marine Traffic Flows with Special

Reference to Fixed Offshore Structures (E. M. Goodwin, England)

- Offshore Structures and Navigation Risk Management (J. Puglisi, USA)
- Safety of Bridges and Offshore Structures. The Role of Simulation (J. S. Gardenier, USA)

Theme C:

- Evaluation of Collision Probabilities for Offshore Structures (M. J. Barratt, England)
- Ship Collision Risk Assessment for Bridges Using Probability Models (O. Damgaard Larsen, Denmark)

Theme D:

- Evaluation of Ship-Bridge Pier Impact and of Islands as Protection (V. Minorsky, USA)
- Modelling of Ship Collisions against Protected Structures (A. Hasle Nielsen et al., Denmark)
- Means of Reducing the Consequences of Ship Collision with Bridges and Offshore Structures (R. Saul and H. Svensson, Fed. Rep. of Germany)

Theme E:

- Acceptable Levels of Risk for Technological Undertakings (W. D. Rowe, USA)
- Risk – A Subjective Notion Differently Perceived by the Individual, in Society and in Engineering (J.-M. Planeix, France)

Theme F:

- Design Assumptions and Influence on Design of Offshore Structures (S. Fjeld, Norway)
- Design Assumptions and Influence on Design of Bridges (B. Højlund Rasmussen, Denmark)

### Call for papers

Participants wishing to submit a paper are requested to send their camera ready papers to the Chairman of the Scientific Committee not later than December 1, 1982, according to the information given in the "Preliminary Invitation and Call for Papers".

### Further information

Further information may be obtained from:  
IABSE Secretariat  
ETH-Hönggerberg  
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