

Scientific Report

For the report please see the program and the letter attached.

Yours sincerely

Franz Emmerling
F.A. Emmerling

Please use additional pages if needed and sign at the end.

Prof.Dr.E.L.Axelrad, Chairman of the Euromech 314
Prof.Dr.-Ing.F.A.Emmerling Co-Chairman of the Euromech 314
University of Bundeswehr München, LRT, Institut für Mechanik
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To European Mechanics' Council

Chairman:

Professor David G.Crighton
Dept. of Applied Mathematics
& Theoretical Physics
University of Cambridge
Silver Street, Cambridge CB3 9EW, UK

Secretary:

Professor Bengt Lundberg
Dept.of Mechanical Engng
Lulea Univ. of Technology
S-95187 Lulea, Sweden

Dear Professoor David G.Crighton,
Dear Professor Bengt Lundberg

14-17 Sept.1993, the Institute for Mechanics of the Univ. der BW
Munich carried out the European Mechanics Colloquium 314 - EFFEC-
TIVENESS OF SHELL-THEORY FORMULATIONS FOR NUMERICAL SOLUTIONS.

In its aims the EUROMECH 314 has constituted an extention of the
EUROMECH 165 carried out at the same Institute in 1983.

EUROMECH 314 has strived to clarify which formulation of the
general theory or (and) which of the specialized branches of the
shell theory is to be preferred for a solution of a specific
class of problems. In particular, it was discussed when and for
which problems the theory is preferably to be stated intrinsica-
lly and when, on the contrary, the resolving equations should be
stated in terms of displacements; for what problems only the
general theory, not one of its specialized branches, is
adequate.

A"round-table discussion" was organized after the presentations.
The basic problems mentioned above were also dealt with in the
opening address of the Colloquium and in some of the presenta-
tions. However, questions of this nature could not but need
further discussion. (One of the participants, Prof.Pietraskiewicz
of Poland, pleads strongly for just this continuation in his
letter of 20.09.93 to the Chairman of Euromech 314.)

With best regards

Sincerely yours

E.L. Axelrad E.L.Axelrad

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