Aim of the conference and workshop

Conference and workshop are primarily organised as the final events of the running EU project COCOMAT demonstrating its results. The scientific community and industry in general are invited to attend. Both events aim to promote discussion and exchange of information between scientists and engineers in the field of buckling, postbuckling and collapse behaviour of composite structures.

The **conference** aims at presenting scientific achievements from the COCOMAT project. In addition, papers with recent results on the same topic but from outside the project are as well accepted.

Within the **workshop** new fast design tools and improved commercial tools, developed within COCOMAT, are presented and demonstrated.

The present conference follows the 1st Int. Conference on Buckling and Postbuckling Behaviour of Composite Laminated Shell Structures which was held in Eilat, Israel, 1-2 March 2004. There the achievements of the COCOMAT forerunner project POSICOSS were highlighted.

Topics

New achievements in the following topics on buckling, postbuckling and collapse behaviour of composite laminated shell structures are presented:

- Experimental methods and results
- Degradation models
- Failure criteria
- Advanced finite element tools for certification
- Fast design tools
- Influence of imperfections
- Structural optimisation
- Design guidelines

All topics will focus on curved panels and shells (unstiffened and stiffened ones) under various states of loading.

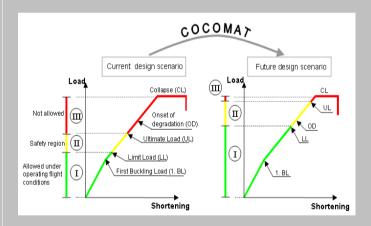
EU project COCOMAT

The running EU project COCOMAT (Improved MATerial Exploitation at Safe Design of COmposite Airframe Structures by Accurate Simulation of COllapse) is a Specific Targeted Research Project within the 6th Framework Programme. It started 2004 and will be finished in October 2008.

COCOMAT aims to exploit considerable reserves in the capacities of composite aircraft panels by accurate simulation of collapse. The main objective of COCOMAT is a future design scenario for composite curved stiffened panels which are understood as parts of real aircraft structures (cf. figure below).

The project results comprise an experimental data base, improved slow certification tools, fast design tools as well as design guidelines.

More details can be found at www.cocomat.de.



Current and future design scenario for stiffened CFRP panels

COCOMAT builds up on the finished EU project POSICOSS (*Improved POstbuckling SImulation for Design of Fibre COmposite Stiffened Fuselage Structures*) which developed fast procedures for buckling and postbuckling analysis of fibre composite stiffened panels of fuselage structures, created experimental data bases and derived design guidelines.



2nd Int. Conference on







with

COCOMAT¹ Workshop



Organiser:

DLR (German Aerospace Center), Institute of Composite Structures and Adaptive Systems, Braunschweig, Germany

Conference Place:

Technical University of Braunschweig, Pockelsstrasse, Braunschweig, Germany

www.cocomat.de

¹COCOMAT is a running EU project and stands for: Improved MATerial Exploitation at Safe Design of COmposite Airframe Structures by Accurate Simulation of COllapse



























Call for abstracts

Prospective authors are requested to submit an extended abstract of up to 4 pages (including figures) by 1 May 2008. The abstract should contain sections addressing the objective of the work presented, the methods employed, and conclusions. Abstracts must be submitted online at: www.cocomat.de.

Authors of accepted abstracts will be notified electronically by 1 June 2008.

Abstract details

- Submission of an abstract implies a firm commitment to present the paper at the conference.
- All speakers will be required to be registered participants of the conference.
- Accepted abstracts and presentations will be published as proceedings on a CD.
- Guidelines for the abstracts are available online.
- Selected presentations of high quality will be proposed for publication in a special issue of the Int. Journal of Structural Stability and Dynamics.

Key dates

4 May 2000	A b atmost acclemate at a selection
1 May 2008	Abstract submission deadline
1 June 2008	Notification of acceptance
1 July 2008	Early registration deadline
1 Aug. 2008	Hotel reservation deadline
3-5 Sep. 2008	Conference + workshop

Registration

Please register online at www.cocomat.de.

The registration fees are:

Early registration by 1 July 2008

- Regular rate:	250 €
- DGLR members	200 €
- Speakers, COCOMAT partners, students	150 €
Registration after 1 July 2008	

The registration fee contains full catering, the conference dinner, a DLR technical visiting tour and a CD with the conference proceedings.

Hotel reservation

A block of rooms at special rate for the conference participants has been reserved at 5 different hotels. You will find details to the hotels, a map with their location and accomodation booking form for the at www.cocomat.de.

These rooms are reserved until 1 August 2008.

Committees

Chairman

Dr Richard Degenhardt, DLR, Braunschweig, D E-mail: richard.degenhardt@dlr.de

Conference Secretariat / Local arrangements

E-mail: cocomat@dlr.de

Organisation Committee

Mrs Doris Ries, DLR, Braunschweig, D Mrs Ursula Schönyan, DLR, Braunschweig, D Mr Dirk Wilckens, DLR, Braunschweig, D

Technical and Scientific Committee Dr Hans-Josef von den Driesch, EC, Brussels, B Prof. Klaus Rohwer, DLR, Braunschweig, D. Dr Rolf Zimmermann, DLR, Braunschweig, D Dr Richard Degenhardt, DLR, Braunschweig, D Dr Jan Tessmer, DLR, Braunschweig, D Prof. Murray Scott, CRC-ACS, Melbourne, AUS Dr Rolf Jarlas, FOI, Stockholm, S Prof. Werner Wagner, UKA, Karlsruhe, D Prof. Chiara Bisagni, POLIMI, Milano, I Prof. Rolands Rikards, RTU, Riga, Latvia

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Dr Silvio Merazzi, SMR, Bienne, CH

This conference is supported by:

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COCOMAT consortium

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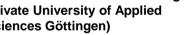


Deutsche Gesellschaft für Luft- und Raumfahrt Lilienthal-Oberth e.V. (German Society for Aeronautics and Astronautics)



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Private Fachhochschule Göttingen (Private University of Applied Sciences Göttingen)



www.pfh.de



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City of Braunschweig

www.braunschweig.de



Composite Technology Center Stade www.ctc-gmbh.com



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