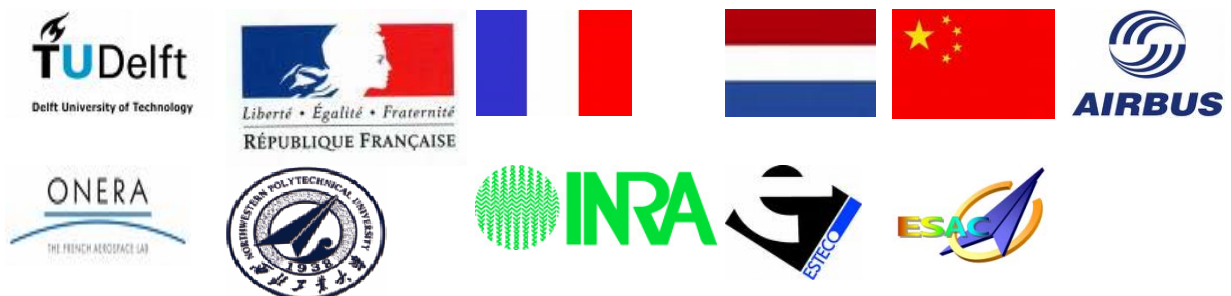




First Joint French –Dutch - Chinese Workshop on Composites Materials and Structures

*April 21 - 23, 2009, Delft University of Technology, Faculty of Aerospace
Engineering, Delft, The Netherlands*

With the participation from :



Acknowledgments :

The organizing committee would like to thank all the participants for joining the workshop and also we are grateful to the following organization for their support (ASMDO, TUDelft, Faculty of Aerospace engineering, France Embassy , Embassy of the People's Republic of China, ONERA, Northwestern Polytechnical University)



Theme of the Workshop

The workshop will discuss topics on composite structures and materials (including polymer matrix composites, metal matrix composites, ceramic matrix composites, and concrete matrix composites) that cover Design, Manufacturing, and Evaluation. These include computer aided design, practical design examples, and applications, new developments in manufacturing techniques, thick composites, new textile performs, acousto-ultrasonics, acoustic emission, and other evaluation techniques, etc. In addition, nano-scale materials/structures and ecomaterials are also interesting topics for the workshop.

Aims of the Workshop on Composites Materials and Structures

The Workshop on Composites Materials and Structures will be held in the Delft University of Technology, in the Faculty of Aerospace Engineering, Netherlands on April 21-23, 2009. The objectives of the workshop are to foster collaboration between scientists and engineers working in Composites Materials & Structures in China, France and Netherlands, and to provide a forum for the exchange of information and experience in Composites in these countries. The workshop will consist of technical presentations and may include exhibits.

Organizing committee In :

France :

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Workshop Secretary :

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Concept Program

	Tuesday 21 April	Wednesday 22 April	Thursday 23 April
09:00 - 09:30	Opening Session	Presentations (A5)	Presentations (A8)
09:30 - 10:00			
10:00 - 10:30	Presentations (A1)	Coffee Break	Coffee Break
10:30 - 11:00			
11:00 - 11:30	Coffee Break	Presentations (A6)	Presentations (A9)
11:30 - 12:00	Presentations (A2)		
12:00 - 12:30		Lunch	Lunch
12:30 - 13:00			
13:00 - 13:30			
13:30 - 14:00	Presentations (A3)	Presentations (A7)	Presentations (A10)
14:00 - 14:30			
14:30 - 15:00	Coffee Break	Coffee Break	Coffee Break
15:00 - 15:30			Presentations (A4)
15:30 - 16:00			
16:00 - 16:30	Closing Session	Closing Session	
16:30 - 17:00			

In the opening Session an introduction will be done by the :

Dr Jacco HOEKSTRA, Dean of the Faculty of Aerospace Engineering, Delft University of Technology.

Prof. Dr. Zafer GÜRDAL, Chair of the Aerospace Structures, Faculty of Aerospace Engineering, Delft University of Technology.

Prof. CHEN Yong, First Secretary & Head of Science and Technology Office, Embassy of the People's Republic of China.

Prof. Dr. Saïd MAMMAR Attaché for Scientific cooperation and university, French Embassy.

Dr. David BASSIR, President of the ASMDO.

Réf	PRESENTATIONS
A1	Aerospace structure at Delft Prof. Dr. Zafer Gürdal (TUDelft)
A1	The Advance of the Manufacturing Technologies at The Key Laboratory of Contemporary Design & Integrated Manufacturing Technology. Prof Dr. Zhang Dinghua (Northwestern Polytechnical University, Xian)
A2	Robust Modeling of composite materials in Aeronautic applications Dr. N. CARRERE (ONERA, Chatillon)
A2	Thermo-mechanical response of plain weave glass fiber reinforced epoxy laminates over a wide range of strain rates and temperatures Dr. Weiguo Guo (Northwestern Polytechnical University, School of Aviation, Xian)
A2	Toward deterministic understanding of the correlation between mechanical properties and structure of biopolymer based materials Dr. S. GUESSASMA (INRA)
A3	Failure Analysis of Composite Mechanically Fastened Joints and Study of Effects on Failure Strength Prof. Dr. Zhao mei-ying (Northwestern Polytechnical University, School of Aviation, Xian)
A3	Design and Manufacture of a Variable-Stiffness Composite Cylinder Ir. Agnes Blom (TUDelft)
A3	Optimal formulation and process of woven fabrics Prof. Dr. J. ZARKA (CADLM)
A4	Strength Design using Lamination Parameters including Notch Sensitivity Dr. Mostafa Abdalla (TUDelft)
A4	Integrated layout design of structures and its sub-systems Dr. ZHU Jihong (Northwestern Polytechnical University, Xian)
A5	Vibroacoustic and structural health monitoring issues in composites Prof. Dr. M. ICHCHOU (Ecole Central de Lyon)
A5	Micropolar Continuum Modeling and Stress Optimization of Periodic Lattice Solids Dr. Jun. Yan (Dalian University of Technology, Dalian)
A5	Compressive and tensile mechanical behavior of carbon/carbon composites at high strain rate Prof. Dr. Yulong Li (Northwestern Polytechnical University, Xian)
A6	Multidisciplinary design optimization in Airbus Dr. S. GRIHON (Airbus)
A6	A New Model for Predicting the Fatigue Strength of Composite Structures Christos Kassapoglou (TUDelft)
A7	Towards Material and structural virtual testing of laminates: micro and meso-modelling and associated computational challenges Prof. Dr. Olivier Allix (LMT-Cachan, France)
A7	Objective Function and Adjoint Sensitivities for Moving-Mask Lithography Prof. Dr. Fred van Keulen (TUDelft)
A7	Topology and generalized shape optimization Prof. Dr. P. DUYSINX (University of Liege, Belgium)
A8	Liquid crystal Thermosets for structural composites Mazhar Iqbal (TUDelft)
A8	Recent work on structural optimization Prof. Dr. WeiHong Zhang (Northwestern Polytechnical University, Xian)
A8	Ceramic Matrix Composites: a class of versatile and smart materials Prof. Dr. Jacques LAMON (University of Bordeaux)
A9	Aircraft and Rotorcraft Design at Delft University Prof. Dr. Michel van Tooren (TUDelft)
A9	Reliability-based optimization of a aircraft crossbeam Dr. Y. LEMMENS (NOESIS)
A10	Probabilistic Approaches to Structural Mechanics Prof. Dr. A. EL HAMI (INSA ROUEN)
A10	Non-Destructive Health monitoring of structures Pooria Pahlavan (TUDelft)
A11	Design analysis and multi-objective structural optimization of a sailing boat in composite material J. LANUSSE (EnginSoft)
A11	Optimum structure with homogeneous optimum cellular material for maximum fundamental frequency Dr. Bin NIU (Dalian University of Technology, Dalian)
A11	Microstructure modeling and prediction of effective elastic properties of multi-phase and multi-layer woven/braided composite Yingjie Xu (UTBM/NWPU)
A11	Multi-objective Optimization in Composites materials Dr. D. Bassir (UTBM/TUDelft)