
Seminar

Advanced Design Theories and Technology for
Complex Systems (4)

1. Knowledge-Based Design Environments: Software
Development

Nov. 6, 19.00pm, 2012

2. Next Generation Design Systems: Knowledge-Based
Multi-disciplinary Design Optimization

Nov. 8, 9.00am, 2012



Lecturer

Prof. Michel van Tooren Mr. Reinier van Dijk

Delft University of Technology

Sponsor

International Collaboration Innovation Team Project of Tsinghua University

Organizer

Institute of Design Engineering

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<http://adcp2012.com>

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Introduction to the lecturers



Prof. Michel van Tooren
Aerospace Faculty
Delft University of Technology



Mr. Reinier van Dijk
Aerospace Faculty
Delft University of Technology

Prof. Michel van Tooren obtained his PhD at Delft University on Composite Fuselage Design in 1998. After positions as researcher and assistant professor at the Faculty of Aerospace Engineering, he became full professor Systems Integration Aircraft in 2002. In 2010 he accepted a job in industry and is now Manager New Concept Development at Fokker Aerostructures BV. He combines this with a part-time appointment as professor Systems Integration Aircraft at the section Flight Performance and Propulsion of the Delft University of Technology. In addition he is member of the scientific board of the NLR (Netherlands Aerospace Laboratories), member of the Technical Committee Multi-disciplinary Design and Optimization, American Institute of Aeronautics and Astronautics.

Mr. Reinier van Dijk holds an M.Sc. degree in aerospace engineering. Has previous part-time work experience as knowledge engineer at Fokker Aerostructures, aerodynamicist at Lockheed Martin Aeronautics and researcher at the Dutch National Aerospace Laboratory. Currently holds a Ph.D. position at the department of Flight Performance and Propulsion, Delft University of Technology. Researches Knowledge-Based Engineering (KBE) and Simulation Workflow Management (SFWM) as means to automate routine design tasks typically found in the engineering industry in order to cut lead times, cost and enable more thorough explorations of design space. Particular research focus is given to the methodology and software tools to facilitate the KBE and SFWM software development processes. Active in three (former) FP7/FP6 European projects: iProd (ICT Technology for Model Based System Engineering), Smart Fixed Wing Aircraft (Clean Sky JTI) and PEGASUS (finished).

Seminar

Advanced Design Theories and Technology for Complex Systems (4)

Lecturers:

Prof. Michel van Tooren

Mr. Reinier van Dijk

Faculty of Aerospace, Delft University of Technology

Venue

Meeting room 4304, Precision Instrument & Mechanology Department,

Tsinghua University

Lecture 1: **Knowledge-Based Design Environments: Software Development**

Nov. 6, 19.00pm, 2012

Lecture 2: **Next Generation Design Systems: Knowledge-Based Multi-disciplinary Design Optimization**

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