

Rotor Dynamic Seminar

by



DELTA JS AG

from April 18th to April 20th 2012 in Zurich, Switzerland

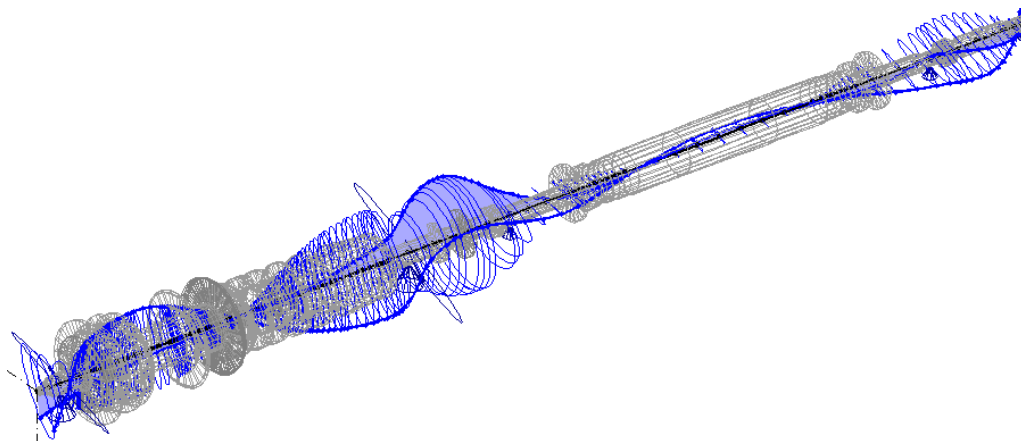
DELTA JS is a leading engineering and consulting firm for machine dynamics. Its proprietary, commercial software MADYN 2000 is widely used for industrial machinery to simulate rotor dynamics of complex rotor-gear-bearing systems with all types of bearings including fluid film bearings and active magnetic bearings.

The seminar is a summary of the vast experience of the DELTA JS engineering team with **industrial rotating machinery**. Practical relevance is ensured. Fundamental **rotor dynamic phenomena**, basic **design rules**, different types of **bearings** and their properties as well as **engineering and design specifications** are explained.

Attendees will be able to better anticipate potential **risks of rotating machinery** and to participate actively in the investigation of **vibration problems**. Thus the seminar is suited for rotating equipment specialists of machine end users and contractors as well as for design engineers, commissioning engineers, sales engineers and project managers of machine manufacturers and plant constructors.

For those, who are interested in learning more about the actual **rotor dynamic analysis**, an additional day is offered. During this day practical analyses with **MADYN 2000** will be demonstrated.

The course instructor is Dr. Joachim Schmied, who is the founder of DELTA JS. He earned his doctorate at the Technical University of Darmstadt's Institute for Machine Dynamics in Germany. Before founding DELTA JS he has worked for twelve years in the turbomachinery industry, nine years as a development manager. Dr. Joachim Schmied is a member of several scientific committees such as the "International Symposium on Magnetic Bearings" and the "International Federation for the Promotion of Mechanism and Machine Science (IFTToMM)".



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Contents of the Seminar (2 days):

- Basics of Rotor Dynamics
 - The Role of Rotor Dynamics in Machine Design
 - What exactly is a Resonance?
 - What exactly is Damping?
 - Vibrations in Rotor Systems: How do they arise?
- Rotor Bearing Design, Properties of Different Bearing Types
 - Some Essentials for the Rotor Bearing Design
 - Ball and Roller Bearings
 - Fluid Film Bearings
 - Active Magnetic Bearings
- Rotor Dynamic Engineering, Assessment of Analyses Results
 - Critical Speed Map
 - Lateral Eigenvalues and Campbell Diagram
 - Stability
 - Lateral Unbalance Response
 - Torsional Natural Modes
 - Potential Torsional Resonances
 - Transient Torsional Response
 - Assessment of Coupling Forces and Stresses
- Special Phenomena
 - Coupled Vibrations
 - The Hot Spot Phenomenon

After each block there will be time for discussions. All attendees will receive seminar documents in English.

Additional Day (optional): Rotor Dynamic Analysis with MADYN 2000

Fee and Payment

Seminar (2 days): CHF 1'800 including meals (2 lunches, 1 dinner) and refreshments.

Optional additional day: CHF 500 including lunch and refreshments.

Invoice will be issued upon registration.

Organisational Information

The Seminar will take place in the Hotel Senator located close to the offices of DELTA JS in the Technopark. A block of rooms will be reserved until April 12th to a special price of 190 CHF. Please contact the hotel directly for reservation (keyword rotor dynamic).

Hotel contact information: Hotel Senator
Heinrichstr. 254, CH 8005 Zurich
Tel.: ++41 44 448 1818
Fax: ++41 44 448 2585
www.senator.ch

Attendees are invited to join an evening event (dinner at a unique Zurich location) on April 18th.

Registration: Fax, mail or e-mail to DELTA JS AG

Deadline for binding registration is April 13th.

Name:	Mrs./Mr.		
Company:			
Department:			
Address:			
Phone:		Fax:	
E-mail:			

I would like to attend the MADYN 2000 session:

DELTA JS reserves the right to cancel the seminar in case too few people sign up at this date.