Monday 27th June 2011

Sunday 26th June 2011

19:00-21:00	**Pre-registration and welcome cocktail** at Espace Saint Martin

Monday 27th June 2011 Morning

	Auditorium
08:30-08:45	**Welcome Opening Ceremony - Michel Scheller, 3AF President**
08:45-09:30	**Keynote - Non linear Aeroelasticity of very flexible Aircraft** **Prof. Carlos E. S. Cesnik - University of Michigan, USA - Introduced by Dr Jean-Pierre Grisval - Onera, FRANCE**
09:30-10:00	**Coffee break**

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 1	Session 2	Session 3	Session 4	Session 5
	CFD/CSM Methods **Kumar Bathia, Boeing**	**ROM for aeroelasticity** **Ulf Ringertz, KTH**	**Experimental Methods in Structural Dynamics and Aeroelasticity** **Lorenz Tichy, DLR**	**Optimisation with stochastic approaches** **Fabrice Poirion, Onera**	**Adaptative Structure** **Hans Schweiger, Cassidium**
10:00-10:30	IFASD-2011-182 **Study of single mode panel flutter at low supersonic speeds** Vedeneev, V. Lomonosov Moscow State University, RUSSIAN FEDERATION	IFASD-2011-006 **Model updating of dynamically time linear reduced order models** Griffiths, L.[1]; Jones, D.[1]; Friswell, M.[2] [1]University of Bristol, UK; [2]Swansea University, UK	IFASD-2011-011 **Wing Box Non-Linear Structural Damping** Fellowes, A.[1]; Wilson, T.[1]; Kemble, G.[2]; Havill, C.[2]; Wright, J.[23] - [1]Airbus, UK; [2]Stirling Dynamics Ltd, UK; [3]University of Manchester, UK		IFASD-2011-021 **Composite chiral structures for morphing wing** Quaranta, G.; Airoldi, A.; Crespi, M.; Sala, G. Politecnico di Milano, ITALY
10:30-11:00	IFASD-2011-002 **Assessment of the Numerical Modeling of a Transonic Wing Aeroelastic Response** Fontenot, R.[1]; Hubbard, S.[2]; Brown, R.[1]; McFarland, D.[2]; Cizmas, P.[1]; Vakakis, A.[2]; Bergman, L.[2] [1]Texas A&M University, USA; [2]University of Illinois, USA	IFASD-2011-007 **POD analysis for aeroelastic systems in a neighborhood of a Hopf Bifurcation** Mastroddi, F.[1]; Eugeni, M.[1]; Dessi, D[2] [1]"La Sapienza" University of Rome, ITALY; [2]CNR, INSEAN, ITALY	IFASD-2011-012 **Development of Wing / Engine Component Non-linear Aeroelastic Demonstrator** Malecek, J.; Hlavaty, V.; Malinek, P.; Cecrdle, J. VZLU, CZECH REPUBLIC		IFASD-2011-022 **Static and Dynamic Aeroelastic Analysis of a Seamless Aeroelastic Wing Structure** Perera, M.; He, Y.; Guo, S. Cranfield University, UK
11:00-11:30	IFASD-2011-003 **A staggered method using a modal approach for Fluid-Structure Interaction Computation** Debrabandere, F.; Tartinville, B.; Hirsch, C. Numeca International, BELGIUM	IFASD-2011-008 **A Hybrid Finite-Volume-ROM Approach to Non-Linear Aerospace Fluid-Structure Interaction Modelling** Mowat, A.[1]; Malan, A.[2]; Van Zyl, L.[2]; Meyer, J.[1] [1]University of Pretoria, SOUTH AFRICA; [2]CSIR, SOUTH AFRICA	IFASD-2011-013 **Investigation of Forced Heave/Pitch Oscillations of a Supercritical Airfoil in Transonic Flow** Hartmann, A.; Klaas, M.; Schröder, W. Aachen University, GERMANY	IFASD-2011-017 **Stochastic Optimisation of Transonic Aeroelastic Structures** Marques, S.[1]; Badcock, K.[2] [1]Queen's University Belfast, UK [2]University of Liverpool, UK	IFASD-2011-023 **Aeroelastic Modelling and Analysis of a Wing with Morphing High Lift Devices** Di Matteo, N.; Guo, S.; Morishima, R. Cranfield University, UK
11:30-12:00	IFASD-2011-005 **A Novel Adaptive ALE Scheme for Accurate Simulations of Compressible Unsteady Fluid Dynamics** Forestieri, G.; Guardone, A.; Isola, D.; Marulli, F.; Quaranta, G. Politecnico di Milano, ITALY	IFASD-2011-185 **Reduced Order modeling for the nonlinear Geometric Response of a some Curved Structures** Chang, Y.W.[1]; Wang,X.Q.[1]; Capiez-Lernout, E.[2]; Mignolet, M.[1]; Soize, C.[2] - [1]Arizona State University, USA [2]Université Paris-Est, FRANCE	IFASD-2011-014 **Interactive Boundary Layer Calculation of Separated Flows around 2D Airfoils** Rothkegel, J.; Dimitriadis, G. University of Liege, BELGIUM	IFASD-2011-018 **Adaptive Approaches for Uncertainty Quantification of Airfoil LCO** Chassaing, J.-C.; Lucor, D. UPMC-CNRS, FRANCE	IFASD-2011-024 **Modeling and Control of Piezoaeroelastic Energy Harvesters** Abdelkefi, A.; Nayfeh, A.; Hajj, M. Virginia Tech, USA
12:00-12:30		IFASD-2011-010 **Research on Reduced Order Modeling for Aeroelastic Analysis using Artificial Neural Network** Tsuyuki, Y[1]; Tamayama, M[2]; Toda, S[1]; Asakawa, M[1] [1]Waseda Univ., JAPAN; [2]JAXA, JAPAN	IFASD-2011-015 **Experimental Results of the Unsteady Pressure Distribution at Flutter in Transonic Flow** Saitoh, K.; Tamayama, M.; Yoshimoto, N. JAXA, JAPAN	IFASD-2011-019 **Aeroelastic Optimisation using Evolutionary Methods** Georgiou, G.[1]; Vio, G.[2]; Cooper, J.[1] [1]University of Liverpool, UK; [2]University of Sydney, AUSTRALIA	IFASD-2011-025 **Aeroelastic Behaviour of a Novel Morphing Wing using Shape Memory Alloys** Sabri, F.[1]; Meguid, S.[1]; Lakis, A.[2]; Tan, K.[3] [1]University of Toronto, CANADA; [2]Ecole Polytechnique Montréal, CANADA; [3]DSO, SINGAPORE
12:30-14:00	**Lunch**				

Monday 27th June 2011 Afternoon

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 6	Session 7	Session 8	Session 9	Session 10
	Flutter I Eric Garrigues, Dassault-Aviation	**Aerodynamic ROM for aeroelasticity** Gautam SenGupta, Boeing	**Flutter testing I** Anders Karlsson, Saab	**Gust Load 1** Jos Meijer, Atlantis-it	**Active and Passive Control** Roger Ohayon, CNAM
14:00-14:30	IFASD-2011-026 **A Computational Study of the Effects of Fuel Slosh on Flutter** Chiu, E.[1]; Farhat, C.[1]; Schotté, J.S.[2]; Ohayon, R.[3] [1]Stanford University, USA; [2]ONERA, FRANCE; [3]CNAM, FRANCE	IFASD-2011-204 **F22 Randomdec Application** Layton D., Anderson W., Piette D., Babish J. Lockheed Martin, USA **(Not available for USB Key Proceedings)**	IFASD-2011-045 **Operational Modal Analysis for in-line flutter assessment during wind tunnel testing** Peeters, B.[1]; Karkle, P.[2]; Pronin, M.[2]; Van der Vorst, R.[1] [1]LMS International, BELGIUM [2]TsAGI, RUSSIAN FEDERATION	IFASD-2011-047 **Robust Manoeuvring and Gust Alleviation of Very Flexible Aircraft using Novel Control Effectors** Cook, R.[1]; Palacios, R.[1]; Goulart, P.[2]; Roberts, I.[3] [1]Imperial College, UK; [2]ETH Zurich, SWITZERLAND; [3]Aerotex, UK	IFASD-2011-054 **Aeroelastic Stability Augmentation by the Flight Control System on Heavy Loaded Fighter Aircraft** Broux, G.; Meyer, C.; Cantinaud, O.; Goerig, L.; Garrigues, E. Dassault Aviation, FRANCE
14:30-15:00	IFASD-2011-205 **Time Domain Linear and Nonlinear FSI Simulation of the AGARD 445.6 Wing using MD Nastran's OpenFSI™ Unsteady Vortex Lattice Method** Di Vincenzo, F.; Linari, M.;Varano, G. MSC Software, ITALY	IFASD-2011-033 **Reduced-Order Dynamic Stall Modeling with Swept Flow Effects Using a Surrogate-Based Recurrence Framework** Glaz, B.[1]; Liu, L.[2]; Friedmann, P.[2]; Cajigas, J.[3]; Bain, J.[3]; Sankar, L.[3] - [1]AFRL, USA; [2]University of Michigan, USA; [3]Georgia Institute of Technology, USA	IFASD-2011-041 **Short Duration Excitation Signals for Flutter Testing** Vacher, P.; Bucharles, A.; Jacquier, B. ONERA, FRANCE	IFASD-2011-048 **Efficient Worst Case "1 – Cosine" Gust Loads Prediction** Khodaparast, H.[1]; Georgiou, G.[1];Cooper, J.[1]; Riccobene,L.[2]; Ricci, S.[2]; Vio, G.[3]; Denner, P.[4] - [1]University of Liverpool, UK; [2]Politecnico di Milano, ITALY; [3]University of Sydney, AUSTRALIA; [4]Airbus Operations Ltd, UK	IFASD-2011-055 **Real-Time Determination of Aerodynamic Coefficients for Flight Control Applications** Mangalam, A.[1]; Flick, P.[2]; Brenner, M.[3] [1]Tao of Systems Integration, Inc., USA; [2]AFRL, USA; [3]NASA, USA
15:00-15:30	IFASD-2011-028 **Updating Computational Aeroelastic Models using Flight Flutter Test Data** Timme, S.; Badcock, K. J. University of Liverpool, UK	IFASD-2011-035 **Assessment of strategies for Interpolating POD Based Reduced Order Model and Application to Aeroelasticity** Vetrano, F.[1,3]; Le Garrec, C.[1]; Mortchelewicz, G.D.[2]; Ohayon, R.[3] - [1]Airbus, FRANCE; [2]ONERA, FRANCE; [3]CNAM, FRANCE	IFASD-2011-042 **Recent developments in modal analysis and its application to flight flutter testing** De Troyer, T.[1,2]; Runacres, M.[1]; Devriendt, C.[2]; Guillaume, P.[2] [1]Erasmushogeschool Brussel, BELGIUM; [2]Vrije Universiteit Brussel, BELGIUM	IFASD-2011-049 **Gust Loads Assessment: A Multi-Fidelity Approach** Cavagna, L.; Travaglini, L.; Ricci, S. Politecnico di Milano, ITALY	IFASD-2011-057 **On Using the Receptance Method for Active Aeroelastic Control** Cooper, J.[1]; Mottershead, J.[1]; Prandina, M.[2]; Singh, K.[2]; McDonough, L.[2]; Chiozzini, A.[3] [1]University of Liverpool, UK; [2]Miami University, USA; [3]Politecnico di Milano, ITALY
15:30-16:00	IFASD-2011-118 **Nonlinear Flutter Analysis by Application of a Harmonic Balance and a Continuation Method** Potkanski, W. Institute of Aviation, POLAND	IFASD-2011-036 **A ROM based flutter prediction process and its validation with a new reference model** Voß, R.; Tichy, L.; Thormann, R. DLR, GERMANY	IFASD-2011-043 **Experimental validation of a new frequency-domain flutter speed prediction algorithm using a simplified linear aeroelastic model** Van de Walle, M.[1]; De Troyer, T.[2]; Schoukens, J.[1]; Vanlanduit, S.[1] - [1]Vrije Universiteit Brussel, BELGIUM; [2]Erasmushogeschool Brussel, BELGIUM	IFASD-2011-050 **Dynamic Aeroelastic Prediction for Geometrically Nonlinear Aircraft** Harmin, Y.; Cooper, J. University of Liverpool, UK	IFASD-2011-058 **Flutter control during wind tunnel tests in transonic conditions** Geeraert, A.; Le Bihan, D. ONERA, FRANCE
16:00-16:30	**Coffee break**				
16:30-17:00	IFASD-2011-030 **Flutter Boundary Prediction Based on System Stability Criterion in Discrete-Time Domain: An Overview** Matsuzaki, Y. Nagoya University, JAPAN	IFASD-2011-037 **Reduced Order Modelling of Nonlinear, Transient Aerodynamics within an Aeroelastic Coupling-Scheme in the Time Domain** Lindhorst, K.; Haupt, M.C.; Horst, P. TU Braunschweig, GERMANY	IFASD-2011-044 **Autoregressive modeling, frequency and damping estimation and forecasting of damping using flight flutter test data** UPV, S.[1]; Venkatraman, K.[2]; Deodhare, G.[1] [1]Aeronautical Development Agency, INDIA; [2]Indian Institute of Science, INDIA	IFASD-2011-051 **Gust Response: A Validation Experiment and Preliminary Numerical Simulations** Mai, H.; Neumann, J.; Hennings, H. DLR, GERMANY	IFASD-2011-059 **Polyhedral Lyapunov functions for aeroelastic oscillations suppression** Demenkov, M. Institute of Control Sciences, Russian Academy of Sciences, RUSSIAN FEDERATION
17:00-17:30	IFASD-2011-031 **Protection from flight aeroelastic vibrations in high-maneuverable flight vehicle** Smyslov, V.[1]; Bykov, A.[2]; Volkov, V.[2] [1]TsAGI, RUSSIAN FEDERATION [2]Vympel Design Bureau JSC, RUSSIAN FEDERATION	IFASD-2011-038 **Stabilisation of Reduced Order Models via Restarting** Wales, C; Gaitonde, A.; Jones, D. University of Bristol, UK	IFASD-2011-040 **Unsteady Aerodynamic Model Tuning for Precise Flutter Prediction** Pak, C.-g. NASA, USA	IFASD-2011-052 **An Integrated Loads Analysis Model including Unsteady Aerodynamic Effects for Position and Attitude dependent Gust Fields** Kier, T. - DLR, GERMANY	IFASD-2011-060 **Unsteady CFD/CSD analysis of Self-Activating Aerodynamic Devices for Stall Alleviation** Quaranta, G.[1]; Gilbertini, G.[1]; Masarati, P[1]; Zanotti, A.[1]; Sitaraman, J[2] - [1]Politecnico di Milano, ITALY; [2]University of Wyoming, USA
17:30-18:00	IFASD-2011-032 **Flutter Analysis of Aircraft Wing in Climb Phase** Fazelzadeh, S.A.[1]; Mazidi, A.[2]; Kazemi-lari, M.A.[1] [1]Shiraz University, IRAN; [2]Yazd University, IRAN	IFASD-2011-039 **Efficient CFD-Based Unsteady Aerodynamics Analysis** Fleischer, D.; Förster, M.; Breitsamter, C. TU München, GERMANY	IFASD-2011-046 **Application of Discrete-Time Flutter Prediction Method to a Three-Mode System** Torii, H. Meijo University, JAPAN	IFASD-2011-053 **Simulation of airfoil gust response using prescribed velocities** Wales, C.; Jones, D.; Gaitonde, A. University of Bristol, UK	IFASD-2011-097 **A Viscous "Geometric" Damping Model that Yields Frequency-Insensitive Modal Damping for Flexural Structures** Lesieutre, G. The Pennsylvania State University, USA
19:00-21:30	**30th IFASD Anniversary Cocktail at Eiffel Tower**				

Tuesday 28th June 2011

Tuesday 28th June 2011 Morning

Auditorium

08:15-09:00 — **Keynote - Paradigmatic Experiments For Flow Induced Vibrations**
Dr. Günter Schewe - DLR, Germany - Introduced by Prof. Lorenz Tichy - DLR, Germany

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 11	Session 12	Session 13	Session 14	Session 15
	Unsteady Aerodynamics 1 Philippe Girodroux, Onera	**Aeroelastic analysis with uncertainties** Jonathan Cooper, Univ. Liverpool	**ASE methods** Brian Caldwell, BAE	**Jet Engine 1** Hans Martensson, Volvo	**Helicopter and Tilt Rotor** Peretz Friedmann, Univ. Michigan
09:00-09:30	IFASD-2011-064 **Transonic Unsteady Aerodynamics in the Vicinity of Shock-Buffet Instability** Iovnovich, M.; Raveh, D. Technion - IIT, ISRAEL	IFASD-2011-009 **Effects and modeling of geometry uncertainty on the transonic behavior of a simple wing** Avalos, J.[1]; Schmitt, J.[1,2]; Ritz, E.[3]; Mignolet, M.[1]; Chen, P.C.[3] [1]Arizona State University, USA; [2]Ecole Centrale Paris, FRANCE; [3]ZONA Technology, USA	IFASD-2011-073 **Increased-Order Modeling Framework for Nonlinear Aeroservoelastic Analysis** Karpel, M. Technion, ISRAEL	IFASD-2011-079 **Aeroelastic capabilities of the elsA solver for rotating machines applications** Dugeai, A.; Mauffrey, Y.; Sicot, F. ONERA, FRANCE	IFASD-2011-085 **Aeroservoelastic Investigation of Rotorcraft-Pilot Coupling (RPC) by Coupled BEM/Multibody Analysis** Serafini, J.[1]; Gennaretti, M.[1]; Masarati, P.[2]; Quaranta, G.[2] [1]Politecnico di Milano, ITALY; [2]Universita Roma Tre, ITALY
09:30-10:00	IFASD-2011-062 **High-Fidelity CFD Simulation of a Wind Tunnel Model Using Model Deformation Data** Yasue, K.[1]; Kuchi-Ishi, S.[1]; Hashimoto, A.[1]; Murakami, K.[1]; Kato, H.[1]; Nakakita, K.[1]; Hishida, M.[2] [1]JAXA, JAPAN; [2]Ryoyu Systems, JAPAN	IFASD-2011-067 **Effects of Probabilistic Aeroelastic Uncertainties on Flutter Prediction** Bansal, P[1]; Pitt, D[2]; Gurtowski, N[2] [1]Boeing Research & Technology - India, INDIA [2]The Boeing Company, USA	IFASD-2011-074 **Consistent structural linearisation in flexible-body dynamics with large rigid-body motion** Hesse, H.; Palacios, R. Imperial College London, UK	IFASD-2011-080 **Numerical flutter analysis of turbomachinery bladings based on time-linearized, time-spectral and time-accurate simulations** May, M.[1]; Mauffrey, Y.[2]; Sicot, F.[2] [1]DLR, GERMANY; [2]ONERA, FRANCE	IFASD-2011-196 **Shape Control and Vibration Analysis of a Beam with Piezoelectric Patches** Tan, H. Tugba; Kaya, Metin O. Istanbul Technical University, TURKEY
10:00-10:30	**Coffee break**				
10:30-11:00	IFASD-2011-061 **Industrial use of CFD for loads and aero-servo-elastic stability computations at Dassault Aviation** Revalor, Y.; Daumas, L.; Forestier, N. Dassault Aviation, FRANCE		IFASD-2011-075 **System and Method for Compensating Structural Vibrations of an Aircraft caused by outside Disturbances** Luber, W.; Becker, J. CASSIDIAN, GERMANY	IFASD-2011-081 **Vibration Reduction For Turbomachinery Bladed Disks Under Changing Excitation Using Piezoelectric Materials** Kauffman, J.; Lesieutre, G. The Pennsylvania State University, USA	IFASD-2011-087 **A Comprehensive Survey of Individual Blade Control Emphasizing Recent Implementations** Kessler, C.[1]; Friedmann, Peretz P.[2] [1]DLR, GERMANY; [2]University of Michigan, USA
11:00-11:30	IFASD-2011-065 **Development of Aerodynamic Influence Coefficients based on CFD Codes for Aeroelastic Applications** Vidy, C.[1]; Iatrou, M.[1]; Weishäupl, C.[1]; Fleischer, D.[2]; Förster, M.[2]; Breitsamter, C.[2] [1]Cassidian, GERMANY; [2]TU München, GERMANY	IFASD-2011-069 **Application Of Bayesian Inference To The Flutter Margin Method - New Developments** Khalil, M.[1]; Poirel, D.[2]; Sarkar, A.[1] [1]Carleton University, CANADA; [2]Royal Military College of CANADA, CANADA	IFASD-2011-076 **Active Control for Coupled Unsteady Aeroelastic Models** McDonough, L.; Singh, K. Miami University, USA	IFASD-2011-082 **Tip timing spectral estimation method for aeroelastic vibrations of turbomachinery blades** Vercoutter, A.[1]; Berthillier, M.[1]; Talon, A.[2]; Burgardt, B.[2]; Lardies, J.[1] [1]Institut FEMTO-ST, FRANCE; [2]TURBOMECA, FRANCE	IFASD-2011-088 **Integrated Flight Mechanics and Aeroelastic Tiltrotor Modeling and Control Using Multibody Simulation** Mattaboni, M.[1,2]; Masarati, P.[1]; Muscarello, V.[1]; Quaranta, G.[1]; Mantegazza, P.[1] [1]Politecnico di Milano, ITALY; [2]AgustaWestland, ITALY
11:30-12:00	IFASD-2011-184 **Unsteady Aerodynamics of Lifting Body Using Combined Boundary Element and Vortex Particle Method** Djojodihardjo, H Universiti Putra Malaysia, MALAYSIA	IFASD-2011-071 **Reducing uncertainty in aeroelastic flutter boundaries using experimental data** Dwight, R.[1]; Bijl, H.[1]; Marques, S.[2]; Badcock, K.[3]; Timme, S.[3] [1]TU Delft, NETHERLANDS; [2]Queen's University Belfast, UK [3]University of Liverpool, UK	IFASD-2011-077 **Analysis of the aeroelastic stability with freeplay in a control surface by integral quadratic constraints approach** Demourant, F.[1]; Vo-Hoang, T-P.[2]; Pavie, A.[2] [1]ONERA, FRANCE; [2]Airbus, FRANCE	IFASD-2011-083 **Inter-Blade Phase Angle Parametrization to Numerically Predict Flutter in Turbomachinery** Lolo, W.[1]; Philit, M.[1]; Aubert, S.[2]; Thouverez, F.[1]; Ferrand, P.[1] [1]ECL, FRANCE; [2]Fluorem, France **(Not available for USB Key Proceedings)**	IFASD-2011-089 **Vibratory Analysis of an Innovative Civil Tiltrotor** Gennaretti, M.[1]; Molica Colella, M.[1]; Bernardini, G.[1]; Monteggia, C.[2]; Fosco, E.[2]; Ferro, P.[2] [1]University Roma Tre, ITALY; [2]AgustaWestland, ITALY
12:00-12:30		IFASD-2011-072 **Margins in aeroelasticity and methods of their determination – state and tendencies** Karkle, P.; Paryshev, S. TsAGI, RUSSIAN FEDERATION	IFASD-2011-078 **Data Driven Model Development for the SuperSonic SemiSpan Transport (S4T)** Kukreja, S. Nasa, USA	IFASD-2011-084 **Numerical prediction of the aeroelastic damping using multi-modal dynamically coupled simulations on a 360° fan configuration** Placzek, A.; Dugeai, A. - Onera, FRANCE	
12:30-14:00	**Lunch**				

Tuesday 28th June 2011 Afternoon

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 16	**Session 17**	**Session 18**	**Session 19**	**Session 20**
	Flutter II & Structural Dynamics Model Identification **Bernd Schulze, Airbus**	**Aeroelastic optimisation 1** **Ray Kolonay, AFRL**	**High Reynolds number test and correlation (Hirenasd Project)** **Boyd Perry, Nasa**	**Gust Load II & LCO** **Sergio Ricci, Polimi**	**T-Tail & UAV** **Thomas Wilson, Airbus**
14:00-14:30	IFASD-2011-091 **Unsteady Aerodynamics and Flutter Near Mach 1: Aerodynamic and Stability Reversal Phenomena** Bendiksen, O. - UCLA, USA **(Not available for USB Key Proceedings)**	IFASD-2011-098 **Topology, Shape, and Sizing Optimization of Aircraft Lifting Surfaces Using a Cellular Division Method** Kolonay, R.[1]; Kobayashi, M.[2] [1]USAF, USA; [2]University of Hawaii, USA	IFASD-2011-105 **Aero-Structural Wind Tunnel Experiments with Elastic Wing Models at High Reynolds Number (HIRENASD - ASDMAD)** Ballmann, J.; Boucke, A.; Chen, B.-H.; Reimer, L.; Dafnis, A.; Büsing, S.; Buxel, C. Aachen University, GERMANY	IFASD-2011-112 **Transonic response to a gust** Dequand, S.; Liauzun, C.; Girodroux-Lavigne, Ph.; Lepage, A. ONERA, FRANCE	IFASD-2011-119 **Aeroelastic Characteristics of T-tail Configurations** Martinez, P.[1]; Garcia-Fogeda, P.[2]; Claverias, S.[1]; Arevalo, F.[1]; Climent, H.[1] [1]Airbus Military, SPAIN; [2]ETSI Aeronauticos, SPAIN
14:30-15:00	IFASD-2011-092 **Modal-Based Aerodynamic Influence Coefficients Calculated From High-Fidality CFD Methods for Aeroelastic Analyses** Gratton, P.[1]; Pierre, C.[1]; Zuppel, E.[2]; Barrio, S.[2]; Rathe, A.[2] [1]McGill University, CANADA; [2]Bombardier Aerospace, CANADA	IFASD-2011-099 **Analytical Sensitivities of Aerodynamic and Structural Constraints for Aeroelastic Structural Optimization using Higher Order Panel Methods- HISSS** Singh, G.[1]; Fornasier, L.[2]; Scheider, G.[3]; Zotemantel, R.[3]; Daoud, F.[3] [1]Infaeronikm GERMANY; [2]EADS, GERMANY; [3]Cassidian, GERMANY	IFASD-2011-106 **Aeroelastic windtunnel experiments under cryogenic conditions employing a flexible wing including a winglet with in-situ active control surface** Buxel, C.; Dafnis, A.; Reimerdes, H.-G. Aachen University, GERMANY **(Not available for USB Key Proceedings)**	IFASD-2011-113 **Dynamic Gust Loads with Nonlinear Aerodynamic Corrections** Karpel, M.[1]; Raveh, D.[1]; Shousterman, A.[2]; Reyes, M.[3]; Climent, H.[3] [1]Faculty of Aerospace Engineering, ISRAEL; [2]Israeli CFD Center, ISRAEL; [3]Airbus Military, SPAIN	IFASD-2011-122 **A framework for T-tail flutter analysis** van Zyl, L CSIR, SOUTH AFRICA
15:00-15:30	IFASD-2011-093 **Approximate Analytical Solutions of Nonlinear Flutter of Aircraft Wings** Durmaz, S.; Kerki, T.; Kaya, M.O. Istanbul Technical University, TURKEY	IFASD-2011-191 **An Advanced Unified Aeroelastic Formulation based on 1D Higher-Order Finite Elements** Petrolo, M.[1]; Carrera, E.[1]; Demasi, L.[2] [1]Politecnico di Torino, ITALY; [2]San Diego State University, USA	IFASD-2011-108 **Preliminary Computational Analysis of the HIRENASD Configuration in Preparation for the Aeroelastic Prediction Workshop** Chwalowski, P.; Florance, J.; Heeg, J.; Wieseman, C.; Perry, B. NASA, USA	IFASD-2011-114 **Limited Evaluation of AIM-9 Control Surface Effects on F-16 LCO Characteristics** Massett, A.[1]; Groult, G.[2]; Ungerman, R.[1]; Honabarger, J.[1]; Salk, J.[1]; De Paolis, P.[3], Jorris, T.[1] [1]USAF, USA; [2]Istres Flight Test Center [3]Italian Air Force (ItAF) Operational Test Center (OTC)	IFASD-2011-121 **The T-Tail Flutter Mechanism Revisited** Suciu, E.; Stathopoulos, N.; Dickinson, M.; Glaser, J. Bombardier Aerospace, CANADA
15:30-16:00	IFASD-2011-094 **Aeroelastic Analysis of a Medium-Altitude Long-Endurance Aircraft with High-Aspect Ratio Wings** Laxman, Vaitla; Chung, Chan Hoon; Yoon, Nam Kyung; Shin, Sang Joon Seoul National University, REPUBLIC OF KOREA	IFASD-2011-102 **Aeroelasticity aspects in multidisciplinary design of high aspect ratio wing** Kuzmina, S.; Ishmuratov, F.; Zichenkov, M.; Chedrik, V. TsAGI, RUSSIAN FEDERATION	IFASD-2011-109 **Assesment of the ONERA/DLR numerical Aeroelastics Prediction Capabilities on the Hirenasd Configuration** Hassan, D.[1]; Ritter, M.[2] [1]ONERA, FRANCE; [2]DLR, GERMANY	IFASD-2011-190 **On-Line Flutter Prediction for Flight/Wind Tunnel Flutter Test** Zeng, J.[1]; Kukreja, S.[2] [1]ZONA Technology INC, USA; [2]NASA, USA	IFASD-2011-120 **Experimental and numerical investigation of freeplay on a T-Tail** Fichera, S.; Quaranta, G.; Ricci, S. Politecnico di Milano, ITALY
16:00-16:30	**Coffee break**				
16:30-17:00	IFASD-2011-197 **On the influence of parametric excitation at the critical speed of aircraft** Mazutsky, A. Yu. SibNIA, RUSSIAN FEDERATION	IFASD-2011-103 **Multidisciplinary Optimization of Aircraft Structures Subject to Dynamic Aeroelastic Loads, Including a Linear Load Alleviation System** Petersson, Ö; Baier, H TU München, GERMANY	IFASD-2011-110 **Plans for an Aeroelastic Prediction Workshop** Heeg, J.[1]; Ballmann, J.[2]; Bhatia, K.[3]; Blades, E.[4]; Boucke, A.[2]; Chwalowski, P.[1]; Dietz, G.[5]; Dowell, E.[6]; Florance, J.[1]; Hansen, T.[7]; Mani, M.[8]; Mavriplis, D.[9]; Perry, B.[1]; Ritter, M.[10]; Schuster, D.[1]; Smith, M.[11]; Taylor, P.[12]; Whiting, B.[8]; Wieseman, C.[1] [1]NASA, USA; [2]Aachen University, GERMANY; [3]Boeing Commercial Aircraft, USA; [4]ATA Engineering, Inc., USA; [5]ETW, GERMANY; [6]Duke University, USA; [7]ANSYS, GERMANY; [8]Boeing Research & Technology, USA; [9]University of Wyoming, USA; [10]DLR, GERMANY; [11]Georgia Institute of Technology, USA; [12]Gulfstream Aerospace, USA	IFASD-2011-116 **Prediction of Limit Cycle Oscillation using Nonlinear Normal Modes: Galerkin and Collocation Solutions** Emory, C.[1]; Patil, M.[2] [1]USAF, USA; [2]Virginia Tech, USA	IFASD-2011-123 **Model updating of an UAV aeroelastic system based on ground and in-flight test data** Mastroddi, F; Schiavoni, E.; Balis Crema, L.; Coppotelli, G. University of Rome "La Sapienza", ITALY
17:00-17:30	IFASD-2011-096 **Model updating using uncertain experimental modal data** Govers, Y.[1]; Link, M.[2] [1]DLR, GERMANY; [2]University of Kassel, GERMANY	IFASD-2011-104 **Robust Aeroelastic Analysis and Validation of a Stored Wing** Chung, C.H; Shin, S.J.; Kim, T. Seoul National University, REPUBLIC OF KOREA	IFASD-2011-111 **Aeroelastic Workshop** Synthesis	IFASD-2011-117 **Unsteady Aerodynamic Modeling for Control Surface LCO Simulation using Computational Fluid Dynamics and Reduced-Order Models** Morino, H.[1]; Yamaguchi, H.[1]; Nakai, K.[2]; Shimoyama, K.[2]; Obayashi, S.[2] [1]Mitsubishi Aircraft Corporation, JAPAN; [2]Tohoku University, JAPAN	
19:45-23:15	**Conference Dinner - Cruise on the Seine**				

Wednesday 29th June

Wednesday 29th June 2011 Morning

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 21	**Session 22**	**Session 23**	**Session 24**	**Session 25**
	Unsteady Aerodynamics 2 **Alain Dugeai, Onera**	**Flutter Testing II & Structural System Identification** **Alexis Laporte, Airbus**	**Dynamic Loads 1** **Hector Climent, Airbus Military**	**ASE Applications & Active Controls** **Martin Leijonhufvud, SAAB**	**Flapping wing and special applications** **Greg Dimitriadis, Université de Liège**
08:30-09:00	IFASD-2011-195 **Pulse input sizing for constructing reduced order models of the Euler equations** Griffiths, L.[1]; Jones, D.[1]; Friswell, M.[2] [1]University of Bristol, UK; [2]Swansea University, UK	IFASD-2011-132 **Solar Impulse – Ground Vibration Testing and Finite Element Model Validation of a Lightweight Aircraft** Boeswald, M.[1]; Vollan, A.[2]; Govers, Y.[1]; Frei, P.[3] [1]DLR, GERMANY; [2]AeroFEM, SWITZERLAND; [3]Solar Impulse SA, SWITZERLAND	IFASD-2011-138 **Unsteady loads modelling due to deployed spoiler** Van Muijden, J.; Prananta, B.B. NLR, NETHERLANDS	IFASD-2011-144 **Robust turbulence load alleviation** Jansson, N.; Eller, D. KTH, SWEDEN	IFASD-2011-150 **Global Optimization of Flapping Kinematics for Micro Air Vehicles** Ghommem, M.[1]; Hajj, M.[1]; Mook,D[1]; Stanford, B.[2]; Beran, P.[2], Snyder, R.[2]; Watson, L.[3] [1]Virginia Tech, USA; [2]AFRL, USA; [3]Virginia Tech, USA
09:00-09:30	IFASD-2011-127 **A discrete-time state-space model with wake interference for stability analysis of flexible aircraft** Murua, J.; Palacios, R.; Graham, J.M. Imperial College London, UK	IFASD-2011-133 **Concept and design of a modern on-board excitation system for flight and ground vibration testing** Gomes da Silva, D.; Piazza, A; Padovese, G.; Nicoletti, G. Embraer, BRAZIL	IFASD-2011-139 **Aircraft dynamic loads in flight and landing - comparison of calculation and experiment data** Kuznetsov, O.; Leontieva, R. TsAGI, RUSSIAN FEDERATION	IFASD-2011-145 **The Design of Robust Controller using LMI-Based Mixed-Objective Optimization for Aircraft with High Aspect Ratio Flexible Wing** Oh, E.M.[1]; Yoon, S. H.[1]; Jang, S. Y.[2]; Kim, S. Y.[2]; Shim, D. H.[1] [1]KAIST, REPUBLIC OF KOREA; [2]Agency for Defense Development, REPUBLIC OF KOREA	IFASD-2011-187 **Unsteady aerodynamic simulation of a flapping wing at low Reynolds number** Wu, J.H.[1]; Wang, D.[1]; Guo, S.J.[2] [1]Beihang University, CHINA; [2]Cranfield University, UNITED KINGDOM
09:30-10:00	IFASD-2011-128 **Aeroelasticity of a Laminar Wing** Mai, H.; Hebler, A. DLR, GERMANY **(Not available for USB Key Proceedings)**	IFASD-2011-134 **Advanced systems and services for Ground Vibration Testing – Application for a research test on an Airbus A340/600 aircraft.** Lau, J.[1]; Debille, J.[1]; Peeters, B.[1]; Giclais, S.[2], Lubrina, P.[2]; Boeswald, M.[3]; Govers, Y.[3] [1]LMS International, BELGIUM; [2]ONERA, FRANCE [3]DLR, GERMANY	IFASD-2011-140 **Statistical regularities of random loading of transport aircraft in service and development of full-scale airframe fatigue test spectra** Tsymbalyuk, V.; Orlova, T. TsAGI, RUSSIAN FEDERATION	IFASD-2011-148 **Aeroelastic behavior of a FALCON business jet in case of a failed servo-actuator** Huet, S.; Broux, G.; Garrigues, E. Dassault Aviation, FRANCE	IFASD-2011-199 **Parameter Estimation of a Fluttering Aeroelastic System in the Transitional Reynolds Number Regime** Khalil, M.[1]; Poirel, D.[2]; Sarkar, A.[1] [1]Carleton University, CANADA; [2]Royal Military College of CANADA, CANADA
10:00-10:30	**Coffee break**				
10:30-11:00	IFASD-2011-129 **Harmonic aerodynamics loads prediction including a linearized turbulence model** Levasseur, V.; Chalot, F.; Daumas, L.; Forestier, N. Dassault Aviation, FRANCE	IFASD-2011-135 **Ground Vibration Tests of a Helicopter Structure Using OMA Techniques** Grappasonni, C.[1]; Coppotelli, G.[1]; Ameri, N.[2]; Ewins, D.[2] [1]University of Rome "La Sapienza", ITALY; [2]University of Bristol, UK	IFASD-2011-141 **System Identification of the Simulated In-Flight Loads** Baluch, H.[1]; Voskuijl, M.[2]; van Tooren, M.[2] [1]College of EME, NUST, PAKISTAN [2]Delft University of Technology, NETHERLANDS	IFASD-2011-147 **An Overview of Preliminary Computational and Experimental Results for the Semi-Span Super-Sonic Transport (S4T) Wind-Tunnel Model** Silva, W.[1]; Perry, B.[1]; Florance, J.[1]; Sanetrik, M.[1]; Wieseman, C.[1]; Stevens, W.[1]; Funk, C.[1]; Hur, J.Y.[2]; Christhilt, D.[2]; Coulson, D.[3] - [1]NASA, USA; [2]Lockheed-Martin, USA; [3]Analytical Services Materials, USA	IFASD-2011-153 **Aeroelastic Tailoring of Flapping Membrane Wings for Optimum Thrust and Efficiency** Walker, W; Patil, M Virginia Tech, USA
11:00-11:30	IFASD-2011-130 **Aerodynamic correction technique for the vortex and doublet lattice methods based on the displacement of panel control points** Neto, A. B. G.; Silva, R. G. A. ITA, BRAZIL	IFASD-2011-136 **New excitation signals for aircraft Ground Vibration Testing** Giclais, S.[1]; Lubrina, P.[1]; Stephan, C.[1]; Boeswald, M.[2]; Govers, Y.[2], Ufer, J.[2]; Botargues, N.[3] [1]ONERA, FRANCE; [2]DLR, GERMANY; [3]Airbus, FRANCE	IFASD-2011-143 **Nonlinear Numerical Flight Dynamics for the Prediction of Maneuver Loads** Ritter, M.; Dillinger, J. DLR, GERMANY	IFASD-2011-149 **Modeling and Analysis of Control Surface Free-Play Nonlinearity in an Aeroelastic Wing** Vasconcellos, R.[1]; Abdelkefi, A.[2]; Marques, F.[1]; Hajj, M.[2]; [1]University of Sao Paulo, BRAZIL; [2]Virginia Tech, USA	IFASD-2011-154 **Wind tunnel experiments on a flapping drone** Razak, N.; Dimitriadis, G. University of Liege, BELGIUM
11:30-12:00	IFASD-2011-131 **Small Disturbance Navier-Stokes Computations Employing the Wilcox K-Omega Turbulence Model** Pechloff, A.; Laschka, B. TU Muenchen, GERMANY	IFASD-2011-137 **Wind tunnel analysis of separated aerodynamics leading to different types of Torsional Flutter of in bluff-bodies** Andrianne, T.[1]; Korbahti, B.[2]; Dimitriadis, G.[1] [1]University of Liege, BELGIUM [2]Istanbul University, TURKEY			IFASD-2011-155 **Nonlinear Aeroelasticity of Flapping Wing Micro Air Vehicles with a Surrogate Aerodynamic Model** Su, W.; Kang, C.-K.; Cesnik, C. University of Michigan, USA
12:00-13:30	**Lunch**				

Wednesday 29th June 2011 Afternoon

	Room 1	Room 2	Room 3	Room 4	Room 5
	Session 26	Session 27	Session 28	Session 29	Session 30
	CFD/CSM Applications Zdeneck Johan, Dassault-Aviation	**Aeroelastic optimisation 2** Svetlana Kuzmina, TsAGI	**Dynamic Loads II** Luigi Balis Crema, Roma University	**Jet Engine 2** Jean-Pierre Lombard, Safran	**Wind turbine & Propeller** Marc Rapin, Onera
13:30-14:00	IFASD-2011-156 **An overall strategy for the assessment of fluid–structure coupling tools for the prediction of control surface efficiency** Lepage, A.; David, J. M.; Girodroux-Lavigne, P. Onera, FRANCE	IFASD-2011-200 **Aerodynamic force simulation demo model for experiment-calculated flutter research** Smyslov, V.; Karkle, P.; Pronin, M. TsAGI, RUSSIAN FEDERATION	IFASD-2011-166 **A400M Tests used for Dynamic Loads Model Validation** Pastor, G.[1]; Perez-Galan, J.L.[1]; Climent, H.[1]; Rodriguez-Jimenez, A.J.[2]; Perez de la Serna, A.[2]; Veguillas, S.[2] [1]Airbus Military, SPAIN; [2]Altran, SPAIN	IFASD-2011-171 **Design and analysis of a transonic flutter research compressor** Mårtensson, H.[1]; Östlund, J.[1]; Bladh, R.[2]; Grüber, B.[3] [1]VOLVO, SWEDEN; [2]Siemens, SWEDEN; [3]MTU, GERMANY	IFASD-2011-183 **Vibration analysis of rotating thin-walled composite beam via finite element method** Ozgumus, O.; Durmaz, S.; Kaya, M. Istanbul Technical University, TURKEY
14:00-14:30	IFASD-2011-157 **Steady and Unsteady Simulations of Aerostabil Windtunnel Experiments** Stickan, B.; Dillinger, J. DLR, GERMANY	IFASD-2011-162 **Design optimization of a high aspect ratio flying wing** Haghighat, S.[1]; Liu, H.[1]; Martins, J.[2] [1]University of Toronto, CANADA; [2]University of Michigan, USA	IFASD-2011-186 **Flutter calculation based on GVT-results and theoretical mass model** Chajec, W.[1]; Seibert, T.[2] [1]Instytut Lotnictwa, POLAND; [2]EC-Engineering Group, POLAND	IFASD-2011-172 **Aeroelastic Effects in Mistuned Multi-Stage Turbomachinery Rotors** D'Souza, K.; Jung, C.; Epureanu, B. University of Michigan, USA	IFASD-2011-177 **Numerical Investigation of Propellers Whirl Flutter using elsA** Sicot, F.; Dugeai, A. Onera, FRANCE
14:30-15:00	IFASD-2011-192 **Service ORiented Computing EnviRonment (SORCER) for Large Scale, Distributed, Dynamic Fidelity Aeroelastic & Optimization** Kolonay, R.[1]; Sobolewski, M.[2] [1]USAF, USA; [2]Universal Technology Corporation, USA	IFASD-2011-163 **Structural optimization of a composite fighter wing to increase the flutter damping margin** Bråmå, T.; Leijonhuvfud, M. Saab, SWEDEN	IFASD-2011-168 **Military Transport Aircraft Dynamic Loads** Climent, H.; Maderuelo, C.; Oliver, M.; Claverias, S.; Martinez, P. Airbus Military, SPAIN	IFASD-2011-173 **Numerical investigation of supersonic flutter in space turbine based on unsteady computations linearized in the frequency domain in response to a prescribed blade motion** Ferria, H.[1]; Ferrand, P.[1]; Delmas, L.[1]; Aubert, S.[2] [1]ECL, FRANCE; [2]Fluorem, FRANCE	IFASD-2011-180 **Double wake vortex lattice modeling of horizontal axis wind turbines** Prasad, C.S; Dimitriadis, G University of Liege, BELGIUM
15:00-15:30	IFASD-2011-159 **Computational static aeroelastic models of swept-forward wings in transonic flow** Basov, E.; Arieli, R.; Karpel, M. Technion, ISRAEL	IFASD-2011-165 **A method for aeroservoelastic stability analysis of an optionally piloted aircraft** Silvestre, F. J.[1]; Lamp, M.[2]; Meyer-Brügel, W.[2]; Luckner, R.[2] [1]ITA, BRAZIL; [2]TU Berlin, GERMANY	IFASD-2011-170 **Refueling Boom Dynamic Loads** Rosich, F.; Arevalo, F.; Torralba, M.A.; Viana, J.T.; Climent, H. Airbus Military, SPAIN	IFASD-2011-175 **A Reduced Order Modeling Approach For Blisks With Large Mass, Stiffness and Geometric Mistuning** Madden, A.[1]; Epureanu, B.[1]; Filippi, S.[2] [1]University of Michigan, USA; [2]GE Aviation, USA	IFASD-2011-181 **Effects of geometrical nonlinearities on the dynamics of a supercritical Jeffcott rotor with internal damping** Montagnier, O. French Air Force Research Center (CReA), FRANCE
15:30-16:00	**Coffee break**				
	Auditorium				
16:00-16:45	**Keynote** **Real-Time CFD-Based Flutter Analysis of Complex Aircraft Configurations on a Mobile Device** **Prof. Charbel Farhat - Stanford University, USA** **Introduced by Prof. Roger Ohayon - CNAM, FRANCE**				
16:45-17:15	**Closing and Announcement of IFASD2013**				

Thursday 30th June 2011

Technical Visits

Departure from Paris: 08:00 - Arrival to Paris: 15:00 (Tour 1), 16:00 (Tour 2)