

16 January 2020

08:30-09:00 Registration

09:00-10:30 **Welcome**

Damage Detection and Size Estimation in the Composite Ultrasonic Structure Evaluation, Krzysztof Dragan, ITWL

Comparative Study on Fatigue Life of CFRP Composites with Damages, Marta Baran, ITWL

Comparison of Pulse Thermography (PT) and Step Heating (SH) Thermography in Non-Destructive Testing of Composite Materials, Paulina Kamińska, ITWL

A Comparison of Composite Specimens Damage Area Measurement using Pulsed Thermography and Ultrasonic NDT Methods, Rafał Luziński, ITWL

10:30-11:00 Break

11:00-12:30 ***Leap Engine Fan Blade Test Rig - Case Study***, Jonas Bjuhr, MTS

Nondestructive Methods of Composite to Metal Bonded Joints Assessment, Piotr Synaszko, ITWL

Examination of Cell Core Compliance in Layered Composite Samples, Dominik Nowakowski, ITWL

Corrosion Problems of Military Aircraft - Selected Problems on the Example of Su-22 Aircraft, Paweł Ciężak, ITWL

12:30-13:15 Lunch

13:15-14:45 ***Low and High Velocity Impact Damage Detection with use of Guided Waves Excited by Network of PZT Transducers***, Michał Dziendzikowski, ITWL

Assessment of the Extend of Damage in Metal Structures of Aircraft using Eddy Current Sensors, Patryk Niedbała, ITWL

UAV Pre-Flight Structural Strength Verification During On-Ground Static Load Test, Artur Kurnyta, ITWL

Modular Test Stand for Fatigue Testing of Aeronautical Structures – Verification of Assumptions, Michał Szmidt, Ł-ILOT

18:00 Conference dinner (Restaurant in the Witkowski Hotel)

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- 09:00-10:30 ***A Unified Approach for Calculating Life of Components combining Crack Initiation and Growth***, Rob Plaskitt, HBM Prenscia
Dynamic Tests of Fatigue in Landing Gears, Zbigniew Skorupka, Ł-ILOT
Microstructural and Mechanical Properties of Selective Laser Melted Inconel 718 for Different Geometries, Bartosz Madejski, Ł-ILOT
New Research Paths in X-Ray Diffraction Laboratory in the Institute of Aviation: Additive Manufacturing and Fatigue Life Determination with X-Ray Diffraction, Elżbieta Gadalińska, Ł-ILOT
- 10:30-11:00 Break
- 11:00-12:30 ***Mi-24 Helicopter Full Scale Fatigue Test Concept***, Piotr Rejmer, ITWL
A New Approach in Modelling and Testing the Fatigue Strength of the Helicopter Rotor Blades in Repair Period, Rafał Kowalski, 41st Training Air Base
Influence of Manufacturing Tolerances on Stress in Fir-tree Root of Turbine Blade, Grzegorz Moneta, Ł-ILOT
Structural Damages of the Inverse Hybrid Laminates Resulted by Interlaminar Shear Tests, Mariusz Frankiewicz, Wrocław University of Technology
- 12:30-13:15 Lunch
- 13:15-14:45 ***Modeling of Parachute Opening in the Aspect of Problems of Fatigue of Textile Materials' Coatings***, Ireneusz Kramarski, Ł-ILOT
Research Hovercraft - Fatigue Cracks Engine Frame, Krzysztof Szafran, Ł-ILOT
Low Cost Data Acquisition Unit for Flight Tests, Błażej Morawski, Warsaw University of Technology
Method of Fatigue Life Assessment of the Nodes of Concentrated Force Introduction into Composite Shell, Mirosław Rodzewicz, Warsaw University of Technology
- 14:45-15:15 Conference closure