

[03.1 – Materials issues, Fatigue and Damage Tolerance]

5.6 _ Advanced Materials

Date	28 September 2016 (Wednesday)
Time	09:30–12:00
Place	Track 5 (#105)
Session Chair: T. Ikeda	

5.6.1	09:30–10:00	[2016_0753] EMBEDDED SHAPE MEMORY ALLOY PARTICLES FOR THE SELF-SENSING OF FATIGUE CRACK GROWTH IN AN ALUMINUM ALLOY W. Leser, NASA Langley Research Center, United States
5.6.2	10:00–10:30	[2016_0274] PLASTIC DEFORMATION OF POWDER METALLURGY TUNGSTEN ALLOY FOILS FOR SATELLITE ENCLOSURES M. Kanerva ¹ , E. Sarlin, Tampere University of Technology, Department of Material Science, Finland; A. Hållbro, Plansee SE, Sweden; J. Jokinen ¹ ; ¹ Aalto University, Department of Mechanical Engineering, Finland
5.6.3	10:30–11:00	[2016_0457] MODERN MATERIALS IN AEROSPACE INDUSTRY – MAGNESIUM ALLOY CONTROL SYSTEM LEVER OF THE UNMANNED ILX – 27 HELICOPTER M. Wojtas ¹ , A. Sobieszek ¹ , L. Czajkowski ¹ , R. Zurawski ¹ ; ¹ Institute of Aviation, Poland
5.6.4	11:00–11:30	[2016_0239] NONLINEAR FREE VIBRATION OF FG CARBON NANOTUBES BASED ON MODIFIED COUPLE STRESS AND VON KARMAN THEORIES H. Dastoom-L, Sharif University of Technology, Iran
5.6.5	11:30–12:00	[2016_0117] MICROSTRUCTURES AND OXIDATION BEHAVIOURS OF PARTICLES MODIFIED PTAL BOND COATS ON NI SUPERALLOYS Z.L. Hong, China