

OS17: Perspectives for multi-lateral joint research through IFS Lyon Center

CON-TACHIBANA

November 7, 2018

Part I: Toward Establishment of Japan-US-French partnership

14:00-14:10

Introduction of IFS Lyon Center

T. Uchimoto

14:10-14:30

Multiscale and Multiphysics Modeling for Aircraft Design

S. Obayashi

14:30-14:50

UW's Roles and Implementation Plan for "Research Integration" and "Strategic Network" in the Core-to-Core Program

F.S. Ohuchi

14:50-15:10

Smart Titanium alloys: composites made thanks to a new elaboration route coupling additive manufacturing and sintering

D. Faburegue

Part II:

15:10-15:30

OS17-1 / CRF-R5

Fiber- and Paper-Based Composites Comprising Nanocellulose and Carbon Nanotubes for Multifunctional Sensing Applications

A. B. Dichiara, J. Chung, H. Takana, F.S. Ohuchi

15:40-16:10

OS17-2 / CRF-R6

International Joint Project for Risk Management of Piping Systems Based on Monitoring and Predicting Wall Thinning during Decommissioning of Fukushima Daiichi Nuclear Power Plant

T. Takagi, T. Uchimoto, Y. Watanabe, P. Guy, C. Reboud, P. Calmon, N. Mary, C. Boller

16:10-16:30

OS17-3 / CRF-92

Magnetic Hysteresis Models for the Interpretation of Non-Destructive Testing Techniques based on Magnetic Incremental Permeability

B. Gupta, B. Ducharne, G. Sebald, T. Uchimoto, T. Takagi

16:30-16:50

OS17-4 / CRF-93

Coupled analysis of high-density hydrogen safety management

J. Ishimoto, A. Combescure

16:50-17:10

OS17-5 / CRF-94

Mathematical Modeling and Simulations of Soft-elastic Materials under Large Strain

H. Koibuchi, C. Bernard, J.-M. Chenal, G. Diguët, J.-Y. Cavaille, G. Sebald, T. Takagi, L. Chazeau

17:20-17:40

OS17-6 / CRF-95

Investigation of the Flow Field Dynamics during Cold-Spray of Polymers

C. A. Bernard, H. Takana, K. Ravi, O. Lame, K. Ogawa, J.-Y. Cavaille

17:40-18:00 OS17-7

Effect of Phase Separation Structure on Interfacial Shear Strength between Carbon Fiber and Polymer Blend

H. Kosukegawa, F. Dalmas, J.-Y. Cavaille, T. Takagi