OS4 : Flow Dynamics and Combustion Technology of Hybrid Rocket Propulsion,10th Edition

EX-3
November 8, 2018

9:00-10:00 OS4-1
Invited
Dynamic Behavior of High Frequency Pressure and Heat Release Fluctuations in Hybrid Rocket
H. Choi, S.H. Kang, C. Lee

10:00-10:20 OS4-2
Verification of CFD Modeling of Hybrid Rocket Combustion Instability with Experimental Results
G. Karthikeyan , T. Shimada

10:40-11:00 OS4-3
Fuel Regression Behavior of Swirling-Injection End-Burning Hybrid Rocket Engine
T. Sakurai , Y. Oishige, K. Saito

11:00-11:20 OS4-4
Experimental Investigation of Paraffin-Based Hybrid Rocket Motor
Y. Wu , X. Yu, S. Li, Z. Wang, X. Liu, N. Wang

11:20-11:40 OS4-5
Fuel Regression Rate Augmentation Produced by a Radiant Heat Flux
T. Morita , K. Aono, S. Yamaguchi

11:40-12:00 OS4-6
Study of Hypergolic Hybrid Rocket Using Hydrogen Peroxide as Oxidizer
C.-R. Lu, Y.-C. Chao, C.-A. Chen , H.-W. Hsu

13:10-13:30 OS4-7
Error Propagation Analysis in Mixture- Ratio-Controlled Throttling in Hybrid Rocket
T. Shimada

13:30-13:50 OS4-8
O/F Ratio Measurement for Hybrid Rocket Engine Feedback Control
J. Messineo , K. Kitagawa, T. Shimada

13:50-14:10 OS4-9
Experimental study of O/F Control of A-SOFT Hybrid Rocket
D. Kishizato , Y. Koinuma, I. Nakagawa, K. Kitagawa, N. Kimura, T. Shimada

14:10-14:30 OS4-10
Proposal of Flight Demonstration of A-SOFT Hybrid Rocket Using Sounding Rocket
K. Kitagawa , T. Shimada

14:50-15:10 OS4-11
Hybrid Propulsion for Low-cost Access to Space
M. Kobald , C. Schmierer

15:10-15:30 OS4-12
Preliminary Flow System Design of an Apogee Kick Motor Using N2O/C2H4
L. Kamps , P. Biswas, K. Sakurai, E. Uchiyama, H. Nagata

15:30-15:50 OS4-13
Effect of Baffle Plate on Combustion Characteristics of Aluminized Solid Fuel for Hybrid Rocket
Y. Kanbayashi , Y. Yamazaki, H. Wachi, Y. Murakami, A. Takahashi, K. Takahashi

15:50-16:10 OS4-14
Quantitative Evaluation of Blast Safety Distance for Hybrid Rocket Propellants
A.Takahashi , K. Kitagawa, T. Shimada

16:30-16:50
Wrap-up
T. Shimada