

March 17, 2016.

Room	Room A	Room B	Room C	Room D	Room E
Session Chair Co-Chair	A-1:Jet Engine 1 Mizuho Aotsuka (IHI)	B-1:OS Acoustics in Propulsion Systems Susumu Teramoto (The University of Tokyo) Seiji Tsutsumi (JAXA)	C-1: Combustion Acoustics Jaye Koo (Korea Aerospace University)	D-1:Propellant Takeshi Kanda (JAXA) Timothee L Pourpoint (Purdue University)	E-1:Cryogenic Fuel Yu Daimon (JAXA) Soonsam Hong (KARI)
8:40~9:00	AJCPP2016-027 Numerical Simulation of Sand Erosion Phenomenon of CMC Coated Substrate Caused by Low Speed Particles Yoshimasa Fuma, Makoto Yamamoto, Hiroya Mamori (Tokyo University of Science), Yoji Okita (IHI)	AJCPP2016-131 Acoustic Research Programs in Aircraft Engines in JAXA: aFJR and Green Engine Tatsuya Ishii, Kenichiro Nagai, Hideshi Oinuma, Junichi Kazawa, Shunji Enomoto (JAXA), Tsutomu Oishi (IHI)		AJCPP2016-156 Experimental Study on Liquid Core Length of Simulant Gel with and without Nano-sized Metal Particles KyeHwan Kim, Seongjoo Han, Heejang Moon, Jinkon Kim (Korea Aerospace University)	AJCPP2016-057 Experimental Study on Sloshing with Phase Change using Liquid Nitrogen Daichi Haba, Takehiro Himeno, Toshinori Watanabe, Chihiro Inoue, Seiji Uzawa (The University of Tokyo), Satoshi Nonaka, Yutaka Umemura(JAXA)
9:00~9:20	AJCPP2016-075 Study on the Test Bench Development for the EECU Performance Verification Test of Aircraft Gas Turbine Engine Kho Seonghee, Ki Jayoung (EGT Co., Ltd), Kong Changduk (Chosun University)	AJCPP2016-089 Comparison of Acoustic Intensity Vectors with SPL and Phase Distributions of Supersonic Jet Masahito Akamine, Koji Okamoto (The University of Tokyo), Kent L. GeeGee, Tracianne B. Neilsen (Brigham-Young University), Susumu Teramoto (The University of Tokyo), Seiji Tsutsumi (JAXA), Takeo Okunuki (The University of Tokyo)		AJCPP2016-022 Numerical Analysis of Exhaust Plume for 10N Grade MMH-NTO Thruster with Frozen Equilibrium Hyeonah Kim, Kyun Ho Lee (Sejong University)	AJCPP2016-067 Study for numerical calculation of dynamic wetting in spacecraft propellant tank Ryoji Imai, Yuji Amano, Sho Goto (Muran Institute of Technology)
9:20~9:40	AJCPP2016-178 Effect of the Axial Location of Single Circumferential Casing Groove on the Unsteadiness of Tip Leakage Flow in a Transonic Compressor Xiaoyong Zhou, Qingjun Zhao, Weiwei Cui, Xiaolei Sun, Jing Li (Chinese Academy of Sciences)	AJCPP2016-132 Impact of Secondary Jets from a Partitioned Annular Slit on Acoustics of Heated Subsonic Jet Kanta Sato (The University of Tokyo), Tatsuya Ishii, Hideshi Oinuma, Kenichiro Nagai (JAXA), Shigehiko Kaneko, Hirofumi Daiguji (The University of Tokyo)	AJCPP2016-052 Swirling Premixed Flame Response on Transverse Acoustic Excitation Yongjin Park, Seonghyeon Seo (Hanbat National University)	AJCPP2016-030 Experimental investigation on the evaporation process of ADN-based liquid propellant Liyue Jing, Jialong Huo, Xiaoqing You, Min Zhu (Tsinghua University), Zhaopu Yao (Beijing Institute of Control Engineering)	AJCPP2016-060 Numerical Simulation of Bubble Point Tests of Mesh Screens for Use in Propellant Management Device Hyuntak Kim (KAIST), Sang Hyuk Lim, Hosung Yoon (Space Solutions Co. Ltd.), Sejin Kwon (KAIST)
9:40~10:00	AJCPP2016-058 JAXA aeronautical programs and future aero engine Hisao Futamura (JAXA)	AJCPP2016-127 Application of Linearized Euler Equation Solver in Frequency Domain to Sound Propagation and Radiation Problems Sho Tokunaga, Yoshimi Nagayama, Yuzo Inokuchi, Nobuhiko Yamasaki (Kyushu University)	AJCPP2016-010 Effects of Acoustic Forcing and Fuel Properties on Vortex-Flame Interaction in a Dump Combustor Donghyun Hwang, Kyubok Ahn (Chungbuk National University)	AJCPP2016-036 Development of Liquid Propellant Miniature Microwave Discharge Thruster Bunsuke Ueno, Hou-Yi Lee, Koichi Ushio, Naoji Yamamoto, Taichi Morita, Hideki Nakashima (Kyushu University)	AJCPP2016-175 Study on Propellant Management Devices by Mesh-type Baffles Shizuka Hamajima, Takehiro Himeno, Yasunori Sakuma, Toshinori Watanabe, Seiji Uzawa (The University of Tokyo), Yutaka Umemura, Hideyo Negishi (JAXA), Keitaro Ishikawa (Mitsubishi Heavy Industries)
10:00~10:20	AJCPP2016-189 Effect of Viscosity and Surface Tension on the Impact Force of Low-Speed Droplets Colliding with a Solid Surface Bin Zhang, Jingyin Li, Penghua Guo, Qian Lv (Xi' an Jiaotong University)	AJCPP2016-122 Validation and Verification of Numerical Prediction Method for Lift-off Acoustics of Launch Vehicles Seiji Tsutsumi, Keita Terashima (JAXA)	AJCPP2016-056 Shock Attenuation in Gap Test Configuration for Pyrotechnic Device Bohoon Kim, Minsung Kim, Jack J. Yoh (Seoul National University)	AJCPP2016-182 Performance Comparison of Catalysts on Commercial Grade Hydrogen Peroxide with Ethanol Blending Seungkwan Baek, Hongjae Kang, Woosuk Jung, Sejin Kwon (KAIST)	AJCPP2016-051 Development Study of a Capacitance Based Void Fraction Sensor for Cryogenic Two-phase Flow Yuki Sakamoto, Tetsuya Sato (Waseda University), Hiroaki Kobayashi (JAXA), Kota Urugaki, Shohei Tane, Kazuma Minote (Waseda University)
10:20~10:40	Coffee Break				
Session Chair Co-Chair	A-2:Rocket Engine Turbopump Masaharu Uchiumi (JAXA) Hiroumi Tani (JAXA)	B-2:OS Acoustics in Propulsion Systems Nobuhiko Yamasaki (Kyushu University) Tatsuya Ishii (JAXA)	C-2:Detonation In-Seuck Jeung (Seoul National University) Ken Matsuoka (Nagoya University)	D-2:Turbine Tetsuya Sato (Waseda University)	E-2:Space Propulsion Yuya Oshio (Tokyo University of Agriculture and Technology)
10:40~11:00	AJCPP2016-187 The performance and cavitation research of high speed centrifugal pump with the variable-pitch inducer Pei Chongyan, Li Linlin , Cheng Honggui (The 31st Research Institute of CASIC), Sun Qiangqiang , Li Yanhui , Yi Wanshuang , JIANG Jin (Wuhan University)	AJCPP2016-042 On the Prediction of Discrete Frequency Noise Generated by Fan and OGV Interaction in Aero-engine X. Wang, X. Sun (Beijing University of Aeronautics & Astronautics)	AJCPP2016-142 Numerical Analysis of Oblique Detonation in Fuel Concentration Gradients Kazuya Iwata, Shinji Nakaya, Mitsuhiro Tsue (The University of Tokyo)	AJCPP2016-179 Investigation on the Channel Boundary Optimization of a Partial Admission Turbine Xiuming Sui, Wei Zhao, Qingjun Zhao, Weiwei Luo (Chinese Academy of Sciences)	AJCPP2016-007 Theoretical Modeling and Simulation of Flyer Acceleration in Exploding Foil Initiator Kyoungjin Kim, Ho Sang Kwak (Kumoh National Institute of Technology), Kyu-Hyoung Kim (Hanwha Corporation), Seung-gyo Jang (Agency for Defense Development)
11:00~11:20	AJCPP2016-025 Cavitation Characteristics of Small Turbopump for Rocket Engine Soonsam Hong, Changho Choi (KARI)	AJCPP2016-098 Absorption Performance of Helmholtz Resonator made from Resin by 3D Printer Kei Kurihara, Yusuke Akamisaka, Kenta Kato, Hidemi Toh, Daisuke Sasaki (Kanazawa Institute of Technology), Tatsuya Ishii, Kenichiro Nagai (JAXA)	AJCPP2016-144 Numerical Investigation of Low Frequency Oscillation in Unsteady Shock-Induced Combustion over Blunt Projectiles P.Pradeep Kumar, Kui-Soon Kim, Sejong Oh, Jeong-Yeol Choi (Pusan National University)	AJCPP2016-105 DESIGN AND FLUID-THERMAL COUPLING ANALYSIS FOR A COOLING STRUCTURE OF A GAS TURBINE VANE Zhang Wenting, Liu Hong (Tsinghua University)	AJCPP2016-076 Thrust Measurement of Magneto Plasma Sail combined with a Magnetic Nozzle. Yoshihiro Kajimura, Tatsumasa Hagiwara (Akashi National College of Technology), Yoya Oshio, Ikkoh Funaki (JAXA), Hiroshi Yamakawa (Kyoto University)

Room	Room A	Room B	Room C	Room D	Room E
11:20~11:40	AJCPP2016-083 Experimental Observation of Backflow-vortex Cavitation on a Rotating Inducer Yutaka Ito, Takao Nagasaki (Tokyo Institute of Technology)	AJCPP2016-019 The Effect of Fuel Composition at Flame Transfer Function Characteristics of Partially Premixed Combustor Jisu Yoon, Seongpil Joo, Jeongjin Kim, Youngbin Yoon (Seoul National University)	AJCPP2016-155 Structure of Rotating Detonation Waves in a Two-Parallel-Plane Combustor with Orthogonally Mixing Injectors Soma Nakagami, Ken Matsuoka, Jiro Kasahara (Nagoya University), Yoshiki Kumazawa, Jumpei Fujii, Akiko Matsuo (Keio University), Ikkoh Funaki (JAXA)	AJCPP2016-053 Conjugate Heat Transfer Simulations of Turbomachinery based on Discontinuous Galerkin method Longgang Liu, Chunwei Gu (Tsinghua University), Xiaodong Ren (Hong Kong University of Science and Technology)	AJCPP2016-112 Research and Development of High-Power Steady-State Magneto-Plasma-Dynamic Thrusters with Permanent Magnets for Manned Mars Exploration Kengo Chino, Kohei Kadohata, Tomoya Suzuki, Yoshikazu Sugiyama, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology)
11:40~12:00	AJCPP2016-008 Optimized Aerodynamic Design of the Turbine for a Rocket Turbopump Kazuyuki Yada, Noriyuki Shimiya, Masaharu Uchiumi (JAXA), Yuki Tokuyama, Ken-ichi Funazaki (Iwate University)	AJCPP2016-111 A Comparative Study on Aerodynamic Performance and Noise Characteristics of Two Kinds of Long-eared Owl Wing Models Based on Different Reconstruction Method Dian Li, Luona Yang, Xiaomin Liu (Xi'an Jiaotong University)	AJCPP2016-157 Experimental Flow Analysis of the Combustion Channel Flow of a Rotating Detonation Engine Kazuki Ishihara, Yuichi Kato, Keisuke Goto, Ken Matsuoka, Jiro Kasahara (Nagoya University), Yoshitaka Sato, Akiko Matsuo (Keio University), Ikkoh Funaki (JAXA)	AJCPP2016-092 A numerical investigation of the unsteady flow field in a supersonic impulse turbine for swept rotor blade. Sooin Jeong, Byoungik Choi, Kuisoon Kim (Pusan National University)	AJCPP2016-091 The time evolution of plasma and magnetic field structure in a magnetic thrust chamber Masafumi Edamoto, Naoya Saito, Taichi Morita, Naoji Yamamoto, Ryosuke Kawashima, Hideki Nakashima (Kyushu University), Shinsuke Fujioka, Akifumi Yogo, Hiroaki Nishimura (Osaka University), Atsushi Sunahara (Institute for Laser Technology), Yoshitaka Mori (The Graduate School for the Creation of New Photonics Industries), Tomoyuki Johzaki (Hiroshima University)
12:00~12:20	AJCPP2016-138 Compound sweep and lean effects of blade leading edge on the performances of transonic centrifugal impellers Zhao Huijing, Wand Zhiheng, Tang Yonghong, Xi Guang (Xi'an Jiaotong University)				
12:20~13:20	Lunch time				
	Room A L-1:Plenary Lecture Prof. Mitsuhiro Tsue (The University of Tokyo)				
13:20~14:10	AJCPP2016-S01 National Flagship Launch System in the next generation, H3 Mr. Koichi Okita (JAXA)				
14:10~14:20	Coffee break				
Session Chair Co-Chair	A-3:OS Thrusters -propellant, internal phenomenon and development- Chihiro Inoue (The University of Tokyo)	B-3:Fluid Dynamics Koji Okamoto (The University of Tokyo)	C-3: Scramjet and Ramjet 1 Takayuki Kojima (JAXA)	D-3:Nano-Satellite Propulsion Kyoungjin Kim (Kumoh National Institute of Technology) Satoshi Hosoda (JAXA)	E-3:Solid Rocket Propulsion Ichiro Nakagawa (Tokai University) Kazuyuki Yada (JAXA)
14:20~14:40	AJCPP2016-038 Development and Characterization of Hypergolic Propellants at Purdue University Timothee L Pourpoint (Purdue University)	AJCPP2016-170 A Numerical Simulation of Transient Flow in a Missile Canister Bhushan A. Bhosale,, Seong Hun Bae, Jeong Soo Kim (Pukyong National University), Hyuk Soo Jeon, Chul Hyun Park (Agency for Defense Development)	AJCPP2016-009 Mach Number Effect on Breakdown of Streamwise Vortices in Supersonic Flow Yamato Tsukazaki, Shoji Sakaue, Takakage Arai (Osaka Prefecture University)	AJCPP2016-113 Development of Osaka Institute of Technology Nano-Satellite PROITERES-2 with High-Power Electrothermal Pulsed Plasma Thrusters Hiroki Fujita, Tsubasa Yamauchi, Takuya Kamimura, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology), Tomoyuki Ikeda (Tokai University)	AJCPP2016-043 Numerical Simulation for Performance Prediction of MEMS Solid Propellant Thruster Juyeong Jung (Hanbat National University), Daeban Seo (KARI), Jongkwang Lee (Hanbat National University)
14:40~15:00		AJCPP2016-085 Influence of downstream condition on the flow in sonic nozzle M M A Alam, Hideki Sato, Manabu Takao (NIT Matsue College), H D Kim (Andong National University), Toshiaki Setoguchi (Saga University)	AJCPP2016-012 Numerical Simulation of the Unsteady Flows in Scramjet Ruoyu Deng (Andong National University), Yingzi Jin (Zhejiang Sci-Tech University), Heuy Dong Kim (Andong National University)	AJCPP2016-115 Research and Development of Electrothermal Pulsed Plasma Thrusters with High Total Impulse for the 2nd PROITERES Nano-Satellite Keita Kanaoka, Ryota Fujita, Koki Ryuho, Kohei Ono, Naoki Morikawa, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology), Takashi Wakizono (High Serve Inc)	AJCPP2016-066 Extraction of detailed reaction kinetics of aluminized RDX using isoconversional method and isothermal DSC for propulsion Yoocheon Kim, Jack J. Yoh (Seoul National University), Kuktae Kwon, Jungsu Park (Agency for Defense Development),
15:00~15:20	AJCPP2016-137 Three-dimensional Flame Structure of Impinging Gas Jets for Space-craft Small Thrusters Yu Daimon, Hiroumi Tani (JAXA), Hiroshi Terashima (The University of Tokyo), Nozomu Kanno (Meijo University), Yoshiki Matsuura (IHI Aerospace Co Ltd.), Mitsuo Koshi (Yokohama National University)	AJCPP2016-184 A flow analysis of elbow intake duct for the purpose of the experiment of the turbo jet engine under the water Gu Kim, Seonghee Kho, Jayoung Ki (EGT), Youngjun Yu, Euntaek Lee (Agency for Defense Development)	AJCPP2016-016 Vortex-Generator Control of the Supersonic Flow Past a Cylindrical Protrusion Vignesh Ram P. Sethuraman (Andong National University), Sudip Das (Birla Institute of Technology), Heuy Dong Kim (Andong National University)	AJCPP2016-160 Experimental study on PTFE-sheet-fed pulsed plasma thruster Tetsushi Yoshikawa (Yokohama National University), Hitoshi Kuninaka (JAXA), Toru Hyakutake (Yokohama National University), Kazutaka Nishiyama (JAXA)	AJCPP2016-102 Rheological Study of Solid Ethanol Using Different Solidifying Agents Jerin John, Purushothaman Nandagopalan, Seung Wook Baek (KAIST)

Room	Room A	Room B	Room C	Room D	Room E
15:20~15:40	AJCPP2016-134 Numerical Modeling of Droplet Burning Rate of Hypergolic Propellants Hiroumi Tani, Yutaka Umemura, Yu Daimon (JAXA), Hiroshi Terashima (Hokkaido University), Mitsuo Koshi (Yokohama National University)		AJCPP2016-177 Experimental Research on Aerated-Liquid Jet at Low Gas-Liquid Ratio Zhang Wanzhou, Yang Shunhua, Le Jialing, Deng Weixin, Tian Ye (China Aerodynamics Research and Development Center)	AJCPP2016-166 Potential Measurement of a Plasma and a Thruster in a Miniature Microwave Discharge Plasma Thruster Koichi Ushio, Bunsuke Ueno, Naoji Yamamoto, Taichi Morita, Hideki Nakashima (Kyushu University)	AJCPP2016-108 Effect of the combustion instability on internal ballistic of Solid Rocket Motors Ji-Seok Hong, Hong-Gye Sung, Heejang Moon (Korea Aerospace University), Won-Suk Ohm (Yonsei University), Seonghyeon Seo (Hanbat National University), Dohyung Lee (Agency for Defense Development)
15:40~16:00				AJCPP2016-173 Development of a low-power cylindrical type Hall thruster with permanent magnets for micro-satellites Holak Kim, Seunghun Lee, Youbong Lim, Wonho Choe (KAIST)	AJCPP2016-026 Effect of Pintle on Low-Frequency L-star Instability in Solid Rocket Motors with Variable Pintle Thruster Donghee Lee, Seongmin Joo, Junseong Kim, Seunghyun Ryu (Korea Aerospace University), Honggye Sung, Heejang Moon, Juneseo Yang (Agency for Defense Development)
16:00~16:20	Coffee break				
Session Chair Co-Chair	A-4:OS Thrusters -propellant, internal phenomenon and development- Jun Hayashi (Osaka University)	B-4:Jet Engine Compressor Technology Kong Changduk (Chosun University) Yasunori Sakuma (The University of Tokyo,)	C-4: Hypersonic Transport Propulsion 1 Takakage Arai (Osaka Prefecture University) Heuy Dong Kim (Andong National University)	D-4:Non-Chemical Propulsion Yoshihiro Kajimura (Akashi National College of Technology)	E-4:Hybrid Rocket 1 Takashi Sakurai (Tokyo Metropolitan University)
16:20~16:40	AJCPP2016-055 Chemical kinetics of hypergolic ignition for CH3NHNH2/N2O4/NO2 gas mixtures Nozomu Kanno, Yuto Kanie (Meijo University), Hiroumi Tani, Yu Daimon (JAXA), Hiroshi Terashima (Hokkaido University), Mitsuo Koshi (Yokohama National University)	AJCPP2016-034 A New Method of Controlling Oscillation of Cascade Blades Based on a Genuine Three-dimensional Model Ruwen Qu, Xiaoyu Wang, Xiaofeng Sun (Beihang University)	AJCPP2016-073 Dynamic Simulation of Hypersonic Pre-Cooled Turbojet Engine Ryo Ando, Kazuki Kaneoya, Tetsuya Sato (Waseda University), Hideyuki Taguchi, Hiroaki Kobayashi, Takayuki Kojima (JAXA)	AJCPP2016-117 Thermal Design of Fully-Radiation-Cooled High-Power Steady-State MPD Thrusters with Permanent Magnets for In-Space Propulsion Yoshikazu Sugiyama, Tomoya Suzuki, Kengo Chino, Kohei Kadohata, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology)	AJCPP2016-124 Experiments of an Ejector-jet using a Wax-based Fuel Hybrid Rocket Motor Yuichi Nakada, Ichiro Nakagawa (Tokai University)
16:40~17:00	AJCPP2016-062 Decomposition Mechanism of Propellants Based on High Energetic Materials Hiroki Matsunaga (Fukuoka University), Hiroto Habu (JAXA), Masaru Noda (Fukuoka University), Atsumi Miyake (Yokohama National University)	AJCPP2016-054 Instabilities inception in a single-stage transonic axial compressor with circumferential groove Byeung Jun Lim, Tae Choon Park, Young Seok Kang, Bong Jun Cha (KARI)	AJCPP2016-129 Mach 4 Wind Tunnel Firing Test of Hypersonic Pre-Cooled Turbojet Takayuki Kojima, Hideyuki Taguchi, Hiroaki Kobayashi, Motoyuki Hongoh, Daisaku Masaki, Shunsuke Nishida, Sadatake Tomioka, Toshihito Saito, Shuichi Ueda, Kouichiro Tani (JAXA)	AJCPP2016-130 Experimental Investigations of High Power Quasi-Steady MPD Thruster Yuya Oshio (JAXA), Satoshi Tonooka (The Graduate University for Advanced Studies) Ikkoh Funaki (JAXA)	AJCPP2016-097 Numerical Analysis of Combustion Instability in Axial-Injected Hybrid Rocket Engines Goutham Karthikeyan, Toru Shimada (JAXA)
17:00~17:20	AJCPP2016-146 Combustion and decomposition model of ammonium dinitramide based propellant Isomerization of dinitraminic acid (HDN) Yu-ichiro Izato, Mitsuo Koshi, (Yokohama National University), Hiroto Habu (JAXA), Atsumi Miyake (Yokohama National University)	AJCPP2016-135 Characteristics of Liquid Sheet Disintegration from the Trailing Edge of the Cascade Blade Baber Javed, Toshinori Watanabe, Takehiro Himeno, Seiji Uzawa (The University of Tokyo)	AJCPP2016-013 CFD Study of Pseudo-Shock Waves in a Rectangular Duct Ruoyu Deng (Andong National University), Toshiaki Setoguchi (Saga University), Heuy Dong Kim (Andong National University)	AJCPP2016-143 A Development of power supply for AF 2D-MPD Shunichiro Ide (The University of Tokyo), Ryodo Tsukizaki, Hitoshi Kuninaka (JAXA)	AJCPP2016-050 Change of Flow Structure in Shear Layer due to Wall Blowing Doyeong Kim, Young Joo Moon, Changjin Lee (Konkuk University)
17:20~17:40	AJCPP2016-072 Prevention of Flashback in a Thruster with ADN-based Ionic Liquid Propellant Yuichiro Ide (The Graduate University for Advanced Studies), Takuya Takahashi, Keiichiro Iwai, Katsuhiko Nozoe (Carlit Holdings Co., Ltd.), Hiroto Habu, Shinichiro Tokudome (JAXA)	AJCPP2016-147 Effect of Inlet Distortion on Aerodynamic Characteristics of Axial Compressor Cascade Kohei Horimoto, Toshinori Watanabe, Takehiro Himeno, Chihiro Inoue, Yasunori Sakuma (The University of Tokyo)	AJCPP2016-133 Combustion Characteristics for Small-scaled Hypersonic Vehicle in Low Enthalpy Supersonic Flow Chae-hyoung Kim, Yeoungmin Han (KARI), In-Seuck Jeung (Seoul National University)	AJCPP2016-119 Flowfield Simulation for Development of High-Power Electrothermal Pulsed Plasma Thrusters onboard Osaka Institute of Technology Second PROITERES Nano-Satellite Masato Tanaka, Ryota Fujita, Keita Kanaoka, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology)	
17:40~18:00		AJCPP2016-152 Numerical Analysis of Droplets Movement in Axial Compressor under Overspray Condition Atsushi Shimizu, Toshinori Watanabe, Takehiro Himeno, Chihiro Inoue (The University of Tokyo)	AJCPP2016-153 Effects of Exhaust from Pre-Cooled Turbojet Engine on Ozone Concentration in Lower Stratosphere Yohei Asakami, Ichiyu Fujio, Shinji Nakaya, Mitsuhiro Tsue (The University of Tokyo)	AJCPP2016-121 Initial check out and EDVEGA phase operation of Hayabusa2 ion engine system Satoshi Hosoda, Kazutaka Nishiyama, Ryudo Tsukizaki, Hitoshi Kuninaka (JAXA)	

March 18, 2016.

Room	Room A	Room B	Room C	Room D	Room E
Session Chair C0-chair	A-5:Jet Engine Technology Yasunori Sakuma (The University of Tokyo) Youngbin Yoon (Seoul National University)	B-5:OS Thrusters –propellant, internal phenomenon and development– Yu Daimon (JAXA)	C-5:Scramjet and Ramjet 2 Tetsuya Sato (Waseda University)	D-5:OS Electric propulsion: Hall thruster Naoji Yamamoto (Kyushu University) Satoshi Hosoda (JAXA)	E-5:Injector Technology in Rocket Engines Hee Jang Moon (Korea Aerospace University)
9:00~9:20		AJCPP2016-128 Study on Upwash Generated by Impingement of Two Liquid Sheets Takao Inamura, Sosuke Endo, Koji Fumoto (Hiroaki University)		AJCPP2016-114 Research and Development of Low-Power Cylindrical Hall Thrusters for Powered Flight onboard Osaka Institute of Technology Nano-Satellite PROPITERES-3 Tetsuo Kakuma, Taisuke Kagota, Yuya Takahata, Yusuke Furukubo, Mitsuyoshi Kobayashi, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology), Tomoyuki Ikeda (Tokai University)	AJCPP2016-044 Study on Flow Analysis of Hot Gas Valve with Pintle Kyungwook Lee (Hanbat National University), Seonuk Heo, Sejin Kwon (KAIST), Jongkwang Lee (Hanbat National University)
9:20~9:40	AJCPP2016-011 Effect of Rib Geometry in Turbulator Cooling on Cooling Performance Hidemi Toh, Syoma Furuta (Kanazawa Institute of Technology), Ryouyusuke Hinishi (IHI Jet Service)	AJCPP2016-061 Measurements of Spatial Distributions of Total Mass Flux and Spray Mass Flux in Impinging Jet Atomization Jun Hayashi, Daisuke Sato, Singo Karikawa (Osaka University), Yu Daimon, Hiroumi Tani (JAXA), Fumiteru Akamatsu (Osaka University)	AJCPP2016-028 Novel Vitiated Air Heater with Ethanol Blended Hydrogen Peroxide W.S. Jung, S.K. Baek (KAIST), T.S. Kwon, J.H. Park (Defense R&D Institute), S.J. Kwon (KAIST)	AJCPP2016-118 Research and Development of High-Power, High-Specific-Impulse Hall Thruster for Manned Mars Exploration Yuya Takahata, Taisuke Kagota, Tetsuo Kakuma, Yusuke Furukubo, Mitsuyoshi Kobayashi, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology)	AJCPP2016-048 On the bubble breakup within an effervescent atomizer Moongeun Hong (KARI)
9:40~10:00	AJCPP2016-082 Rough Weight Estimation for Intercooled and Recuperated Aviation Gas Turbine Using Airfoil Heat Exchangers Yutaka Ito (Tokyo Institute of Technology)	AJCPP2016-150 Numerical Simulation of Impinging Jet Atomization for Bi-propellant Thrusters Junya Kouwa, Shinsuke Matsuno (IHI), Yasuhito Kano (IHI Aerospace Co., Ltd) Atsushi Shimizu, Chihiro Inoue, Takehiro Himeno, Toshinori Watanabe (The University of Tokyo)	AJCPP2016-014 Supersonic Unsteady Cavity Flows Past Curved Walls R. Das, A. R. Ye (Andong National University), T. Setoguchi (Saga University), H. D. Kim (Andong National University)	AJCPP2016-148 Thrust measurement of high power RAIJIN Hall thruster using dual pendulum thrust stand Yushi Hamada, Yuya Hirano, Junhwi Bak, Rei Kawashima, Tony Schoenherr, Kimiya Komurasaki, Hiroyuki Koizumi (The University of Tokyo)	AJCPP2016-149 Effects of Total Momentum Ratio on Combustion Behavior in an Ethanol / Liquid Oxygen Rocket Engine Combustion Chamber with a Pintle Injector Hiromitsu Kakudo, Kazuki Sakaki, Shinji Nakaya, Mitsuhiro Tsue (The University of Tokyo), Kyohei Suzuki, Ryuichiro Kanai, Takahiro Inagawa (Interstellar Technologies), Tetsuo Hiraiwa (JAXA)
10:00~10:20	AJCPP2016-190 Large Eddy Simulation of Collision Breakup and Atomization of a Liquid Jet into Cross Turbulent flows Young-lin Yoo, Hong-Gye Sung (Korea Aerospace University)	AJCPP2016-037 Thruster Development in MHI (Mitsubishi Heavy Industries, Ltd.) Tetsuya Matsuo, Nobuhiko Tanaka, Hiroyuki Mishima, Katsumi Furukawa, Daijiro Shiraiwa, (MHI)	AJCPP2016-154 Effect of Fuel Penetration Height on Combustion Behavior of Ethanol in a Scramjet Model Combustor Yusuke Kawasumi, Naoki Igarashi, Shinji Nakaya, Mitsuhiro Tsue (The University of Tokyo), Yasushige Ujiie (Nihon University)	AJCPP2016-047 Hall Thruster Development for All-electric Propulsion Satellite and Deep Space Explorers Ikkoh Funaki (JAXA), Shigeyasu Iihara (IA), Shinatora Cho, Kenichi Kubota (JAXA), Watanabe Hiroki (TMU), Kenji Fuchigami, Yosuke Tashiro (IHI)	AJCPP2016-109 GCH4-Air Flame Characteristics of a Pintle Injector Designed for Liquid Rocket Engines in Atmospheric Condition Min Son, Kijeong Yu, Kanmaniraja Radhakrishnan, Jaye Koo (Korea Aerospace University)
10:20~10:40	Coffee Break				
Session Chair C0-chair	A-6:Rocket Engine Technology 1 Yutaka Ito (Tokyo Institute of Technology)	B-6:Fluid Dynamics 2 Akiko Matsuo (Keio University) Kuisoon Kim (Pusan National University)	C-6:Hypersonic Transport Propulsion 2 Shinji Nakaya (The University of Tokyo)	D-6:OS Electric propulsion: Hall thruster Satoshi Hosoda (JAXA) Naoji Yamamoto (Kyushu University)	E-6:Hybrid Rocket 2 Moongeun Hong (KARI)
10:40~11:00	AJCPP2016-139 Design and performance comparison of centrifugal and mixed flow compressors with large flow coefficient Yonghong Tang, Zhiheng Wang, Huijing Zhao, Guang Xi (Xi'an JiaoTong University)	AJCPP2016-070 Study of the Velocity Profile in Turbulent Boundary Layer over Flat Plate using PIV Measurements at Mach 3 Hyuk Lee, Young Ju Kim, Yung Hwan Byun, Soo Hyung Park (Konkuk University)	AJCPP2016-145 Design of a Hypersonic Inlet without Concentration of Strong Oblique Shock Waves Hideki Sawada, Tetsuya Sato (Waseda University)	AJCPP2016-086 Effect of Magnetic Field Configuration on Thrust Efficiency in Anode layer type Hall Thrusters Yusuke Egawa, Naoji Yamamoto, Kohei Takase, Tomohiro Ichimaru, Hirotaka Fuchigami, Taichi Morita, Hideki Nakashima (Kyushu University)	AJCPP2016-021 Experimental Investigation of Gas Nitrous Oxide/Paraffin Hybrid Gas Generator for Ducted Rocket Sunghoon Ryu, Seongjoo Han, Kyehwan Kim, Jinkon Kim, Heejang Moon (Korea Aerospace University), Junhyung Kim, Seung Won Ko (Agency for Defense Development)
11:00~11:20	AJCPP2016-140 Effect of impeller trailing tip clearance flow on the vaned diffuser stall and the casing treatment Tang Yonghong, Wang Zhiheng, Zhao Huijing, Xi Guang (Xi'an Jiaotong University)	AJCPP2016-071 Study of the Velocity Profile in Transition Boundary Layer over Flat Plate using Particle Image Velocimetry at M=3 Young Ju Kim, Hyuk Lee, Yung Hwan Byun, Soo Hyung Park (Konkuk University)	AJCPP2016-015 Study on Unsteady Rayleigh Flows Rajarshi Das, Lee IkIn, Vignesh Ram (Andong National University), Toshiaki Setoguchi (Saga University), Heuy-Dong Kim (Andong National University)	AJCPP2016-172 Magnetic Shielded Annular Hall Thruster with Magnetic Circuits Seunghun Lee, Holak Kim, Youbong Lim, Wonho Choe (KAIST)	AJCPP2016-046 Development of Hybrid Rocket Motor Design and Performance Code Nazmi Erdi Coskunpinar, Kaan Ozen, Stanislav Grate, Alim Rustem Aslan (Istanbul Technical University)

Room	Room A	Room B	Room C	Room D	Room E
11:20~11:40	AJCPP2016-185 Research on blade shape optimization of centrifugal impeller using adjoint method Jia Yu, Lucheng Ji (Beijing Institute of Technology), Hongying Ke, Weiwei Li, Weilin Yi (Chinese Society of Engineering Thermophysics),	AJCPP2016-094 Effect of base bleed on the drag reduction of projectile in supersonic flow Man Chul Jeong, Ji Hyun Park, In-Seuck Jeung (Seoul National University), Hyoung Jin Lee (LIG Nex1)	AJCPP2016-023 Pressure Modeling in Turbulent Supersonic Combustion Foluso Ladeinde (State University of New York Korea), Zhipeng Lou (Stony Brook University)	AJCPP2016-029 PV Parameters Estimation Using a Developed Iterative Method Tarek M. El-Sayed, Abd El-Shafy A. Nafeh, Faten H. Fahmy (Electronics Research Institute), Hosam K.M. Yousef (Cairo University)	AJCPP2016-079 Regression rate of a Swirling-injection End-Burning Hybrid Rocket Engine using Paraffin-based Fuels Yuya Oishige, Daiki Hayashi, Takashi Sakurai (Tokyo Metropolitan University)
11:40~12:00		AJCPP2016-040 An Experimental Setup for Analysis and Validation of Materials for Thermal Protection Systems using Plasma Wind Tunnel Rajesh Kumar Chinnaraj, Gysang Park, Sunmi Kim, Hana Jo, Philyong Oh, Seongman Choi (Chonbuk National University)	AJCPP2016-103 IDDES of a Hydrogen Combustion in a Model Scramjet Combustor using High-Order Spatial Discretization Junsu Shin, Hong-Gye Sung (Korea Aerospace University)		AJCPP2016-095 Feasibility Study of Pre-Burner Lox Vaporization for Swirl Injection Hybrid Rocket Engine Genki Mishima, Koki Kitagawa, Toru Shimada (JAXA)
12:00~13:00	Lunch time				
Session Chair C0-chair	A-7:OS More Electric Engine and Electric Propulsion for Aircraft Naoki Seki (IHI)	B-7:Non-Chemical Propulsion 2 Kimiya Komurasaki (The University of Tokyo)	C-7: Combustion Technology 1 Mitsumasa Makida (JAXA)	D-7:Rocket Engine Technology 2 Takeshi Kanda (JAXA)	E-7:Jet Engine Technology 2 Takehiro Himeno (The University of Tokyo)
13:00~13:20	AJCPP2016-031 Development of Electric Propulsion System for a High Altitude Solar UAV Keun-Bae Kim, Poomin Park, Bohwa Lee (Korea Aerospace Research Institute)	AJCPP2016-116 Performance and Thermal Characteristics of Low-Power DC Arcjet Thrusters with Radiation-Cooled Anodes for Low-Toxicity Propellants Suguru Shiraki, Yuki Fukutome, Fumihiko Inoue, Katsuya Shimogaito, Takashi Nakanishi, Hirokazu Tahara, Kyoko Takada (Osaka Institute of Technology), Yuichiro Nogawa (Splije)	AJCPP2016-035 Investigation of One Dimensional Nozzle Damping Characteristics for Combustion Instability Suppression Seunghyun Ryoo, Junseong Kim, Seongmin Joo, Hakchul Kim, Honggye Sung, Heejang Moon (Korea Aerospace University), Dohyung Lee (Agency for Defense Development)	AJCPP2016-188 Effect of Multi-row vaned Diffusers on the Performance of A Centrifugal Compressor Stage Yanjie Zhao, Feilong Dang, Jin Xiong, Jingyin Li (Xi'an Jiaotong University),	AJCPP2016-158 Study on Variable Cycle Aero-engine Operation under the Flight Condition Asahi Owan, Naoki Akiyama (Tokyo University of Agriculture and Technology), Yoshitaka Fukuyama, Takashi Yamane (JAXA)
13:20~13:40	AJCPP2016-032 Flight Test of High Altitude Solar UAV's Electric Propulsion System P. M. Park, B. H. Lee, K. B. Kim (Korea Aerospace Research Institute)	AJCPP2016-164 Development of 1A-class Microwave Discharge Cathode Yoshitaka Tani (The University of Tokyo), Ryudo Tsukizaki (JAXA), Daiki Koda (The University of Tokyo), Kazutaka Nishiyama, Hitoshi Kuninaka (JAXA)	AJCPP2016-059 Simultaneous Optical Ignition and Spectroscopy of a Two-Phase Spray Flame for Feedback Control Seok Hwan Lee (Korea Research Institute of Standards and Science), HyunWoo Kim, Hyungrok Do, Jack J. Yoh (Seoul National University)	AJCPP2016-090 Analytical Study of Drive Mechanism for Multi-Axis Pintle Thrusters Jaecheong Lee, Hwanil Huh, Hosung Lee (Chungnam National University)	AJCPP2016-041 Engine Cycle Analysis of the Combined Tip Jet Rotorcraft HaNa JO, SunMi Kim, Seong Man Choi (Chonbuk National University), Hyemin Kim, Gyaebyeung Yang (Agency for Defense Development)
13:40~14:00	AJCPP2016-064 Potential of SOFC-Hybrid Propulsion for Electric Aircraft Keiichi Okai, Atsushi Tateishi, Yasunori Sakuma, Takehiro Himeno, Toshinori Watanabe, Tomohiro Yokozeiki (The University of Tokyo), Hiroshi Nomura (Nihon University), Takeshi Tagashira, Akira Nishizawa (JAXA)	AJCPP2016-168 Measurements of the Ion Beam Accelerated from a Negative Ion Thruster Using Fullerene Propellant Daiki Koda (The University of Tokyo), Hitoshi Kuninaka (JAXA)	AJCPP2016-096 An Investigation into the Combustion Characteristics of Hydrocarbon Liquid-fuel Spray Generated by Ultrasonic Atomization Min Sung Kim, Seong Hun Bae, Jeong Soo Kim (Pukyong National University), Hyuk Soo Jeon, Chul Hyon Park (Agency for Defense Development)	AJCPP2016-136 A Visualization of the Gas-Liquid Swirl Coaxial-Injector Spray by Schlieren Photography SeongHun Bae, MinSung Kim, JeongSoo Kim (Pukyong National University), HyuckSoo Jeon, ChulHyun Park (Agency for Defense Development)	AJCPP2016-039 An Experimental Study of the Infrared Signal Measurement using a Micro Turbo Jet Engine Gysang Park, Sunmi Kim, Seongman Choi (Chonbuk National University), Woncheol Kim (Agency for Defense Development)
14:00~14:20	AJCPP2016-106 Fabrication of Lab-scale Tubular Solid Oxide Fuel Cell for Basic Research on Fuel Cell - Gas Turbine Combined Electric Generator for Airplane Daisuke Shimizu, Hiroshi Nomura, Yusuke Suganuma (Nihon University), Keiichi Okai (The University of Tokyo), Takeshi Tagashira, Akira Nishizawa (JAXA)		AJCPP2016-183 Temperature and Emittance Measurements of Kerosene Flame based on Radiation Spectroscopy Yang Bin, Gui Xinyang, Ping Li, He Yuan (University of Shanghai for Science and Technology), Li Fang (Beijing Institute of Aerospace System Engineering), Cai Xiaoshu (University of Shanghai for Science and Technology)		
14:20~14:40	Coffee break				

Room	Room A	Room B	Room C	Room D	Room E
Session Chair C0-chair	A-8:OS More Electric Engine and Electric Propulsion for Aircraft Keiichi Okai (The University of Tokyo)	B-8:Turbine Technology Takashi Yamane (JAXA)	C-8:Fluid Dynamics 3 Seiji Tsutsumi (JAXA)	D-8: Combustion Technology 2 Chihiro Inoue (The University of Tokyo)	E-8: Rocket Engine Kazuyuki Yada (JAXA)
14:40~15:00	AJCPP2016-126 Development and Flight Demonstration of Regenerative Electric Propulsion System for Aircraft Application Akira Nishizawa, Hiroshi Kobayashi (JAXA), Hiroshi Fujimoto (The University of Tokyo)	AJCPP2016-081 Turbine Performance driven by a Pulse Detonation Combustor for Micro Gas Turbines Takashi Sakurai, Hiroto Takahashi, Yuki Hirai (Tokyo Metropolitan University)	AJCPP2016-162 Numerical Simulation of Boundary Layer Relaminarization in Supersonic Expansion Flow Hiroki Sanada, Susumu Teramoto, Koji Okamoto (The University of Tokyo)	AJCPP2016-093 A Numerical Investigation of the Thermal Flow in an Axisymmetric Catalytic Combustor with Detailed Surface Chemistry Kumaresh Selvakumar, Man Young Kim (Chonbuk National University)	AJCPP2016-068 Extended Tsiolkovskii Equation and its Application to Study on TSTO with RBCC Takeshi Kanda, Kouichiro Tani, Kouichi Takasaki (JAXA)
15:00~15:20	AJCPP2016-167 Development of Motor-Driven Fuel System for More Electric Engine Naoki Seki (IHI)	AJCPP2016-159 Influence of Radial locations of Inlet Hot Streak on Aero-Thermal Performance of a 1-1/2 Stage Gas Turbine Chen Zhang, Zhiduo Wang, Zhaofang Liu, Zhenping Feng (Xi'an Jiaotong University)	AJCPP2016-049 Numerical Analysis on Thrust Performance of Truncated External Nozzle Ryo Mikoshiba, Akiko Matsuo (Keio University), Tatsushi Isono (Tohoku University), Sadatake Tomioka (JAXA)	AJCPP2016-104 Large Eddy Simulation of Supercritical Combustion of Oxygen and Kerosene of Coaxial Shear Injector J. S. Kang, H.G. Sung (Korea Aerospace University),	AJCPP2016-123 Integrated Mission, Sizing, and Design Process for LEO Rockets Development Jin-Wook Kim, Jae-Woo Lee, Sangho Kim (Konkuk University)
15:20~15:40		AJCPP2016-077 Numerical Investigation of Nozzle Clocking Effect in 2-Stage Axial Flow Turbine Ryuta Tanaka, Hiroshi Hamazaki, Masaaki Hamabe, Mizuho Aotsuka, Ruriko Yamawaki (IHI)	AJCPP2016-084 Influence of splitter blades of turbo on flow character of bladeless fan Hongya Mao, Peifeng Lin, Zhe Lin, Yanping Wang, Yingzi Jin (Zhejiang Sci-Tech University), Toshiaki Setoguchi (Saga University), Heuy Dong Kim (Andong National University)	AJCPP2016-163 Effects of Atomization on Emissions in Reverse Flow Flame Stabilized Combustion Takumi Hiroi, Takumi Saitou, Takafumi Nakasu, (Hosei University), Hideshi Yamada (JAXA), Shigeru Hayashi (Hosei University)	AJCPP2016-125 Study of Methane Fuel Rocket Engine Cycles Takeshi Kanda, Masaki Sato, Toshiya Kimura, Hiroya Asakawa (JAXA)
15:40~16:00		AJCPP2016-181 Effects of Inlet Rotating Flow on Leading Edge Film Cooling in Double-passage Turbine Linear Cascades Yang Zhang, Yifei Li, Xin Yuan (Tsinghua University)			AJCPP2016-080 Design and Sizing of Microwave Rocket Proposed for First Stage Rocket of Conventional Chemical Rocket Masafumi Fukunari, Kimiya Komurasaki, Yusuke Nakamura, Hiroyuki Koizumi (The University of Tokyo)
16:00~16:20	Break				
	Room A L-2:Keynote Speech Prof. Mitsuhiro Tsue (The University of Tokyo)				
16:20~17:00	AJCPP2016-S02 Climbing up the global sky, Kawasaki innovative Technologies Mr. Yasuhiro Kinoshita(KHI)				
17:00~17:40	AJCPP2016-S03 Propulsion Systems For Korean Lunar Exploration Program Prof. Yung hwan Byun (Konhuk University)				
17:40~18:20	AJCPP2016-S04 Flow control technique in compressor and turbine Prof. Bo Liu (Northwestern Polytechnic University)				
18:20~19:00	Break				
19:00~21:00	Banquet (Hiten, JR Hotel Clement Takamatsu)				