

Opening Ceremony of the UW-TU: AOS

Memorial Workshop on Next Generation Transport Aircraft: April 12-13, 2017

Memorial Symposium: 3:00-5:00 April 13, 2017

Signing Ceremony of AOS and Reception: April 14, 2017

Reception: 2:00-4:00 April 14, 2017

April 12 (Wed.)

<p>13.00 - 17.00</p> <p><i>HUB Room-250, UW</i></p> <p><i>Chair : Prof.Okabe</i></p> <p><i>Chair : Dr.Odagiri</i></p>	<h3 style="text-align: center;">Memorial Workshop on Next Generation Transport Aircraft</h3> <ul style="list-style-type: none"> ● Numerical simulation and analysis for cost effective aircraft design <ul style="list-style-type: none"> - Title: Introduction of “Development of Numerical Simulation Methods for Cost-Effective Aircraft Design” Speaker: Shigeru Obayashi (Director, Institute of Fluid Science, Tohoku University) (25min) - Title: High-fidelity numerical simulation of airfoil flows at non-cruise high Reynolds number conditions Speaker: Soshi Kawai (Associate Professor, Department of Aerospace Engineering /, Co-director, Next Generation (Jisedai) Aircraft Research Center Tohoku University) (25min) - Title: Experimental testing and optimization of tow-steered composites Speaker: Ryosuke Matsuzaki (Junior Associate Professor, Department Mechanical Engineering, Tokyo University of Science) (25min) - Title: Analytical evaluation of impact damage in circular laminates Speaker: Hiroshi Suemasu (Professor, Department of Engineering and Applied Sciences, Sophia University) Break (20 min) ● Composite Materials <ul style="list-style-type: none"> - Title: Effects of the Manufacturing Process on AFP composites Speakers: Dr. Paul Davidson (University of Washington) Nobuyuki Arai or Don Lee (Toray Composite Materials America, Inc.) (30min)
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	<ul style="list-style-type: none"> - Title: Effects of Moisture Diffusion on Sandwich Composites Speaker: Mark Tuttle (Director, AMTAS Department of Mechanical Engineering, University of Washington) (30min) - Title: Opportunities and Challenges for Polymer Matrix Composites in Aerospace” Speaker: Tia Benson Tolle (Director, Materials and Fabrication Boeing Commercial Airplanes, Product Development) (30min) <p>Break(30min)</p>
17.00 - 19.00 <i>HUB Room-250, UW</i>	<p>Poster Session on Composite Materials for Aircraft and Aero Space Engineering</p> <p>Title: Determination of the Elastic Constants of CFRP Using Resonant Ultrasound Spectroscopy Presenter: Go Yamamoto (Associate Professor, Tohoku University)</p> <p>Title: Continuum damage mechanics modeling of PMC laminates including transverse cracks Presenter: Sota Onodera (Graduate student, Tohoku University)</p> <p>Title: An attempt to extend skew-symmetric forms to modal discontinuous Galerkin Schemes Presenter: Hiroyuki Asada (Graduate student, Tohoku University)</p> <p>Title: Multiscale Modeling for Evaluation of Free-Surface Effect on Crack Formation in Carbon Fiber-Reinforced Composites Presenter: Yuta Kumagai (Graduate student, Tohoku University)</p> <p>Title: Multiscale Plasticity Modeling on Mechanical Anisotropy of Advanced Materials Presenter: Yoshiteru Aoyagi (Associate Professor, Tohoku University)</p> <p>Title: Curved fiber laminating device for processing of tow-steered composites Presenter: Atsushi Shinoda (Graduate student, Tokyo University of Science)</p> <p>Title: Some Novel Approach for Strength Improvement of Composite T-Joints Presenter: Shinsaku Hisada (Graduate Student, The University of Tokyo)</p>

April 13 (Thu.)

<p>09.00 – 12:00</p> <p><i>HUB Room-250, UW</i></p> <p><i>Chair : Prof.Obayashi</i></p>	<p>Memorial Workshop on Composite Materials for Aircraft and Aero Space Engineering</p> <ul style="list-style-type: none">● Cross - ministerial Strategic Innovation Promotion Program (SIP) : Innovative Materials for Structure Program- Title: Further Development of High Rate Production Innovative Aircraft CFRP and Quality Assurance Technology Speakers: Nobuo Takeda and Akira Hamamoto (TJCC, The University of Tokyo) (30min)- Title: Motivation, Status and challenges - Tough and high volume production-ability CFRP development Speaker: Toshio Abe (Churyo Engineering Co., Ltd.) (30min)- Title: Multiscale Simulation of CFRP Considering Geometrical Imperfection Speaker: Akinori Yoshimura (JAXA) (30min)Break(30min)- Title: Optical Fiber Based Intelligent Process Monitoring and Modeling of CFRP Structures Speakers: Nobuo Takeda and Shu Minakuchi (TJCC, The University of Tokyo) (30min)- Title: Impact Damage Simulations on Composite Laminates Speakers: Anthony Waas and Solver Thorsson (William E Boeing Department of Aeronautics and Astronautics, University of Washington)(30min)
<p>12.00 – 13:00</p> <p><i>TBC</i></p>	<p>Lunch</p>

<p>15:00 – 17:15</p> <p><i>HUB Room-250, UW</i></p> <p><i>Moderator Prof. Ohuchi</i></p> <p><i>TOTAL 125~135min</i></p>	<p>UW-TU:AOS Opening Memorial Symposium</p> <p>(First Half-Total 54 min talk: 57+3=60 min)</p> <ul style="list-style-type: none"> ● <u>Welcome Address</u> <ul style="list-style-type: none"> - Prof. Susumu Satomi, President, Tohoku University (3 min) - Dean of College of Engineering, Michael Bragg, University of Washington (3 min) - Dean of College of Engineering, Hirotugu Takizawa, Tohoku University (3 min) - Toray Composite Materials America, Inc. Vice President, Nobuyuki Odagiri (3min) ● <u>TU Globalization and collaboration with US</u> <ul style="list-style-type: none"> - Prof. Toshiya Ueki, Executive Vice President, Tohoku University (5 min) ● <u>Goals and Roles of UW-TU:AOS</u> <ul style="list-style-type: none"> - Prof. Fumio Ohuchi, Interim Chair of Materials Science and Engineering, University of Washington (10 min) ● <u>Keynote Speech:</u> Japan's National Project "Cross-ministerial Strategic Innovation Promotion Program" and UW-TU:AOS <ul style="list-style-type: none"> - Prof. Nobuo Takeda, International Initiatives Organization, Tohoku University / Director, TJCC, the University of Tokyo and Masahiro Takemura, SIP Director, Structural materials for Innovation, Japan Science and Technology Agency (JST) (30 min) <p>(Second Half-Total 56 min talk: 56+9=65 min)</p> <ul style="list-style-type: none"> ● <u>UW-TU:AOS's Strategic Development in Education and Research</u> Education and Information Exchange <ul style="list-style-type: none"> - Prof. Kyosuke Yoshimi, Graduate School of Engineering, Tohoku University (8 min) ● <u>Research Matching in Energy Systems for Transportation</u> <ul style="list-style-type: none"> - Prof. Shigeru Obayashi, Director, Institute of Fluid Science, Tohoku University (8 min) - Prof. Dan Schwartz, Clean Energy Institute, Director, Chemical Engineering Department, University of Washington (8min) ● <u>Research Matching in Next Generation Airplane and Space Technology</u> <ul style="list-style-type: none"> - Prof. Anthony Waas, Aerospace and Astronautics Department, University of Washington (8 min) - Prof. Kristi Morgansen, Space Research Center, Aerospace and Astronautics Department, University of Washington (8 min)
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	Research Matching in Natural Hazard and Disaster Engineering <ul style="list-style-type: none"> - Prof. Yamaguchi, Tohoku University, representing Int. Res. Inst. of Disaster Science (IRIDeS) (8min) - Prof. Laura L Lowes, University of Washington, Natural Hazard Engineering (8 min) VIP dinner (Invitation only)
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April 14(Fri.)

10.00 – 10:30 <i>Gerberding Hall Conference room</i> <i>(No Public)</i>	UW-TU: AOS Signing ceremony <ul style="list-style-type: none"> • Address <ul style="list-style-type: none"> - Prof. Ana Mari Cauce, President of UW - Prof. Susumu Satomi, President of TU - Mr. Masahiro Omura, Consul General of Japan in Seattle - Prof. Toru Tamiya, Director of JSPS San Francisco Office • MOU signing • Gift Exchange • Group photo <p><i>*Moderator: Vice Provost Jeffrey Riedinger , UW</i></p>
	<ul style="list-style-type: none"> - Walk in the campus and visit AOS - Lunch at the Faculty Club - Transfer to the Official Residence of Consul General of Japan
14.00 - 16.00 <i>Official residence of Consul General of Japan</i> <i>Address: 23 Highland Drive Seattle, WA 98109</i> <i>(Invitation Only)</i>	UW-TU:AOS Reception . <ul style="list-style-type: none"> • Address <ul style="list-style-type: none"> - Mr. Masahiro Omura, Consul General of Japan in Seattle - Prof. Susumu Satomi, President of TU - Prof. Greg Miller, Vice Dean of the University of Washington, College of Engineering - Mr. Brian Bonlender, Director of Washington State Department of Commerce • Toast <ul style="list-style-type: none"> - Mr. Moriyuki Onishi, President and CEO of Toray Composite Materials America • AOS introduction <ul style="list-style-type: none"> - Prof. Fumio Ohuchi, UW <p><i>*Moderator: Associate Executive Vice President Masahiro Yamaguchi , TU</i></p>