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| *Opening Ceremony of the UW-TU: AOS*  *(N-1 version)*  *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 13, 2017* | |
| **April 12 (Wed.)** | |
| 13.00 - 17.00  *HUB Room-250, UW*  *Chair：Prof.Okabe*  *Chair：Dr.Odagiri* | **Memorial Workshop on Next Generation Transport Aircraft**   * **Numerical simulation and analysis for cost effective aircraft design** * Opening remarks   Takuma Takahashi  (Deputy Director of Aerospace and Defense Industry Division, Ministry of Economy, Trade and Industry, Japan) (5min)   * 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 (15 min)   * **Composite Materials** * Title: Effects of the Manufacturing Process on AFP composites   Speakers: Dr. Paul Davidson  ( University of Washington)  Nobuo Arai or Don Lee  (Toray Composite Materials America, Inc.) (60min)   * 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) |
| 17.00 - 19.00  *HUB Room-250, UW* | **Poster Session on Composite Materials for Aircraft and Aero Space Engineering**  Title: Determination of the Elastic Constants of CFRP Using Resonant Ultrasound Spectroscopy  Presenter: Go Yamamoto  (Associate Professor, Tohoku University)  Title: Continuum damage mechanics modeling of PMC laminates including  transverse cracks  Presenter: Sota Onodera  (Graduate student, Tohoku University)  Title: An attempt to extend skew-symmetric forms to modal discontinuous  Galerkin schemes  Presenter: Hiroyuki Asada  (Graduate student, Tohoku University)  Title: Multiscale Modeling for Evaluation of Free-Surface Effect on Crack Formation in Carbon Fiber-Reinforced Composites Presenter: Yuta Kumagai (Graduate student, Tohoku University)  Title: Multiscale Plasticity Modeling on Mechanical Anisotropy of Advanced Materials Presenter: Yoshiteru Aoyagi (Associate Professor, Tohoku University)  Title: Curved fiber laminating device for processing of tow-steered composites Presenter: Atsushi Shinoda (Graduate student, Tokyo University of Science)  - Title: Some Novel Approach for Strength Improvement of Composite T-Joints Presenter: Shinsaku Hisada (Graduate Student, The University of Tokyo) |
| **April 13 (Thu.)** | |
| 09.00 – 12:00  *HUB Room-250, UW*  *Chair：Prof.Obayashi* | **Memorial Workshop on Composite Materials for Aircraft and Aero Space Engineering**   * **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) |
| 12.00 – 13:00  *TBC* | Lunch |
| **15:00 – 17:15**  *HUB Room-250, UW*  *Moderator*  *Prof. Ohuchi*  *TOTAL 125~135min* | **UW-TU:AOS Opening Memorial Symposium**  (First Half-Total 54 min talk: 57+3=60 min)   * **Welcome Address**   - 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, Hirotsugu Takizawa, Tohoku  University (3 min)  - Toray Composite Materials America, Inc. Vice President,  Nobuyuki Odagiri (3min)   * **TU Globalization and collaboration with US**   - Prof. Toshiya Ueki, Executive Vice President, Tohoku University (5 min)   * **Goals and Roles of UW-TU:AOS**   - Prof. Fumio Ohuchi, Interim Chair of Materials Science and Engineering, University of Washington (10 min)   * **Keynote Speech:**   **Japan’s National Project “Cross-ministerial Strategic Innovation**  **Promotion Program” and UW-TU:AOS**   * 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)    (Second Half-Total 56 min talk: 56+9=65 min)   * **UW-TU:AOS’s Strategic Development in Education and Research**   **Education and Information Exchange**   * Prof. Kyosuke Yoshimi, Graduate School of Engineering, Tohoku University (8 min)   **Research Matching in Energy Systems for Transportation**   * 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)   **Research Matching in Next Generation Airplane and Space Technology**   * 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)   **Research Matching in Natural Hazard and Disaster Engineering**   * 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 |
| **April 14 (Fri.)** |  |
| 10.00 – 10:30  *Gerberding Hall Conference room*  *No Public* | **UW-TU: AOS Signing ceremony**   * Address * 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   *\*Moderator: Vice Provost Jeffrey Riedinger , UW* |
|  | - 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  *Official residence of Consul General of Japan*  *Address:*  *23 Highland Drive*  *Seattle, WA 98109* | **UW-TU:AOS Reception**  *Official residence of Consulate General of Japan in Queen Ann.*   * Address * Mr. Masahiro Omura, Consul General of Japan in Seattle * Prof. Susumu Satomi, President of TU * VIP invited by Consulate General of Japan in Seattle * Toast   - VIP (Toray would be preferable) invited by TU   * AOS introduction * Prof. Fumio Ohuchi, UW   *\*Moderator: Associate Executive Vice President Masahiro Yamaguchi , TU* |