March 28th at Talaris Conference Center, Cedar Room

# Next Generation Transport Aircraft Workshop 2014

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| 8:50 | **Welcome and Introductions** | Shigeru Obayashi, Tohoku University<br>Tomonaga Okabe, Tohoku University |
| **Boeing Higher Education Program Research Project Presentation** 5min Q&A for each | | |
| 9:00 | Model Experiment of Sonic Boom Signature Propagation through Turbulence in a Ballistic Range | Takahiro Ukai, Tohoku University |
| 9:20 | Unsteady Flow Calculation Using Implicit Method on a Moving Unstructured Grid | Yuta Sawaki, Tohoku University |
| 9:40 | Data Assimilation Method for CFD/EFD Integration | Chen Fang, Tohoku University |
| 10:00-10:15 Refreshment Break | | |
| **Computational Aeroacoustics Invited Lectures** | | |
| 10:15 | Numerical Simulation of Noise Propagation around Aircraft Based on Cartesian Mesh Method | Yuma Fukushima, Tohoku University |
| 10:45 | From Technology to the Airplane: The Quiet Technology Demonstrators | Takao Suzuki, The Boeing Company |

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| **Next Generation Transport Aircraft Research Center Presentation** 5min Q&A for each | | |
| 11:15 | Opening remarks | Tomonaga Okabe, Tohoku University<br>Mark Tuttle, University of Washington |
| 11:20 | Multi-scale Modeling of Fiber-reinforced Plastic Composites | Tomonaga Okabe, Tohoku University |
| 11:50 | Developing & Proving Advanced Composite Applications | Tia Benson Tolle, The Boeing Company |
| **12:20-13:15 BHE Student's Poster & Presentation, Informal Lunch** | | |
| 13:15 | Indentation Response and Damage Monitoring of Foam-Core Sandwich Structures | Nobuo Takeda, The University of Tokyo |
| 13:45 | Thermal Analysis and its Applications in Aerospace Composite Materials | Joy Wu, Pinnacle Materials Laboratory |
| 14:15 | Strains Induced in a Pressurized Composite Dome with Complex Stacking Sequence | Mark Tuttle, University of Washington |
| 14:45-15:00 Refreshment Break | | |
| 15:00 | Application of the eXtended Finite Element Method to Virtual Testing of Composite | Toshio Nagashima, Sophia University |
| 15:30 | Delamination Arrest by Multiple Fasteners in Bonded Composite Structures | Kuen Lin/Luke Richard, University of Washington |
| 16:00 | Statistical Prediction of Tensile Creep Failure Time for Unidirectional CFRP | Yasushi Miyano, Kanazawa Inst. of Technology |
| 16:30 | **Concluding Comments** | Tomonaga Okabe, Tohoku University |