

Conference Schedule

Time Table	Room1	Room2
10:00 ~ 10:15	Opening Software Cradle Co., Ltd. President Ichiro Komada	
10:20 ~ 11:20	SP <i>【Special Lecture】</i> Wright State University Dr. Geoge P.G. Huang 『From insects to MAV – the next challenge in aerodynamic designs』	
11:25 ~ 12:00	T-1 <i>【SC/Tetra/STREAM】</i> Software Cradle Co., Ltd. 『Latest News of our products』 Abstract of applications released/will be release this year and our future schedule of development.	
12:00 ~ 13:00	Lunch	
13:00 ~ 13:40	A-1 <i>【SC/Tetra】</i> ISUZU MOTORS LIMITED 『Introduction to the utilization status of SC/Tetra in engine equipment designing department of Isuzu Motors Limited.』 Engine equipment designer in Isuzu Motors uses SC/Tetra to review port or water jaket configuration. The desingers automatized the design process by combining CAD to design themselves. They coupled the optimization software with SC/Tetra to obtain optimal configuration efficiently. Examples of accuracy validation, automation and optimization in SC/Tetra are introduced.	B-1 <i>【STREAM】</i> Panasonic Corporation 『Approach to heat analysis of LSI/PKG/PCB』 PE Technology developers of Panasonic Corporation promote developing advanced technologies of heat analysis of LSI(Semiconductor chip), PKG(Semiconductor component) and PCB(PC board). 1) Detailed heat analysis technology of PCB considering wiring density and directionality. 2)simple heat analysis technology of PKG selection and 3)detailed heat analysis technology of LSI are released.
13:45 ~ 14:25	A-2 <i>【SC/Tetra】</i> TOYOTA MOTOR CORPORATION 『Development of Thermal Management Analysis of Engine Room and Under Floor』 This presentation describes a developed simulation of vehicle thermal management and the analysis method of its result. The analysis method is able to show the total input and output of heat flow of a component in engine room and under floor in each mode of conduction, radiation and convection, and to show the detail of heat flows between a component and its surroundings in mode of condition and radiation.	B-2 <i>【SC/Tetra】</i> SANYO Electric Co.,Ltd. 『Case study of SC/Tetra in Projector Design』 The cooling technology is very important in development of the projector. To shorten development time on design accuracy, SC / Tetra is essential for front-loading design process, I will introduce our case study.
14:25 ~ 14:45	Break	
14:45 ~ 15:15	S-1 <i>【Sponsor Session】</i> ALTAIR ENGINEERING, LTD. 『Introduction to SC/Tetra analysis examples using Altair HyperWorks』 Altair HyperWorks is a software adopted revolutionary tokenized license management system for the first time in the CAE industry. The other company products, which are registered with partner alliance including HyperWorks and SC/Tetra, can be used using tokenized license of HyperWorks. In the lecture, analysis example of combination of HyperWorks and SC/Tetra is introduced.	S-2 <i>【Sponsor Session】</i> Microsoft Corporation 『Introduction to next-generation HPC environment, "Windows HPC Server 2008 R2"』 Microsoft focuses on better improvement of High Performamnce Computing(HPC) after the release of Windows HPC Server 2008 R2. New features such as benefits in Windows, feasible Windows7 Desktop Grid with R2, Excel High Speed, and supported CAE application are introduced.
15:20 ~ 15:50	T-2 <i>【SC/Tetra】</i> Software Cradle Co., Ltd. 『Analysis of Free surface (VOF method) using full cavitation model and assembly grid』 In this lecture, cavitation model and free surface(VOF method) using assembly grid, which are new functions in V9, are introduced. New features, cavitation model, full cavitation mode and free surface (VOF method), are added in SC/Tetra and introduced with examples and their brief overview.	T-3 <i>【STREAM】</i> Software Cradle Co., Ltd. 『Introduction to multiphase flow analysis using MARS method』 Function of multiphase flow analysis(MARS method) in STREAM is nearly a decades into the UNIX(STREAM 2.11/3.11) since 1999 and utilied in various flow fields or scale. Few examples with the feature and features to be included in future releases are introduced.
15:50 ~ 16:10	Break	
16:10 ~ 16:50	C-1 <i>【SC/Tetra】</i> ORIENTAL MOTOR CO., LTD. 『Presentation of the new book of fluid dynamics, which is intelligible by using CradleViewer.』 I will introduce the new book published in April. This book aimed to be intelligible by using CradleViewer. In this session, I will also introduce the following topics that were not referred in the book. 1. Visible images of Navier Stokes equation	D-1 <i>【STREAM】</i> The University of Kitakyushu 『Coupled Simulation Tool of CFD Analysis and HVAC System』 Air-conditioning performance simulator utilizing the coupled simulation tool of HVAC system simulation and CFD analysis was proposed. The prediction accuracy of this tool was verified by comparison of simulation and experimental results for an office space. Case study based on coupled simulation supposing the fault was conducted. According to the result of the case study, this simulator reproduced the properties of both HVAC
16:55 ~ 17:35	C-2 <i>【SC/Tetra】</i> SANDEN CORPORATION 『CFD (computational fluid dynamics) technology development of a scroll compressor.』 The compression chamber of a scroll compressor changes in volume while moving. It has been assumed difficult to forecast the behavior of the fluid inside. In this lecture, the case is introduced in which fluid behavior among the scroll compressor compression process is forecast by analysis using the overset method of SC/Tetra.	D-2 <i>【SC/Tetra/STREAM】</i> TOSHIBA CARRIER.COP 『Examples of CFD in TOSHIBA CARRIER.COP』 Here we introduce two CFD application examples. One is an analysis of bathroom ventilation dryer by STREAM. This is used in upstream design. The other is an analysis of building system air conditioner, Super Flux Module chiller by SCRYT/Tetra.
17:35 ~ 17:45	Closing Address	