TECHNICAL PROGRAM

ORAL PRESENTATION SCHEDULE

APRIL 14 (SUN)

13:00-18:00 Registration Lobby (3F), Convention Hall, B1F(1)

13:00-18:00 Welcome Party Nurimaru APEC House

APRIL 15 (MON)

Chair's Meeting Room 206 (3F)

Opening

Welcome Address Dr. Adam SEBIRIANIK, Chairman, HISST Technical Committee (Multi-TH Consulting, UK)

Keynote Speech Prof. Jeong-Yeol YOO, Head of HISST Conference (Chair) (Korea Advanced Institute of Science and Technology, Republic of KOREA), Korea)

Congratulatory Address Prof. Jeong-Yeol YOO, Head of HISST Conference (Chair) (Korea Advanced Institute of Science and Technology, Republic of KOREA), Korea)

Global Review Chair Dr. Adam SEBIRIANIK (Beach 70, UAE)

09:00-09:20 Korea Prof. Jeong-Yeol YOO (Pusan National University)

09:20-09:40 Australia Prof. Vincent MONTEIL (The University of Tasmania)

09:40-10:00 Brazil Dr. Luiz CLAUDIO DE ALMEIDA BARCELLOS (Petrobras)

10:00-10:20 India Prof. Mohammed Ibrahim SUKARNO (Indian Institute of Technology Madras)

10:20-10:40 China Dr. Huan LIAN (Institute of Mechanics, Chinese Academy of Sciences)

10:40-11:00 Europe Prof. Jakob STOSS (Institute of Fluid Dynamics, European Space Agency)

11:00-11:20 UK Dr. David GLASS (NASA Langley Research Center)

12:20-13:00 Lunch Box For Participants Convention Hall, B1F(1)

14:00-17:00 Exhibition Hall (Convention Hall, B1F(1))

Keynote Speech 1

Chair Prof. Mohammed Ibrahim SUKARNO (Indian Institute of Technology Madras, India)

Co-Chair Dr. Michael DAMPTEY (Lawrence Livermore National Laboratory, USA)

Modern Development in Design of Hypersonic Vehicle

Dr. Michael DAMPTEY (Lawrence Livermore National Laboratory, USA)

Session No.	1	2	3	4	5	6
Session	**ORAL 1**	**ORAL 2**	**ORAL 3**	**ORAL 4**	**ORAL 5**	**ORAL 6**
15:00-15:20	Dr. Adam SEBIRIANIK (Multi-TH Consulting, UK) Dr. Mirsaeed Miran (Sharif University of Technology, Iran)	Dr. Sergey KRASHENINNIKOV (Moscow Aviation Institute, Russia) Prof. Alex Chin WANG (National Cheng Kung University, Taiwan)	Prof. Kazuhiro NAKADASHI (Nagoya University, Japan) Prof. Kaoru MIURA (MCAC, China)	Dr. Ryoji TAKAKI (NASA Ames Research Center, USA) Dr. Mehdi Ghoreyshi (U.S. Air Force Research Laboratory, USA)	Dr. Mark SHAHRABANI (Boeing, USA) Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	Mr. Ghassan ALKANDRY (Saudi Aramco, Saudi Arabia) Prof. Kyoung-Su LEE (INHA, Korea)
15:20-15:40	**MOR01 - 2024 - 2562** Numerical Investigation on Aerodynamic Characteristics of Supersonic Flow Over Various Types of Cavities Dr. Sergey KIM (UNIKMC, Korea)	**MOR02 - 2024 - 447** Numerical Investigation of Supersonic Inlet Dr. Jeong-Jae KIM (KAIST, Korea)	**MOR03 - 2024 - 1109** A Hermite Solver of Supersonic Inviscid Flow Dr. Kaoru MIURA (MCAC, China)	**MOR04 - 2024 - 1127** Experimental Study and Numerical Validation of Aerodynamic Characteristics of the STARDUST-1 MRU Scale Model Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR05 - 2024 - 1147** Experimental Investigation of Aerodynamic Characteristics of Supersonic Flow Over Multi-Step Backward-Facing Ramps Dr. Mark SHAHRABANI (Boeing, USA)	**MOR06 - 2024 - 1148** Experimental Study on Thermal Characteristics of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Application Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
15:40-16:00	**MOR07 - 2024 - 1146** Numerical Simulation and Analysis of Supersonic Flow in Thermo-Chemical Nonequilibrium Dr. Mirsaeed Miran (Sharif University of Technology, Iran)	**MOR08 - 2024 - 1227** Numerical Investigation of Supersonic Combustion Ramjet Engine Dr. Jeong-Jae KIM (KAIST, Korea)	**MOR09 - 2024 - 1228** Numerical Study of High-Speed Flows Around Blunt Bodies Prof. Kaoru MIURA (MCAC, China)	**MOR10 - 2024 - 1229** Experimental Investigation of Supersonic Flow Over Multi-Step Backward-Facing Ramps Dr. Mark SHAHRABANI (Boeing, USA)	**MOR11 - 2024 - 1230** Experimental Study on Thermal Characteristics of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR12 - 2024 - 1231** Experimental Study on the Thermal Characteristics of Supersonic Flow over TBCX(YSZ) Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
16:00-16:20	**MOR13 - 2024 - 1232** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR14 - 2024 - 1233** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR15 - 2024 - 1234** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR16 - 2024 - 1235** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR17 - 2024 - 1236** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR18 - 2024 - 1237** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
16:20-16:40	**MOR19 - 2024 - 1238** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR20 - 2024 - 1239** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR21 - 2024 - 1240** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR22 - 2024 - 1241** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR23 - 2024 - 1242** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR24 - 2024 - 1243** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
16:40-17:00	**MOR25 - 2024 - 1244** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR26 - 2024 - 1245** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR27 - 2024 - 1246** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR28 - 2024 - 1247** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR29 - 2024 - 1248** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR30 - 2024 - 1249** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
17:00-17:20	**MOR31 - 2024 - 1250** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR32 - 2024 - 1251** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR33 - 2024 - 1252** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR34 - 2024 - 1253** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR35 - 2024 - 1254** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR36 - 2024 - 1255** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
17:20-17:40	**MOR37 - 2024 - 1256** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR38 - 2024 - 1257** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR39 - 2024 - 1258** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR40 - 2024 - 1259** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR41 - 2024 - 1260** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR42 - 2024 - 1261** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
17:40-18:00	**MOR43 - 2024 - 1262** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR44 - 2024 - 1263** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR45 - 2024 - 1264** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR46 - 2024 - 1265** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR47 - 2024 - 1266** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR48 - 2024 - 1267** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)

Coffee Break Lobby (3F)

Session No.	1	2	3	4	5	6
Session	**ORAL 7**	**ORAL 8**	**ORAL 9**	**ORAL 10**	**ORAL 11**	**ORAL 12**
18:20-18:40	Dr. Jun SAKAI (Tokyo Metropolitan University, Japan) Dr. Sanae KUMA (JAXA, Japan)	Prof. Ji-Soo YOO (Seoul National University, Korea) Dr. Jeong-Jae KIM (KAIST, Korea)	Prof. Jeong-Yeol YOO (Korea Advanced Institute of Science and Technology, Republic of KOREA), Korea) Dr. Jae-Ung LEE (KAIST, Korea)	Dr. Mihai PALU (Multi-TH Consulting, UK) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Dr. Peter KNOWLING (Boeing, USA) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Dr. Mohamed Ibrahim SUKARNO (Indian Institute of Technology Madras, India) Dr. Jeroen VANZWIETEN (Embraer, Brazil)
18:40-19:00	**MOR49 - 2024 - 1268** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR50 - 2024 - 1269** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR51 - 2024 - 1270** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR52 - 2024 - 1271** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR53 - 2024 - 1272** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR54 - 2024 - 1273** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
19:00-19:20	**MOR55 - 2024 - 1274** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR56 - 2024 - 1275** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR57 - 2024 - 1276** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR58 - 2024 - 1277** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR59 - 2024 - 1278** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR60 - 2024 - 1279** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
19:20-19:40	**MOR61 - 2024 - 1280** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR62 - 2024 - 1281** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR63 - 2024 - 1282** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR64 - 2024 - 1283** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR65 - 2024 - 1284** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR66 - 2024 - 1285** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
19:40-20:00	**MOR67 - 2024 - 1286** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR68 - 2024 - 1287** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR69 - 2024 - 1288** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR70 - 2024 - 1289** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR71 - 2024 - 1290** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR72 - 2024 - 1291** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
20:00-20:20	**MOR73 - 2024 - 1292** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR74 - 2024 - 1293** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR75 - 2024 - 1294** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR76 - 2024 - 1295** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR77 - 2024 - 1296** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR78 - 2024 - 1297** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
20:20-20:40	**MOR79 - 2024 - 1298** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR80 - 2024 - 1299** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR81 - 2024 - 1300** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR82 - 2024 - 1301** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR83 - 2024 - 1302** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR84 - 2024 - 1303** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)
20:40-21:00	**MOR85 - 2024 - 1304** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR86 - 2024 - 1305** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR87 - 2024 - 1306** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR88 - 2024 - 1307** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR89 - 2024 - 1308** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)	**MOR90 - 2024 - 1309** Numerical Investigation of Supersonic Flow Over Various Scale Ceramic Matrix Composite Materials for Thermal Protection System Dr. Ali Ebrahimi (Sharif University of Technology, Iran)

Coffee Break Lobby (3F)

Session No.	1	2	3	4	5	6
Session	**ORAL 13**	**ORAL 14**	**ORAL 15**	**ORAL 16**	**ORAL 17**	**ORAL 18**
21:20-21:40	Dr. Jun SAKAI (Tokyo Metropolitan University, Japan) Dr. Jeong-Jae KIM (KAIST, Korea)	Prof. Kazuhiro NAKADASHI (Nagoya University, Japan) Dr. Sanae KUMA (JAXA, Japan)	Prof. Ji-Soo YOO (Seoul National University, Korea) Dr. Jae-Ung LEE (KAIST, Korea)	Dr. Mihai PALU (Multi-TH Consulting, UK) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Prof. Jeong-Yeol YOO (Korea Advanced Institute of Science and Technology, Republic of KOREA), Korea) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Prof. Alex Chin WANG (National Cheng Kung University, Taiwan) Dr. Jeroen VANZWIETEN (Embraer, Brazil)
21:40-22:00	**MOR91 - 2024 - 1310** Aerodynamics of the Reusable Launch Vehicle Supersonic Retropropulsion System Dr. Jeong-Jae KIM (KAIST, Korea)	**MOR92 - 2024 - 1311** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Sanae KUMA (JAXA, Japan)	**MOR93 - 2024 - 1312** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jae-Ung LEE (KAIST, Korea)	**MOR94 - 2024 - 1313** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR95 - 2024 - 1314** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR96 - 2024 - 1315** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
22:00-22:20	**MOR97 - 2024 - 1316** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR98 - 2024 - 1317** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR99 - 2024 - 1318** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR100 - 2024 - 1319** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR101 - 2024 - 1320** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR102 - 2024 - 1321** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
22:20-22:40	**MOR103 - 2024 - 1322** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR104 - 2024 - 1323** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR105 - 2024 - 1324** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR106 - 2024 - 1325** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR107 - 2024 - 1326** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR108 - 2024 - 1327** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
22:40-23:00	**MOR109 - 2024 - 1328** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR110 - 2024 - 1329** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR111 - 2024 - 1330** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR112 - 2024 - 1331** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR113 - 2024 - 1332** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR114 - 2024 - 1333** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
23:00-23:20	**MOR115 - 2024 - 1334** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR116 - 2024 - 1335** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR117 - 2024 - 1336** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR118 - 2024 - 1337** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR119 - 2024 - 1338** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR120 - 2024 - 1339** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
23:20-23:40	**MOR121 - 2024 - 1340** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR122 - 2024 - 1341** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR123 - 2024 - 1342** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR124 - 2024 - 1343** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR125 - 2024 - 1344** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR126 - 2024 - 1345** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)
23:40-24:00	**MOR127 - 2024 - 1346** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR128 - 2024 - 1347** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR129 - 2024 - 1348** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR130 - 2024 - 1349** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR131 - 2024 - 1350** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR132 - 2024 - 1351** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)

Coffee Break Lobby (3F)

Session No.	1	2	3	4	5	6
Session	**ORAL 19**	**ORAL 20**	**ORAL 21**	**ORAL 22**	**ORAL 23**	**ORAL 24**
00:00-00:20	Dr. Jun SAKAI (Tokyo Metropolitan University, Japan) Dr. Jeong-Jae KIM (KAIST, Korea)	Prof. Kazuhiro NAKADASHI (Nagoya University, Japan) Dr. Sanae KUMA (JAXA, Japan)	Prof. Ji-Soo YOO (Seoul National University, Korea) Dr. Jae-Ung LEE (KAIST, Korea)	Dr. Mihai PALU (Multi-TH Consulting, UK) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Prof. Jeong-Yeol YOO (Korea Advanced Institute of Science and Technology, Republic of KOREA), Korea) Dr. Jeroen VANZWIETEN (Embraer, Brazil)	Prof. Alex Chin WANG (National Cheng Kung University, Taiwan) Dr. Jeroen VANZWIETEN (Embraer, Brazil)
00:20-00:40	**MOR133 - 2024 - 1352** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR134 - 2024 - 1353** Aerodynamic Characteristics of Hypersonic Vehicle Using Multi-Stage Reaction Control System Dr. Jeroen VANZWIETEN (Embraer, Brazil)	**MOR135 -