

Twelveth Asia Pacific Conference on Combustion ASPACC-12  
 1-5 July 2019, Fukuoka, Japan  
 Fukuoka International Congress Center

**Monday 1-July-19**  
 14:00 Registration Fukuoka International Congress Center, Entrance Hall  
 16:00 Wellcome Reception Restaurant Raconter

**Tuesday 2-July-19**  
 8:45 Opening Main Hall  
 9:00 **PL1: Toshiro Fujimori, R&D of Combustion Simulation Platform for advanced industrial design processes by academia-industry cooperation**  
 Main Hall

Room Session	Room 1 (402/403) Gas-Phase Reaction Kinetics	Room 2 (405/406) Internal Combustion Engines	Room 3 (409) Detonations, Explosions, and Supersonic Combustion	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Spray, Droplet, and Supercritical Combustion	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Gas Turbine and Rocket Engine Combustion
10:00	1030	1203	1307	1250	1067	1081	1325	1424	1174	1037
10:20	1152	1219	1177	1265	1093	1284	1462	1352	1470	1143
10:40	1188	1229	1019	1293	1133	1216	1121	1197	1256	1279
11:00	1201	1230	1069	1294	1151	1166	1116	1364	1349	
11:20	Break									

Room Session	Room 1 (402/403) Gas-Phase Reaction Kinetics	Room 2 (405/406) Internal Combustion Engines	Room 3 (409) Detonations, Explosions, and Supersonic Combustion	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Spray, Droplet, and Supercritical Combustion	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Gas Turbine and Rocket Engine Combustion
11:40	1036	1179	1161	1315	1450	1318	1435	1107	1252	1086
12:00	1095	1283	1175	1483	1169	1053	1423	1495	1034	1141
12:20	1185	1434	1396		1178	1361	1301	1420	1492	1176
12:40	Lunch Section chair lunch meeting, Fukuoka Sunpalace									

14:00 **PL2: R. V. Ravikrishna, Trapped Vortex Combustion: Insights from Laser Diagnostics & Numerical Simulations**  
 Main Hall

Room Session	Room 1 (402/403) Gas-Phase Reaction Kinetics	Room 2 (405/406) Internal Combustion Engines	Room 3 (409) Detonations, Explosions, and Supersonic Combustion	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Spray, Droplet, and Supercritical Combustion	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Gas Turbine and Rocket Engine Combustion
15:00	1078	1006	1009	1050	1194	1217	1162	1181	1467	1035
15:20	1328	1334	1443	1236	1195	1264	1114	1224	1083	1025
15:40	1287	1514	1507	1356	1485	1270	1309	1308	1105	1413
16:00	1311		1085	1385	1498		1245	1319	1142	1415
16:20	Break									

Room Session	Room 1 (402/403) Gas-Phase Reaction Kinetics	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Detonations, Explosions, and Supersonic Combustion	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Spray, Droplet, and Supercritical Combustion	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Gas Turbine and Rocket Engine Combustion
16:40	1231	1500	1068	1090	1144	1408	1051	1360	1469	1228
17:00	1403	1170	1102	1232	1445	1488	1464	1442	1271	1411
17:20	1478	1291	1135	1130	1471	1504	1126	1339	1295	1491
17:40	End of Day									

**Wednesday 3-July-19**

8:30 **PL3: Kang Y. Huh, Combustion Modeling and Simulation in Era of the Fourth Industrial Revolution**  
 Main Hall

Room	Room 1 (402/403)	Room 2 (405/406)	Room 3 (409)	Room 4 (410)	Room 5 (411/412)	Room 6 (413)	Room 7 (414)	Room 8 (501)	Room 9 (502)	Room 10 (503)
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Session	New Concepts	Gas-Phase Reaction Kinetics	Detonations, Explosions, and Supersonic Combustion	Solid Fuel Combustion	Combustion Simulation Platform	Spray, Droplet, and Supercritical Combustion	Soot, Nanomaterials, and Large Molecules	Laminar Flames	Turbulent Flames	Gas Turbine and Rocket Engine Combustion
9:30	1305	1123	1145	1321	1519	1354	1345	1029	1479	1489
9:50	1015	1233	1214	1461	1058	1263	1341	1018	1010	1111
10:10	1417	1304	1262	1472	1521	1281	1446	1150	1001	
10:30		1313		1475	1509	1465	1118	1159	1255	
10:50	Break Women in Combustion Meeting									
Room Session	Room 1 (402/403) New Concepts	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Internal Combustion Engines	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Spray, Droplet, and Supercritical Combustion	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Fire Research
11:10	1410	1376	1457	1392	1513	1024	1335	1014	1031	1038
11:30	1042	1421	1244	1383	1103	1273	1266	1477	1089	1322
11:50	1344	1431	1023	1063	1189	1140	1405	1173	1172	1215
12:10		1466	1227	1084	1387	1094	1327	1226	1324	1363
12:30	End of Day									
14:00	Excursion, Aquarium "Marin World"									

**Thursday 4-July-19**

8:30	<b>PL4: Evatt Hawkes, Unravelling engine combustion using large-scale computations</b> Main Hall									
Room Session	Room 1 (402/403) New Concepts	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Internal Combustion Engines	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Stationary Combustion Systems and Control of Greenhouse Gas Emissions	Room 6 (413) Diagnostics	Room 7 (414) Soot, Nanomaterials, and Large Molecules	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Fire Research
9:30	1476	1247	1515	1274	1277	1007	1222	1096	1182	1043
9:50	1138	1249	1516	1275	1367	1013	1210	1303	1154	1202
10:10	1241	1300	1359	1506	1391	1437	1075	1192	1332	1204
10:30	1378	1115	1503	1338	1460	1468		1426	1440	1206
10:50	Break									
Room Session	Room 1 (402/403) New Concepts	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Internal Combustion Engines	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Solid Fuel Combustion	Room 6 (413) Diagnostics	Room 7 (414) Spray, Droplet, and Supercritical Combustion	Room 8 (501) Laminar Flames	Room 9 (502) Turbulent Flames	Room 10 (503) Fire Research
11:10	1223	1087	1441	1002	1505	1139	1290	1348	1076	1282
11:30	1390	1317	1494	1481	1066	1425	1292	1110	1070	1260
11:50	1120	1394	1099	1459	1064	1212	1080	1026	1369	1125
12:10	1128	1444	1211	1157	1368		1045			1055
12:30	Lunch Section chair lunch meeting, Fukuoka Sunpalace									
14:00	<b>PL5: Min Suk Cha, Recent understanding with flames under external electric fields</b> Main Hall									
Room Session	Room 1 (402/403) New Concepts	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Internal Combustion Engines	Room 4 (410) Solid Fuel Combustion	Room 5 (411/412) Solid Fuel Combustion	Room 6 (413) Diagnostics	Room 7 (414) Spray, Droplet, and Supercritical Combustion	Room 8 (501) Laminar Flames	Room 9 (502) Laminar Flames	Room 10 (503) Fire Research
15:00	1302	1072	1108	1486	1187	1062	1057	1342	1044	1056
15:20	1493	1220	1191	1122	1213	1098	1028	1418	1347	1451
15:40	1257	1200	1251	1065	1235	1101	1310	1320	1131	1370
16:00	Break									
Room Session	Room 1 (402/403) New Concepts	Room 2 (405/406) Gas-Phase Reaction Kinetics	Room 3 (409) Internal Combustion Engines		Room 5 (411/412) Solid Fuel Combustion	Room 6 (413) Diagnostics	Room 7 (414) Spray, Droplet, and Supercritical Combustion	Room 8 (501) Gas Turbine and Rocket Engine Combustion	Room 9 (502) Laminar Flames	Room 10 (503) Fire Research
16:20	1163	1454	1238		1298	1510	1276	1326	1049	1156

16:40	1165	1350	1343	1430	1061	1039	1060	1333	1419
17:00	End of Day								
18:00	Conference Banquet, Hotel Okura Fukuoka								

**Friday 5-July-19**

8:30	<b>PL6: Naian Liu, Combustion of Fire Whirl : How much do we know?</b>									
	<b>Main Hall</b>									
Room Session	<b>Room 1 (402/403)</b>	<b>Room 2 (405/406)</b>	<b>Room 3 (409)</b>	<b>Room 4 (410)</b>	<b>Room 5 (411/412)</b>	<b>Room 6 (413)</b>	<b>Room 7 (414)</b>	<b>Room 8 (501)</b>	<b>Room 9 (502)</b>	<b>Room 10 (503)</b>
	<b>New Concepts</b>	<b>Gas-Phase Reaction Kinetics</b>	<b>Internal Combustion Engines</b>	<b>Detonations, Explosions, and Supersonic Combustion</b>	<b>Solid Fuel Combustion</b>	<b>Diagnostics</b>	<b>Spray, Droplet, and Supercritical Combustion</b>	<b>Gas Turbine and Rocket Engine Combustion</b>	<b>Laminar Flames</b>	<b>Fire Research</b>
9:30	1439	1003	1416	1012	1243	1164	1109	1288	1117	1508
9:50	1119	1106	1502	1147	1248	1436	1132	1289	1196	1160
10:10	1218	1240	1351	1167	1340	1386	1484	1412	1299	1501
10:30	1398	1242	1246	1389		1490			1428	1346
10:50	Break									
Room Session	<b>Room 1 (402/403)</b>	<b>Room 2 (405/406)</b>	<b>Room 3 (409)</b>	<b>Room 4 (410)</b>	<b>Room 5 (411/412)</b>	<b>Room 6 (413)</b>	<b>Room 7 (414)</b>	<b>Room 8 (501)</b>	<b>Room 9 (502)</b>	<b>Room 10 (503)</b>
	<b>New Concepts</b>	<b>Gas-Phase Reaction Kinetics</b>	<b>Internal Combustion Engines</b>	<b>Detonations, Explosions, and Supersonic Combustion</b>	<b>Solid Fuel Combustion</b>	<b>Diagnostics</b>	<b>Spray, Droplet, and Supercritical Combustion</b>	<b>Gas Turbine and Rocket Engine Combustion</b>	<b>Laminar Flames</b>	<b>Fire Research</b>
11:10	1054	1473	1052	1268	1082	1146	1427	1433	1127	1384
11:30	1409	1438	1337	1155	1388	1180	1040	1511	1373	1404
11:50	1482	1190	1091	1186	1253	1237	1272	1208	1393	1323
12:10	1113	1198	1022	1458	1512					
12:30	Lunch									
14:00	<b>PL7: Yei-Chin Chao, Hydrogen Peroxide Revisited: the Role as an Energy-Saving Combustion Enhancer and a Non-Toxic Green Propellant for Satellites and Hybrid Rockets</b>									
	<b>Main Hall</b>									
Room Session	<b>Room 1 (402/403)</b>	<b>Room 2 (405/406)</b>	<b>Room 3 (409)</b>		<b>Room 5 (411/412)</b>	<b>Room 6 (413)</b>	<b>Room 7 (414)</b>	<b>Room 8 (501)</b>	<b>Room 9 (502)</b>	<b>Room 10 (503)</b>
	<b>New Concepts</b>	<b>Gas-Phase Reaction Kinetics</b>	<b>Internal Combustion Engines</b>		<b>Solid Fuel Combustion</b>	<b>Diagnostics</b>	<b>Spray, Droplet, and Supercritical Combustion</b>	<b>Gas Turbine and Rocket Engine Combustion</b>	<b>Laminar Flames</b>	<b>Fire Research</b>
15:00	1016	1207	1183		1205	1008	1005	1153	1316	1366
15:20	1124	1312	1048		1518	1455	1261	1452	1336	1397
15:40	1474	1448			1285	1254	1395	1372	1406	1148
16:00					1209					
16:20	End of Day									
16:30	Farewell Reception, Fukuoka Sunpalace									