### Program at a Glance (DRAFT)

#### SUNDAY, AUGUST 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>Welcome Reception</td>
</tr>
</tbody>
</table>

#### MONDAY, AUGUST 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Opening Ceremony</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Plenary Speaker 1: Björn Palm, KTH</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>Plenary Speaker 2: Eric M. Smith, IIAR</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>A1: Refrigerants 1: CO2/HC</td>
</tr>
<tr>
<td></td>
<td>B1: Components-Heat Exchanger 1</td>
</tr>
<tr>
<td></td>
<td>C1: Components-Compressor 1</td>
</tr>
<tr>
<td></td>
<td>D1: Heat Transfer</td>
</tr>
<tr>
<td>12:00 N</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>A2: Systems 1: CO2</td>
</tr>
<tr>
<td></td>
<td>B2: Components-Ejector</td>
</tr>
<tr>
<td></td>
<td>C2: Modeling 1</td>
</tr>
<tr>
<td></td>
<td>D2: Modeling 2</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Excursions to Washington, DC</td>
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#### TUESDAY, AUGUST 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration</td>
</tr>
<tr>
<td>7:30 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Plenary Speaker 3: Hannes Fugmann, Fraunhofer Institute for Solar Energy Systems</td>
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<tr>
<td>9:15 AM</td>
<td>Plenary Speaker 4: Zahid Ayub, Isotherm</td>
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<tr>
<td>10:30 AM</td>
<td>A3: Refrigerants 2: HCs</td>
</tr>
<tr>
<td></td>
<td>B3: Components-Heat Exchanger 2</td>
</tr>
<tr>
<td></td>
<td>C3: Components-Compressor 2</td>
</tr>
<tr>
<td></td>
<td>D3: Not-In-Kind 1</td>
</tr>
<tr>
<td>12:00 N</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>A4: Systems 2: HCs</td>
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<tr>
<td></td>
<td>B4: Components-Heat Exchanger 3</td>
</tr>
<tr>
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<td>C4: Modeling 3</td>
</tr>
<tr>
<td></td>
<td>D4: Refrigerant Safety</td>
</tr>
<tr>
<td>3:30 PM</td>
<td>A5: Systems 3: Natural Refrigerants</td>
</tr>
<tr>
<td></td>
<td>B5: Systems 4: HTHP 1</td>
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<tr>
<td></td>
<td>C5: Workshop: Decarbonization through adapting low-GWP refrigerants</td>
</tr>
<tr>
<td></td>
<td>D5: Thermal Management &amp; CFD Analysis</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>Conference Banquet</td>
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</tbody>
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#### WEDNESDAY, AUGUST 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>7:30 AM</td>
<td>Breakfast</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>A6: Systems 5: District Heating</td>
</tr>
<tr>
<td></td>
<td>B6: Systems 6: HTHP 2</td>
</tr>
<tr>
<td></td>
<td>C6: Field Testing</td>
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<tr>
<td></td>
<td>D6: Market Analysis</td>
</tr>
<tr>
<td>10:30 AM</td>
<td>A7: Systems 7: Transport</td>
</tr>
<tr>
<td></td>
<td>B7: Measuring Methods</td>
</tr>
<tr>
<td></td>
<td>C7: Operations &amp; Controls</td>
</tr>
<tr>
<td></td>
<td>D7: Not-In-Kind 2</td>
</tr>
<tr>
<td>12:00 N</td>
<td>Lunch &amp; Closing Ceremony</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Lab Tours</td>
</tr>
</tbody>
</table>

### Program at a Glance (DRAFT)
Sessions at a Glance (DRAFT)

MONDAY, AUGUST 12

10:30 AM–12:00 NOON

A1: Refrigerants 1: CO2/HC
Chair: Chun-cheng Piao
ID 1106 ID 1107
ID 1108 ID 1197

B1: Components–Heat Exchanger 1
Chair: Lorenzo Cremaschi
ID 1178 ID 1201
ID 1288 ID 1149

C1: Components–Compressor 1
Chair: Baolong Wang
ID 1184 ID 1190
ID 1196 ID 1102

D1: Heat Transfer
Chair: Giovanni Longo
ID 1101 ID 1244
ID 1110 ID 1138

1:00–3:00 PM

A2: Systems 1: CO2
Chair: Amin Hafner
ID 1100 ID 1209
ID 1194 ID 1238
ID 1126 ID 1198

B2: Components–Ejector
Chair: Stefan Elbel
ID 1165 ID 1173
ID 1148 ID 1147
ID 1160 ID 1177

C2: Modeling 1
Chair: Vikrant Aute
ID 1187 ID 1215
ID 1128 ID 1280
ID 1168 ID 1127

D2: Modeling 2
Chair: Zhenning Li
ID 1193 ID 1217
ID 1298 ID 1260
ID 1182 ID 1206

TUESDAY, AUGUST 13

10:30 AM–12:00 NOON

A3: Refrigerants 2: HCs
Chair: Steve Kujak
ID 1297 ID 1156
ID 1157 ID 1105

B3: Components–Heat Exchanger 2
Chair: Akio Miyara
ID 1263 ID 1269
ID 1241 ID 1249

C3: Components–Compressor 2
Chair: Petter Nekså
ID 1183 ID 1218
ID 1292 ID 1286

D3: Not-In-Kind 1
Chair: Minsung Kim
ID 1306 ID 1302
ID 1273 ID 1204

1:00–3:00 PM

A4: Systems 2: HCs
Chair: Kashif Nawaz
ID 1203 ID 1236
ID 1131 ID 1130
ID 1192 ID 1155

B4: Components–Heat Exchanger 3
Chair: Rene Kieberer
ID 1214 ID 1222
ID 1221 ID 1250
ID 1248 ID 1242

C4: Modeling 3
Chair: Minsoo Kim
ID 1167 ID 1186
ID 1281 ID 1289
ID 1109 ID 1180

D4: Refrigerant Safety
Chair: Andy Pearson
ID 1285 ID 1239
ID 1207 ID 1287
ID 1141 ID 1119

3:30–5:30 PM

A5: Systems 3: Natural Refrigerants
Chair: Seontae Kim
ID 1129 ID 1150 ID 1307
ID 1303 ID 1188
ID 1114 ID 1124

B5: Systems 4: HTHP 1
Chair: Björn Palm
ID 1121 ID 1226
ID 1202 ID 1208
ID 1199 ID 1251

C5: Workshop: Decarbonization through adapting low-GWP refrigerants
Chair: Xudong Wang

D5: Thermal Management & CFD Analysis
Chair: Andy Pearson
ID 1246 ID 1103 ID 1293
ID 1235 ID 1185
ID 1139 ID 1109

WEDNESDAY, AUGUST 14

8:00–10:00 AM

A6: Systems 5: District Heating
Chair: Hafez Madani Larijani
ID 1172 ID 1166
ID 1142 ID 1256
ID 1152 ID 1111

B6: Systems 6: HTHP 2
Chair: Steven Lecompte
ID 1118 ID 1277
ID 1205 ID 1237
ID 1210 ID 1229

C6: Field Testing
Chair: Giovanni Cortella
ID 1176 ID 1225
ID 1175 ID 1195
ID 1170 ID 1163

D6: Market Analysis
Chair: Marco Azzolin
ID 1171 ID 1283
ID 1295 ID 1262
ID 1224 ID 1189

10:30 AM–12:00 NOON

A7: Systems 7: Transport
Chair: Tobias Sienel
ID 1294 ID 1233
ID 1159 ID 1153

B7: Measuring Methods
Chair: Phillip Johnson
ID 1162 ID 1140
ID 1123 ID 1247

C7: Operations & Controls
Chair: Jonas Kjær Jensen
ID 1232 ID 1117 ID 1300
ID 1151 ID 1181

D7: Not-In-Kind 2
Chair: Hirofumi Daijuji
ID 1174 ID 1291
ID 1164 ID 1113

1:00–2:30 PM

Lab Tours