

The timetable of the 183rd ISIJ Online Meeting  
(March 15-17, 2022)

| Session Room                | Mar. 15 (Tue.)  |  | Mar. 16 (Wed.)  |  | Mar. 17 (Thu.)  |  |
|-----------------------------|---|--|---|--|---|--|
|                             | AM  | PM   | AM  | PM   | AM  | PM   |
| Awards Ceremony Room        | --  | Ceremony of conferment of the honorary membership and prize awarding, Special lecture meeting (14:00-16:20) [Charge-Free]                    | --  | --   | --  | --   |
| Session Room 1              | Blast Furnace [1-4] (10:40-12:00)   | --   | Physico-chemical properties of high temperature melts 1・2 [J12-J17] (9:30-11:50)  | ISIJ and JIM joint session<br>Physico-chemical properties of high temperature melts 3・4 [J18-J23] (13:30-15:50) / Properties of liquid materials [17-20] (16:10-17:30) | Inclusion / Slag and dust treatment [30-36] (9:20-12:00)  | Electric furnace and scrap / Hot metal treatment, converter and secondary refining [37-43] (13:00-15:40) |
| Session Room 2              | Young engineer session of coke-making 1・2 [5-11] (9:00-11:40)   | --   | --  | Sintering process 1・2 / Sinter [21-29] (13:00-16:40)   | High phosphorus iron / Coal and coke [44-50] (9:00-11:40)   | Carbonization and reduction / Hydrogen reduction ironmaking [51-56] (13:00-15:20)                        |
| Session Room 3              | Thermodynamics [12-16] (10:00-11:40)  | Quantitative analysis of solidification phenomena related to macrosegregation (13:00-16:35) [Charge-Free]                                    | --  | Data science for deterioration diagnosis of infrastructure II (13:00-17:00) [Charge-Free]  | Solidification and structure Control 1・2 [57-62] (9:40-12:00)   | Continuous casting and solidification / Property of cast metals [63-68] (13:00-15:20)                    |
| Session Room 4              | CO <sub>2</sub> reduction and detoxification [69-71] (9:00-10:00)   | --   | Green energy technologies contributing to the resolution of resource-energy-environmental problems in the ironmaking process 1・2 [72-80] (9:00-12:20) | Steel industry' s co-products / History of steels [81-86] (13:30-15:50)  | --  | --   |
| Session Room 5              | --  | --   | --  | Instrumentation and automation 1・2 [87-93] (13:00-15:40)   | Recent trends on systems resilience to realize both maximum efficiency and operational stability [D1-D5] (9:00-12:15)               | --   |
| Session Room 6              | Deformation and additive manufacturing / Rolling [94-98] (10:00-12:00)  | --   | Advanced technologies in steel sheet forming and issues [D6-D13] (10:00-16:00)  |  | Needs for tubes with uneven thickness and their manufacturing and forming techniques 3 [D14-D19] (9:00-12:00)                       | Heating and cooling / Fracture characteristics and life elongation [102-106] (13:00-15:00)               |
|                             |   |  | Manufacturing technology of high quality and high functional bar and wire [99-101] (16:30-17:30)  |  |   |  |
| Session Room 7              | Hydrogen embrittlement 1・2 [107-114] (9:00-12:00)   | --   | Importance of plasticity-driven fracture and its required analytical techniques [D20-D28] (9:30-16:30)  |  | Hydrogen embrittlement 3・4 [169-176] (9:00-12:00)   | Hydrogen embrittlement 5-6 [177-184] (13:20-16:20)   |
| Session Room 8              | High-strengthening theory in high-temperature materials III (10:00-16:30) [Charge-Free]   |  | Stainless steel [125-126] (11:00-11:40)   | Hot-dip coating / Chemical property [127-136] (13:00-16:40)  | Elucidation of bio-corrosion mechanism and development of diagnosis /deterrence technology for bio-corrosion [D29-D34] (9:00-12:20) | --   |
| Session Room 9              | Applicability of friction welding technology for steel bridges and infrastructures~Mechanical properties and corrosion resistance of FSW-LFW joints~ (9:00-11:45) [Charge-Free] | --   | Diffusional transformation and diffusionless transformation 1・2 [137-144] (9:00-12:00)  | Diffusional transformation and diffusionless transformation 3 / Microstructural observation and analysis [145-152] (13:00-16:00)                                       | Fatigue property [185-187] (10:00-11:00)  | --   |
| Session Room 10             | Aging and precipitation 1・2 [115-122] (9:00-12:00)  | --   | Toughness and deformability 1・2 [153-159] (9:00-11:40)  | Heat resistant steels / Heat resistant alloys [160-168] (13:00-16:20)  | Recrystallization and texture / Modeling and simulation [188-195] (9:00-12:00)  | --   |
| Session Room 11             | Machine structural steel [123-124] (11:00-11:40)  | "Multi-scale characterization of crystalline materials forum" symposium ~Stress, strain and mechanical property~ (13:00-17:15) [Charge-Free] | Crystal structure analysis [210-214] (10:00-11:40)  | Surface and state analysis / Elemental analysis and others [215-222] (13:00-16:00)   | Strength and deformation behavior 1・2 [196-202] (9:00-11:40)  | Strength and deformation behavior 3・4 [203-209] (13:00-15:40)  |
| Session Room 12             | --  | --   | --  | Micro-analysis of corrosion phenomena on stainless steels (13:00-15:40) [Charge-Free]  | --  | --   |
| JIM Room F (Zoom)           | --  | --   | --  | --   | ISIJ and JIM joint session Titanium and its alloys 1・2 [J1-J9] (9:00-12:10)   | --   |
| JIM Room O (Zoom)           | --  | ISIJ and JIM joint session Ultrafine grained materials - fundamental aspects for ultrafine grained structures [J10-J11] (15:00-15:40)        | --  | --   | --  | --   |
| Poster Session for Students | --  | --   | Poster Session for Students (11:45-14:45) [Charge-Free]<br>Poster Session Award Ceremony (19:00-20:30) [Charge-Free]                                  |  | --  | --   |

[ ]: Lecture Number  
( ): Lecture Time  
■: Free Event