

The timetable the 178th ISIJ Meeting  
(September 11–13, 2019 at Okayama University, Tsushima Campus)

| Session Room  | Sept. 11 (Wed.)  |   | Sept. 12 (Thu.)  |   | Sept. 13 (Fri.)  |   |
|---|--|---|--|---|--|---|
|   | AM   | PM  | AM   | PM  | AM   | PM  |
| Session Room 1<br>Bldg. for General Education<br>4th fl. A41        | Contribution of steelmaking technology for the sustainable development in Asia [Int.-1-Int.-11] (9:30-15:50) |   | Thermodynamics/ Transport phenomena [23-30] (9:00-11:50)   | Converter and electric furnace/Secondary refining [31-38] (13:00-15:50)   | Control of solidified structure of steelmaking slag for suppression of elution of alkali (9:00-11:50) [Charge-free]                        | ---   |
| Session Room 2<br>Bldg. for General Education<br>4th fl. A42        | Novel processing/Electromagnetic processing of materials [1-7] (9:30-12:00)                                  | Analysis and quantification of segregation and defect during solidification (13:00-16:25) [Charge-free]                                 | Advanced utilization of by-materials/Eco-process and iron making [99-107] (9:00-12:10)   | ---   | ---  | ---   |
| Session Room 3<br>Bldg. for General Education<br>4th fl. B41        | Cohesive zone in blast furnace 1·2 [8-14] (9:20-11:50)   | Current state and challenges for future advancement of instrumentation technology for ironmaking process (13:00-17:20) [Charge-free]    | Reactions and operation estimation of blast furnace/ Raceway in blast furnace [39-45] (9:00-11:30)   | Current situations and issues on characterization of multi-component calcium ferrite aiming for production of high-performance iron ore sinters [D1-D5] (13:00-16:10) | Young engineer session of iron making/Sintering process 1 [59-65] (9:00-11:30)   | Sintering process 2/ Analysis of sinter [66-73] (13:00-15:50)   |
| Session Room 4<br>Bldg. for General Education<br>3rd fl. B32        | Effective utilization of resources 1·2 [15-22] (9:10-12:00)  | Evaluation of social value of material in the value chain (13:00-16:50) [Charge-free]   | Young engineer session of coke-making 1·2 [46-52] (9:00-11:30)   | Young engineer session of coke-making 3/Coke [53-58] (13:00-15:10)  | Inclusion [74-77] (10:00-11:20)  | Slag and dust treatment [78-82] (13:00-14:40)   |
| Session Room 5<br>Bldg. for General Education<br>3rd fl. B33        | ---  | Carbon dioxide Capture-Less-Utilize (CCLU) process without CO <sub>2</sub> separation and recovery (13:00-17:00) [Charge-free]          | Technology and history of the iron and related industries in Chugoku area Japan (10:00-17:00) [General: 2,000yen, Student: 1,000yen]           |   | Solidification and structure control/Continuous casting and solidification 1 [83-91] (9:00-12:10)  | Continuous casting and solidification 2·3 [92-98] (13:10-15:40)   |
| Session Room 6<br>Bldg. for General Education<br>3rd fl. A31        | Advanced abnormality diagnoses based on area sensing technologies [D6-D10] (9:20-12:00)                      | ---   | Instrumentation 1·2 [108-114] (9:00-11:30)   | Control and system [115-118] (12:30-13:50)<br>Human-system shared control realizing high efficient and stable rolling [D11-D15] (14:00-16:35)                         | ---  | ---   |
| Session Room 7<br>Bldg. for General Education<br>3rd fl. A34        | Modeling of various phenomena in metal forming and its application 1·2 [119-125] (9:20-11:50)                | Current research and development of width control in hot rolling [D16-D20] (13:00-16:50)  | Symposium on formation and nano-level analysis of excellent hot-dip Zn coating layer (9:00-16:35) [Charge-free]                                |   | Scale and cooling/Cooling [152-158] (9:20-11:50)   | Hot rolling/ Fundamental tribological studies on manufacturing processes [159-168] (13:00-16:30)  |
| Session Room 8<br>Bldg. for General Education<br>3rd fl. A35        | ---  | Reliability evaluation of steel weld 1·2/Control technology for free cutting-13 [126-135] (13:00-16:40)                                 | The technical session by young engineers of hot rolling 1·2 [136-141] (9:30-11:40)   | Young engineer's latest researches on tubes and pipes II-1·2/Advances in processing of powders and powder metallurgy [142-151] (13:00-16:40)                          | ---  | ---   |
| Session Room 9<br>Bldg. for General Education<br>3rd fl. A36        | Modeling and simulation 1·2 [169-176] (9:10-12:00)   | Frontier of quantum beam analysis for metallic microstructures II (13:00-16:55) [Charge-free]   | Stainless steels 1 [212-215] (10:30-11:50)   | Stainless steels 2·3 [216-223] (13:30-16:20)  | Fatigue property/ Toughness and ductility [270-277] (9:00-11:50)   | ---   |
| Session Room 10<br>Bldg. for General Education<br>3rd fl. A37       | Fatigue damage on surface hardened alloy steels for machine structural use, 2nd (9:20-16:00) [Charge-free]   |   | Strength and deformation behavior 1·2 [224-231] (9:00-11:50)   | Strength and deformation behavior 3·4·5 [232-241] (13:00-16:40)   | Hot-dip coating [278-282] (10:20-12:00)  | Chemical property [283-286] (13:00-14:20)   |
| Session Room 11<br>Bldg. for General Education<br>3rd fl. B31       | Plate and machine structural steel [177-179] (11:00-12:00)   | ---   | Electrical steel 1·2 [242-248] (9:10-11:40)  | Recrystallization and grain growth 1·2 [249-256] (13:30-16:20)  | ---  | ---   |
| Session Room 12<br>Bldg. for General Education<br>2nd fl. A21       | Phase transformation/ Aging and precipitation [180-186] (9:10-11:40)   | Microstructure formation 1·2 [187-193] (13:20-15:50)  | Ferritic heat resistant steel 1·2 [257-264] (9:00-11:50)   | Austenitic heat resistant steel and heat resistant alloy [265-269] (13:30-15:10)  | Inhomogenous deformation and mechanical properties of steels (9:00-15:10) [Charge-free]  |   |
| Session Room 13<br>Bldg. for General Education<br>2nd fl. B21       | ---  | ISIJ and JIM joint session Titanium and its alloys 1·2 [J1-J10] (13:00-16:30)   | ---  | ---   | ISIJ and JIM joint session Titanium and its alloys 3·4 [J11-J18] (9:00-11:50)  | ---   |
| Session Room 14<br>Bldg. for General Education<br>1st fl. B11       | ---  | ISIJ and JIM joint session Materials science of martensitic and bainitic transformations and its applications 1 [J28-J31] (13:10-14:30) | ISIJ and JIM joint session Materials science of martensitic and bainitic transformations and its applications 2·3·4·5·6 [J32-J50] (9:00-17:00) |   | ISIJ and JIM joint session Materials science of martensitic and bainitic transformations and its applications 7·8 [J51-J58] (9:00-11:50)   | ---   |
| Session Room 15<br>Bldg. for General Education<br>1st fl. D13       | ---  | High-strengthening theory in high-temperature materials II (13:00-17:10) [Charge-free]  | Recent advancement of studies on phase transformation and precipitation in Titanium alloys (10:00-15:45) [Charge-free]                         |   | ---  | ---   |
| Session Room 16<br>Bldg. for General Education<br>1st fl. E11       | Hydrogen embrittlement 1·2 [194-199] (9:40-11:50)  | Hydrogen embrittlement 3·4·5 [200-211] (13:00-17:20)  | Mechanism of fracture and practical issues in hydrogen embrittlement (9:00-16:50) [2,000yen]   |   | Hydrogen embrittlement 6·7 [287-293] (9:20-11:50)  | Hydrogen embrittlement 8 [294-296] (13:00-14:00)  |
| Session Room 17<br>Bldg. for General Education<br>3rd fl. A32       | ---  | ---   | Surface and state analysis/ Crystal structure analysis [297-303] (9:10-11:40)  | Fabrications of new functionalities of biofilm-covered and/or chemically treated slags and their analyses (13:00-16:25) [Charge-free]                                 | Elemental analysis 1 [304-307] (10:30-11:50)   | Board Meeting of Process Evaluation and Material Characterization (13:00-14:00) [Charge-free]<br>Elemental analysis 2 [308-310] (14:10-15:10) |
| JIM Session Room D<br>Bldg. for General Education<br>1st fl. D12    | ---  | ---   | ---  | ---   | ISIJ and JIM joint session Ultrafine grained materials -fundamental aspects for ultrafine grained structures- 1·2·3 [J19-J27] (9:00-12:20) | ---   |
| JIM Session Room M<br>Bldg. for General Education<br>3rd fl. D34    | ---  | ---   | ISIJ and JIM joint session Physico-chemical properties of high temperature melts 1·2·3·4·5 [J59-J76] (9:00-17:20)                              |   | ---  | ---   |
| Banquet (18:30-20:30 Purity MAKIBI 2nd fl. Peacock room) [8,000yen] |  |   | Poster Session for Students (12:00-16:00 50th Anniversary Hall)<br>ISIJ Beer Party (17:30-19:00 Peach Union 3rd fl.) [1,000yen]                |   |  |   |

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( ) : Lecture Time  
■ : Symposium: Please ask to each of symposium room desks directly