THE ISIJ ORGANIZATION (as of April, 2015)

Academic Society

Board of Academic Society

- Editorial Board of Journals
- ISIJ Meeting Committee
- Division of High-Temperature Processes
- Division of Environmental, Energy and Social Engineering
- Division of Instrumentation, Control and Systems Engineering
- Division of Processing for Quality Products
- Division of Microstructure and Properties of Materials
- Division of Process Evaluation and Material Characterization

Academic Society

- Board of Academic Society
- Editorial Board of Journals
- Screening Subcommittee of Tawara and Sawamura Awards
- ISIJ Meeting Committee
- Organizing Committee for Asia Steel 2015

- Division of High-Temperature Processes
  Steering Committee
  Forum
  * Resources and Energy
  * Iron-making Process
  * Refining
  * Solidification and Structure Formation
  * Novel Processing
  * Thermo-physical and dynamic Properties of High Temperature Materials
  * Young Scientist Forum

Research Group

- Slag Formation with High Speed Lime Dissolution
- Fundamental Technology for Ultra Fine Ore Sintering
- Reduction of Macro-segregation by Controlling Solid-liquid Coexisting States
- Thermodynamics of Transition and Tramp Elements in Steel for Advanced Sustainable Steelmaking
- Sustainable Iron and Steel Making System Based on Material Recycling Technologies (SMART)

- Division of Environmental, Energy and Social Engineering
  Steering Committee
  Forum
  * Green Energy
  * Slag to Urban Phosphate Ore (StoUP)
  * Green Material
  * New Functions of Iron- and Steel-making Slags
  * Reflecting and Diffusing “Social Value of TETSU”
  * Effective Use of Unutilized Energy in Steelworks
  * Social Cooperation

Research Group

* Sustainable Iron and Steel Making System Based on Material Recycling Technologies
Division of Instrumentation, Control and Systems Engineering
Steering Committee
Screening Subcommittee of Instrumentation, Control and System Engineering Awards

Forum
* Next-generation Sensing for High-productivity High-quality Processes
* Cooperative Control System with Human Operation
* System Technologies for Pursuing an Ideal Picture of Steel Industries in the Next Generation
* System Modeling Technologies Based on Data for Steel Industries
* Young Scientist Forum

Research Group

Division of Processing for Quality Products
Steering Committee

Forum
* Basic Forum of Processing for Quality Products
* Sheet and Foil
* Bar and Wire Engineering and Cutting Engineering
* Joining, Casting and Forging for Reliable Steel Structure
* Pipe and Tubes
* Young Scientist Forum

Research Group
* Hot Rolling Rolls
* Steel Informatics (創形部会と合同)
* Sophistication of Steel Sheet Forming Technology with the Aid of Advanced Multiaxial Stress Tests
* Development of Viscous Flow Processing in Iron Based Metallic Glasses

Division of Microstructure and Properties of Materials
Steering Committee
Forum Chairmen Meeting
Organizing Committee for GALVATECH 2017

Forum
* Creation and Nanoscale Analysis of Next-generation Hot-dip Galvanized Steel Sheet Coatings
* Fundamentals of the Behaviour of Light Elements in Steels and their Effects on Mechanical Properties
* Analysis and Evaluation of Hydrogen Embrittlement
* Microstructural Evolution Using Micro-segregation and its Control in Process
* Mathematical Modeling and Simulation of Corrosion Processes
* Young Scientist Forum

Autonomous Forum
* High-performance of Fe-group Alloys due to Optimization of Microstructure
* Structural and Functional Titanium Materials for Enhancing Energy Development
* Development of Steel Material Utilizing Alloing and Impurity Elements
* Fundamental Understanding of Microstructure of High Cr Steel Weld and its Applications
* Stabilities and Material Properties of Austenite Phase
* Analysis of Factors which Promote Biological Steel Corrosion
* Characterization and Control of Microscopic Texture of Materials
* Microstructures and Mechanical Properties in Stainless Steels
* Fundamentals of Martensite and Bainite Transformations in Steel
* Microstructure and Fracture Toughness of Bainitic Steels

Research Group
* Comprehensive Understanding of Hydrogen-passive Surface on Steels for Prevention of Hydrogen Embrittlement
* Steel Informatics (創形部会と合同)
* Fundamental Factors and Characteristics Evaluation of Hydrogen Embrittlement
Division of Process Evaluation and Material Characterization
Steering Committee
ISIJ Meeting Subcommittee
Publicity Subcommittee
Forum Chairmen Meeting

Forum
*Monitoring and Analysis Technologies on Steel and Steel Process Using Advanced Laser Diagnostics
*Biofouling/Biofilm Evaluation and Characterization
*Hydrogen Analysis in Iron and Steel
*Research on Heterostructure Analysis of Steel-related Materials
*Characterization of Relationship between Chemical State of Constituent Elements and Properties of Materials
*Fabrication of Visualized Archives to Master Sophisticated Techniques in Steel Analyses

Autonomous Forum
*Development of Rapid and Highly Sensitive Analytical Methods in Steel Making Process using Portable Chemical Analyzers Coupled with Separation and Preconcentration Techniques

Research Group
*Characterization of Microstructure in Steels by Compact Neutron Source
*Fundamental Factors and Characteristics Evaluation of Hydrogen Embrittlement