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<td>Coke making technology /Young engineer session of coke-making</td>
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<td>13:30-17:00</td>
<td>Microstructure formation1-2</td>
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<td>17:00-18:45</td>
<td>Crystal structure analysis [342-345] [10:30-11:50]</td>
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<td>18:00-20:00</td>
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<tr>
<td>20:00-22:00</td>
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<td>11:15-12:00</td>
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<td>13:00-15:30</td>
<td>Ferritic heat resisting steels2-3</td>
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<td>15:45-17:30</td>
<td>Ferritic heat resisting steels3-4</td>
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**March 31 (Sat)**

**Meeting: Instrumentation, Control and System Engineering**

**March 29 (Thurs) 12:00-12:50 Room9 Processing for Quality Products**

**March 29 (Thurs) 12:00-13:00 Room11**
### High Temperature Processes

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<td>Analysis of defect generation behavior during plastic phase</td>
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### Research and Development Towards High-precision Simulation of Forming Processes

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### Process Evaluation and Material Characterization

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### High Temperature Processes
#### 2012/03/29 Lecture Room 5

**Innovations and future directions for BOF steelmaking processes**

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<td>10:05</td>
<td>Chairperson: Y.Kobayashi(Tokyo Inst. of Tech.)</td>
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| 10:05   | **Int. 1 Development of simulation program for hot-metal dephosphorization processes**  
          *The activity of the ISIJ Research Group “Process simulation for dephosphorization of pig iron by multi-phases”* — **Waseda Univ. OK.Ito · M.Mori** |
| 10:35   | **Int. 2 (Invited Lecture) Blasted droplet model of oxygen steelmaking**  
          **Swinburne Univ. of Tech. OG.Brooks, Univ. of Wollongong N.Dogan, McMaster Univ. K.Coley** |
| 11:05   | **Int. 3 Effect of changes in slag basicity and stirring intensity on hot metal dephosphorization**  
          **NSC ON.Sasaki · Y.Ogawa · K.Miyamoto** |
| 11:25   | **Int. 4 (Invited Lecture) Thermodynamic database and kinetic simulation for BOF process**  
          **McGill Univ. OL-H.Jung · M-A.Van Ende · W-Y.Kim** |
| 13:10   | **Chairperson: N.Maruoka (Tohoku Univ.)**                                                        |
| 13:10   | **Int. 5 (Invited Lecture) Advances in converter technology**  
          *A new direction for research in the basic oxygen converter*  
          **Tata Steel OC.McDonald** |
| 13:40   | **Int. 6 Development of hot metal dephosphorization with CaO powder top blowing**  
          **Sumitomo Metals OT.Tamura · M.Miyata · Y.Higuchi, Formerly Sumitomo Metals T.Matsuo** |
| 14:00   | **Int. 7 (Invited Lecture) The effect of solid particles on liquid viscosity and slag foaming**  
          **Royal Inst. of Tech. OD.Sichen** |
| 14:40   | **Chairperson: N.Sasaki (NSC)**                                                                |
| 14:40   | **Int. 8 (Invited Lecture) Reduction of dephosphorization slags using slag modification method in a hot metal bath**  
          **Northeastern Univ. of China OM.Jiang · D.Wang · C.Liu** |
| 15:10   | **Int. 9 Condensation of phosphorus as the 2CaO·SiO$_2$–3CaO·P$_2$O$_5$ solid phase in the CaO–FeO–SiO$_2$ flux system**  
          **The Univ. of Tokyo OH.Matsuura · X.Yang · X.Gao · F.Tsukihashi** |
| 15:30   | **Int. 10 Influence of formation layer around CaO on the dissolution rate in steelmaking slag**  
          **Tohoku Univ. ON.Maruoka · A.Ishikawa · H.Shibata · S.Kitamura** |
| 15:50   | Closing remark S.Kitamura (Tohoku Univ.)                                                        |
## High Temperature Processes

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