

International Organized Sessions

High Temperature Processes

2013/09/18 Lecture Room 1

Innovations in measurement of high temperature property and application to materials production process

09:20 ~ 09:25	Opening address M.Susa(Tokyo Inst. of Tech.)	
09:25 ~ 10:35	Chairperson:N.Saito(Kyushu Univ.),S.Sukenaga(Tohoku Univ.)	
09:25 ~ 09:55	Int. 1 (Invited Lecture)Structure and dynamics of oxide and fluoride melts: an in-situ high-temperature nuclear magnetic resonance point of view	... 684
	CEMHTI-CNRS OP.Florian·V.S.Kanian·A.Rakhmatullin·A.L.Rollet·J.P.Coutures·C.Bessada	
09:55 ~ 10:15	Int. 2 Application of multinuclear solid-state NMR to structural analysis of slag NSSMC OK.Kanehashi	... 686
10:15 ~ 10:35	Int. 3 Reduction of iron oxides in mould flux with additions of strong reducing agents Tokyo Inst. of Tech. OM.Wang·R.Endo·Y.Kobayashi·M.Susa	... 688
10:45 ~ 11:55	Chairperson:Y.Kobayashi(Tokyo Inst. of Tech.),R.Endo(Tokyo Inst. of Tech.)	
10:45 ~ 11:15	Int. 4 (Invited Lecture)Comprehensive understanding of surface and interface of liquid iron and its alloys Korea Univ. OJ.Lee	... 689
11:15 ~ 11:35	Int. 5 Composition dependence of surface tension of reciprocal oxide-fluoride melts Osaka Univ. OM.Suzuki·T.Tanaka·S.Tanaka, NSSMC M.Hanao·H.Yamamura	... 690
11:35 ~ 11:55	Int. 6 Viscosity of CaO-SiO ₂ -Al ₂ O ₃ -K ₂ O system Tohoku Univ. OS.Sukenaga, Kyushu Univ. T.Higo, NSSMC K.Kanehashi, Tohoku Univ. H.Shibata, Kyushu Univ. N.Saito·K.Nakashima	... 691
13:10 ~ 14:50	Chairperson:M.Nakamoto(Osaka Univ.),M.Suzuki(Osaka Univ.)	
13:10 ~ 13:40	Int. 7 (Invited Lecture)Characterisation of phase equilibria and dynamic steady state freeze linings in complex metallurgical slags The Univ. of Queensland OE.Jak·A.F.Mehrjardi·P.C.Hayes	... 693
13:40 ~ 14:00	Int. 8 Temperature dependence of emissivity and electrical resistivity of carbon fiber AIST OK.Higuchi·H.Watanabe·N.Yamada·N.Iwashita	... 697
14:00 ~ 14:20	Int. 9 Noncontact measurements of normal spectral emissivity,heat capacity and thermal conductivity of liquid cobalt Tohoku Univ. OJ.Takano·H.Higashi·M.Uchikoshi·M.Isshiki·M.Ohtsuka·H.Fukuyama	... 698
14:20 ~ 14:50	Int. 10 Reduction of radiative heat transfer by valence control of iron ions in mould flux Tokyo Inst. of Tech. OR.Maehashi·R.Endo·Y.Kobayashi·M.Susa	... 700
15:00 ~ 16:30	Chairperson:H.Fukuyama(Tohoku Univ.),T.Yoshikawa(The Univ. of Tokyo)	
15:00 ~ 15:30	Int. 11 (Invited Lecture)Thermophysical properties of liquid Cr-Fe-Ni alloys DLR OJ.Brillo·H.Kobatake	... 701
15:30 ~ 15:50	Int. 12 Marangoni effect on solution growth of SiC by temperature difference method using Fe-Si solvent The Univ. of Tokyo OS.Kawanishi·T.Yoshikawa·K.Morita	... 704

15:50 ~ 16:10	Int. 13 Electric resistivity and conduction mechanism of Sb_2Te_3 -GeTe system in liquid state	... 705
	Tokyo Inst. of Tech. O.R.Endo·S.Maeda·S.Kumamoto·Y.Kobayashi·M.Susa, AIST M.Kuwahara	
16:10 ~ 16:30	Int. 14 Effect of agitation on crystallization behavior of super-cooled melts characterized by electrical capacitance measurement	... 706
	Kyushu Univ. O.N.Saito, Tohoku Univ. S.Sukenaga, Fukuoka Inst. of Tech. Y.Ohta, Kyushu Univ. K. Nakashima	
16:30 ~	Closing remark H.Fukuyama(Tohoku Univ.)	