**Mb-P006** Room: Lounge Time: June 27 17:30-19:00

## Phase diagrams of SrGeO3 and CaGeO3 by calorimetric experiments

# kimiko Koyama[1], Masaki Akaogi[2], Toshihiro Suzuki[3]

[1] Dept.ofChem., Gakushuin Univ., [2] Dept. of Chem., Gakushuin Univ., [3] Depart. Chem. Gakushuin Univ.

Phase boundaries for the reactions SrGeO3(pseudo-wollastonite->phaseII->perovskite),CaGeO3(wollastonite->garnet->perovskite) were determined by calorimetric measurements. Eqilibium phase boundaries were determined as SrGeO3(pseudo-wo->phaseII):P(GPa)=0.0002T(C)+0.8, SrGeO3(phaseII->pv):P=0.0009T+4.1, CaGeO3(wo->gar):P=0.0018T-0.6, CaGeO3(gar->pv):P=-0.0015T+7.6. These studies indicade that the phaseII->pv boundary of SrGeO3 has a small positive slope, while the gar->pv boundary of CaGeO3 has a small negative slope.