

Public Customized Training Course on ‘Stable Isotope Geochemistry and its Application to the Mineral Resource Exploration’

(Venue : Mirinae room)

Date/Time	Program Description	Remarks
5.11 (Mon)	Registration and orientation	IS-Geo
09:50-10:00		
5.11 (Mon)	Stable Isotope Geochemistry 1	
10:00-11:00	Introduction	Prof. Insung Lee
11:10-12:10	History, Principles, Standards, Analytical methods, and Mass spectrometry	
12:10-13:30	Lunch	
13:30-14:30	Oxygen and hydrogen isotope system 1	
14:40-15:40	Oxygen and hydrogen isotope system 2	
15:50-16:50	Lab 1: Exercise on the O and H isotope system	
17:00-18:00	Lab 2: Exercise on the O and H isotope system	
5.12 (Tue)	Stable Isotope Geochemistry 2	
10:00-11:00	Oxygen and hydrogen isotope system 3	Prof. Insung Lee
11:10-12:10	Sulfur and carbon isotope system 1	
12:10-13:30	Lunch	
13:30-14:30	Sulfur and carbon isotope system 2	
14:40-15:40	Sulfur and carbon isotope system 3	
15:50-16:50	Lab 3: Exercise on the S and C isotope system	
17:00-18:00	Lab 4: Exercise on the S and C isotope system	
5.13 (Wed)	Applications to the study of mineral deposits	
10:00-11:00	Magmatic mineral systems	Prof. Insung Lee
11:10-12:10	Hydrothermal mineral systems	
12:10-13:30	Lunch	
13:30-14:30	Porphyry Cu deposits	
14:40-15:40	Volcanogenic massive sulfide deposits	
15:50-16:50	Non-magmatic mineral deposits	
17:00-18:00	Future of isotopic tracers for the mineral exploration and conclusions	
5.14 (Thu)	Magmatic Ni-Cu-PGE Deposits	
10:00-11:00	Deposit types and key geochemical principles	Prof. Edward M. Ripley
11:10-12:10	Deposit types and key geochemical principles(Continued)	
12:10-13:30	Lunch	
13:30-14:30	Requirements for the generation of magmatic sulfide-rich Ni-Cu-PGE deposits	
14:40-15:40	Requirements for the generation of magmatic sulfide-rich Ni-Cu-PGE deposits(Continued)	
15:50-16:50	The application of S, O, and Re-Os isotopic measurements to the study of magmatic Ni-Cu-PGE deposits	
17:00-18:00	The application of S, O, and Re-Os isotopic measurements to the study of magmatic Ni-Cu-PGE deposits(Continued)	
5.15 (Fri)	Magmatic Ni-Cu-PGE Deposits(Continued)	
10:00-11:00	Ni-Cu-PGE deposits associated with the Midcontinent Rift System, USA	Prof. Edward M. Ripley
11:10-12:10	Conduit style deposits: Noril'sk, Voisey's Bay, and Eagle	
12:10-13:30	Lunch	
13:30-14:30	Deposits in convergent zone settings	
14:40-15:40	Deposits in convergent zone settings(Continued)	
15:50-16:50	Low-sulfide PGE deposits	
17:00-18:00	Low-sulfide PGE deposits(Continued)	

※ The working language is English