

Symposium Program

Tuesday, May 9

Opening Ceremony

- 08:30-09:00 Registration
09:00-09:30 Opening Remarks & Welcoming Address
09:30-10:00 Group Photo & Coffee Break

Toward IPY 2007 ~ 8

Chairperson: Prof. Saito Sei-ichi (Hokkaido Univ.)

- 10:00 Doris Abele Characterizing the physiological stress response of Antarctic coastal benthos in a changing polar environment & ClicOPEN for IPY Cooperation
- 10:40 Coffee Break

Genome & Proteins from Polar Region

Chairperson: Dr. Hong Kum Lee (KOPRI)

- 11:00 Luisa Tutino The genome of marine Antarctica bacterium *Pseudoalteromonas haloplanktis* TAC125: cold adaptation & the use as cell factory
- 11:25 Sang Hoon Lee Microbial genes from DNA preserved in ancient Antarctic glacier
- 11:50 Charles Gerday About the adaptation strategies & biotechnological use of enzymes from Antarctic micro-organisms
- 12:15 Lunch

Genes & Physiology of Polar Organism

Chairperson: Dr. Sang Hoon Lee (KOPRI)

- 14:00 Simon Jarman DNA as a biomarker for studying the diet of marine predators
- 14:25 Hong Kum Lee Chitinase of Antarctic *Sanguibacter* sp. KOPRI
- 14:50 Hana Im Cold shock protein A of Antarctic *Streptomyces* sp. AA8321
- 15:15 Coffee Break
- 15:30 Xiaohang Huang Study on the acclimation & utilization of Antarctic microorganisms

15:55 Phang Siew-Moi Tolerance of Antarctic, temperate & tropical microalgae to temperature stress

From Molecules to Ecosystem in Polar Science

16:30-18:00 Poster Session

19:00-21:00 Reception by Director-General of KOPRI (Korea Polar Research Institute)

Wednesday, May 10

08:30-9:00 Registration

Toward IPY 2007 ~ 8

Chairperson: Dr. Doris Abele (AWI)

09:00 Takeshi Naganuma Microbiological & Ecological Responses to Global Environmental changes in polar regions (MERGE) for IPY Cooperation

09:40 Coffee Break

Polar Ecosystems & Environment (I)

Chairperson: Dr. In-Young Ahn (KOPRI)

10:00 Terry Whittedg Ecological significance of ice algae & phytoplankton primary production under decreasing ice thickness & extent in the Arctic Ocean

10:25 Tae Keun Rho Dynamics of phytoplankton & nutrients in the Bering Sea

10:50 Greg Mitchell Iron distribution & response of phytoplankton in the southern ocean

11:15 Coffee Break

11:30 Kyung Ho Chung Studies on the spatial & seasonal variability of metals in the Marian Cove

11:55 Hyung Chul Shin Differing marine ecological regimes over a mesoscale distance in the Southwest Atlantic Sector of Southern Ocean; eddies or sea ice?

12:20 Lunch

Polar Ecosystems & Environment (II)

Chairperson: Dr. Hyung Chul Shin (KOPRI) & Dr. Greg Mitchell (Scripps Institute of Oceanography)

14:00	Satoshi Imura	Ecosystematic & geohistory of Antarctic lake
14:25	In-Young Ahn	Study on <i>Laternula elliptica</i> , sentinel organism for monitoring environmental changes around Antarctic King Sejong Station
14:50	Carolin E Arndt	Crustaceae in Arctic & Antarctic sea ice: A review on knowledge & knowledge gaps
15:15	Coffee Break	
15:30	Hans-Urich Peter	Biological data, risk assessment & the development of management ideas for Fildes Peninsula & Ardley Island
15:55	Jeong-Hoon Kim	Nest distribution of skuas on Barton & Weaver Peninsulas of the King George Island, the Antarctic
16:20	Yasuhiko Naito	Role of advanced technology in marine animal science

From Molecules to Ecosystem in Polar Science

17:00-18:00 Poster Session

19:00-21:00 Banquet by Mayor of Incheon City

Thursday, May 11

08:30-9:00 Registration

Toward IPY 2007 ~ 8

Chairperson: Prof. Takeshi Naganuma (Hiroshima Univ.)

09:00	Saito Sei-ichi	Towards an integrated biophysical sea-ice observatory in the Pacific seasonal ice zone for IPY Cooperation
09:40	Coffee Break	

Biodiversity & Systematics of Polar Organisms

Chairperson: Prof. Phang Siew-Moi (Univ. Malaya)

10:00	Jang-Cheon Cho	Culturing & identification of uncultured prokaryotes in marine environments
10:25	Han-Gu Choi	Diversity and DNA barcoding of brown algae around the Dasan Station in the Arctic
10:50	Ji Hee Kim	Monitoring on terrestrial vegetation around the King Sejong Station
11:15	Coffee Break	
11:30	Arve Elvebakk	Diversity of Svalvard lichen

11:55 Jae-Seoun Hur Lichen flora of Barton Peninsula, King George Island
12:20 Lunch

From Molecules to Ecosystem in Polar Science

14:00-16:00 Poster Session
16:00-17:00 Lab Tour
19:00-21:00 Banquet by Chairman of KONPOR (Korea National Committee on Polar Research)

Friday, May 12

09:00 Excursion to Seoul