

Fellowship Program of Environment Management and Reclamation for Sustainable Mining

May 5 (Thurs.) – May 20 (Fri.), 2016
Seongnam & Kangwon, Republic of Korea



Korea International Cooperation Agency



Korea Mine Reclamation Corp.

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KOICA & CIAT

KOICA

The Korea International Cooperation Agency (KOICA) is a development aid agency of the Republic of Korea which was established in 1991. KOICA's mission is to reduce poverty, promote living standards and help realize sustainable, equitable and inclusive development in developing countries. To accomplish its mission, KOICA has been actively involved in enhancing developing countries' socio-economic infrastructure and institutions, empowering and providing the people of the developing world with opportunities for better lives and improving their well-being.

CIAT (Capacity Improvement & Advancement for Tomorrow) Programs

Human Resource Development (HRD) has been one of the most important factors in Korea's escape from the vicious cycle of poverty and underdevelopment which had existed for many decades. With scarce natural resources, HRD played a vital role in Korea's development; thus, Korea has emerged as an exemplary showcase of national development powered by HRD. From its own experience Korea came to fully recognize the significance of HRD. With extensive experience and know-how in HRD, Korea contributes greatly to the international community by sharing its unique development experience with other countries.

The CIAT Program provides opportunities to participants to gain first-hand knowledge of Korea's development experience. The programs are designed to enable the participants to apply what they have learned for the development of their home countries. Since 1991, KOICA has offered about 3,700 courses to more than 58,000 participants from 172 countries. There are a wide range of topics in the Program, including public administration, economic development, science and technology, agriculture and health, etc. In order to meet the changing needs of partner countries, KOICA always strives to renovate and improve its HRD programs.

Part I

PROGRAM OVERVIEW

1. Title: Fellowship Program of Environment Management and Reclamation for Sustainable Mining

2. Duration: May 5 (Thurs.) – May 20 (Fri.), 2016

3. Objectives

- a) To comprehend diverse mine hazards such as water pollution, soil contamination and learn mine reclamation technologies based on the type of mine hazards
- b) To learn how to build up the policy and system (law and institution) of mine hazard management
- c) To strengthen future cooperation in the mine hazard management and prevention among the participating countries through the establishment of action plan

4. Number of Participants

18 participants from 11 countries:

Rwanda(1), Bolivia(1), Azerbaijan(2), Uzbekistan(2), Sudan(2), Honduras(2), Mauritius(2), Belarus(2), Kyrgyzstan(1), Tanzania(2), Peru(1)

5. Language of Instruction: English

6. Venue: Seongnam & Kangwon, Republic of Korea

7. Implementing Agency: MIRECO (<http://www.mireco.or.kr>)

8. Accommodations: KOICA ICC

9. Qualifications of Applicants:

Mandatory	<ul style="list-style-type: none">a) Be nominated by his/her government;b) Be in good health both physically and mentally, to undergo the course;c) Has not participated in the same KOICA fellowship program in the past 3 years - unless otherwise specified;d) Show a high level of participation and commitment throughout the course and promote capacity building in his/her organization after the completion of the program;e) Work at ministry of mine or organizations directly related to mine hazard managementf) At least 5-year working experience in the field of mine hazard management
Preferable	<ul style="list-style-type: none">a) Be a government employee in a managerial positionb) Sufficient proficiency in spoken and written Englishc) Working knowledge of computers and PowerPoint software

	Azerbaijan	Uzbekistan	Belarus	Kyrgyzstan
Participating Organizations (No. of Participants)	Ministry of Ecology and Natural Resources (1) Ministry of Emergency Situations (1)	The State Committee on Geology and Mineral Resources (1) AO Uzbekcoal (1)	Ministry of Industry (1) Ministry of Natural Resources and Environmental Protection (1)	Ministry of Emergency Situations (1)
	Rwanda	Bolivia	Honduras	Peru
	Ministry of Natural Resources (1)	Ministry of Mining and Metallurgy (1)	Ministry of Energy, Natural Resources, Environment and Mines (2)	Ministry of Energy and Mines (1)
	Sudan	Mauritius	Tanzania	
	Ministry of Petroleum and Mining (1) Ministry of Environment (1)	Ministry of Environment, Sustainable Development, and Disaster and Beach Management (2)	Ministry of Energy and Minerals (1) Ministry of Environment (1)	

10. Closing Date for Application: April 1, 2016.

Part II**PROGRAM CONTENTS****1. PROGRAM MODULE**

Module	Main Lectures & Discussions	Study Visit
Module 1. Understanding of mine hazard management	<ul style="list-style-type: none">▷ Overview and history to mine development and reclamation management▷ Environment management (ecological and mining environment) for sustainable development▷ Mine development and safety	<ul style="list-style-type: none">- MIRECO HQ- KOICA Center
Module 2. Basics policy for mine hazard management	<ul style="list-style-type: none">▷ Mine hazard management policies and law in Korea and other countries▷ Post-mining land use in Korea and abroad	<ul style="list-style-type: none">- MIRECO HQ- KOICA Center
Module 3. Basic skill and technology on mine hazard reclamation	<ul style="list-style-type: none">▷ AMD (Acid Mine Drainage) generation cause and its treatment method▷ Soil pollution and remediation at natural resource development▷ Ecological recovery▷ Auto-measurement and monitoring technology for mine hazard prevention▷ GIS/or Mine reclamation planning using remotely piloted vehicle	<ul style="list-style-type: none">- MIRECO HQ- KOICA center
Module 4. Cast study and equipment usage training	<ul style="list-style-type: none">▷ Mine reclamation site (AMD treatment, forest recovery, tailing dam)▷ Post-mining land use site▷ Understanding of equipment use and measurement	<ul style="list-style-type: none">- Mine Reclamation Site- Mine Safety Center

Cultural Experience and Field Trips	<ul style="list-style-type: none">▷ Seoul City Tour (www.visitseoul.net)▷ Gyeongju Historical Sites (www.gyeongju.gyeongbuk.kr)▷ Samsung Electronics (www.samsung.com)▷ POSCO (www.posco.co.kr)
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1. GUIDELINES FOR THE PREPARATION OF THE COUNTRY REPORT

Program participants are requested to prepare and submit their country report individually or as a group to the MIRECO (Korea Mine Reclamation Corp.) program Manager via e-mail at jannakim@mireco.or.kr or thkim@mireco.or.kr no later than **April 22, 2016.**

Note. The KOICA's Fellowship Program includes a 'Country Report' session where participants have an opportunity to analyze each country's current status and circumstances in the program subject and share it with other participants and Korean experts. It aims to provide appropriate solutions and insights to the identified problems and issues of their countries.

The Country Report should be in MS PowerPoint or Word format. The length of the report should not exceed twenty A4-sized pages. The report should be written in English and double-spaced.

All participants are required to give a 15-minute presentation on their country report individually or as a group. For more effective presentations, a projector, slide projector, overhead projector, and multimedia TV will be available (PowerPoint presentations are preferred).

2. TOPICS TO BE COVERED IN THE COUNTRY REPORT

On the second day of the program, all participants will make an individual or group presentation titled "Country Report" following the guidelines below:

Based on what you have presented and discussed throughout the courses, you are requested to present an action plan on the last day of the workshop.

A. Main Topic : Mine hazard situation in each participating country

Possible subject 1: Policies in the areas of mining industry, mining damage and environment

- Mid and long term plans and policies in related areas

Possible subject 2: Relevant laws and administrative systems

- Structure of relevant laws, plans for legislation and the implementation of laws
- Administrative organizations in the areas of mining damage, mining industry and environment (organizational structure, manpower, etc.)
- Organization: Ministry of Mines, Ministry of Environment, Department of Mines, Department of Geological Survey and Mineral Exploration, etc.
- Law & Regulation: Mining Law, Mine Rules, Environment Law etc.

Possible subject 3: Environment management at mining sector

- Statistics on mining damage investigation, social and environmental disputes, and illegal mining
- Project which is funded by International organization such as UN, ADB, WB at mining or environmental sector

B. Details of Country Report Preparation

● National level service structure

- Introduce your organization including personnel, main roles, equipments and surveying vessels.
- Introduce your Ministry/Department/Bureau of Mining or Environmental Section (included mine hazard), describe the authorities responsible for the planning and implementation of mine damage management and reclamation, and attach the Ministry/Department/Bureau's service delivery structure chart including the number of workers engaged in mine hazard management.

● Strategic policies

- Describe government policies or guidelines on the above subjects. (Short-term or long-term plans: goals, priorities, strategies, etc.)

● Data collection, reporting and monitoring system

- Describe major problems with the current data collection, reporting and monitoring system.
- Is there any quality control and quality assurance activities?

● Statistical data on the following information (Please indicate the source of the data).

- Number of mines, type of produced mineral and its annual production amount
- Case of mine hazard occurrence, including ground subsidence, discharge of acid mine water

● Other relevant information

General information on mining industry
Is there any mine reclamation projects, realized by funding of international organization for example UN, WB, MBD and if yes which organization is handling those projects in your country?

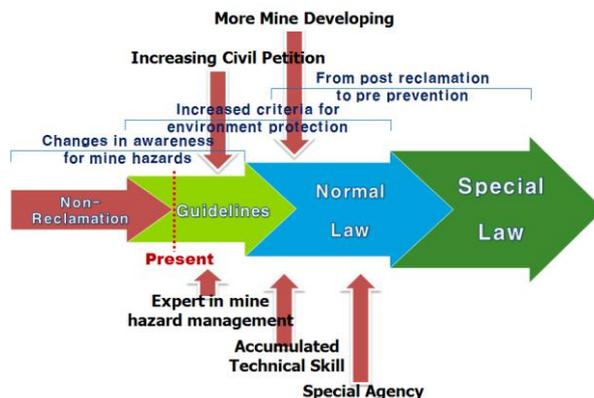
1. GUIDELINES FOR THE PREPARATION OF THE ACTION PLAN

All participants are requested to prepare a presentation on their action plan individually or as a group at the end of the course. The action plan is to identify each country's current problems and propose appropriate solutions in order to solve these problems.

The participants are encouraged to make the most of their weekends and leisure time to further their knowledge acquired from the program and better prepare their presentation for the action plan.

2. TOPICS TO BE COVERED IN THE ACTION PLAN

- Identify various problems related to each country's current situation of conflicts in mining sector
- Devise the best way to solve problems and make proposals.
- Consider how it will affect the current problems and what advantages it will bring in the future.
- Plans to utilize the project results
- Ripple effects of the project results on mining sector
- Establishment of cooperation with Korea



1. IMPLEMENTING AGENCY

MIRECO, Korea governmental agency (<http://www.mireco.or.kr>)

MIRECO is one of the quasi-government agencies under the Ministry of Trade, Industry, and Energy.

As a world-class organization that contributes to the nation's sustainable growth, MIRECO carries out businesses to prevent mine damage, promote regions, and support the coal and coal briquette industry.

By placing its highest priority on the co-existence of human beings and nature, MIRECO will grow to be a future-oriented and trustworthy Agency.



- **Mine Damage Prevention Projects for sustainable development**

The mining areas of the country are suffering from mine damages when a mine is developed, and the followed pollution from the closing. MIRECO restores the damages to nature and establishes comfortable environments by thorough investigation into mine damages and eradicates their fundamental cases.



- **MIRECO leads efforts to grow experts in the world**

MIRECO is doing its best to foster experts who can create the technology in the field of mine damage prevention to develop eco-friendly resources and restore areas damaged from mines. To this end, MIRECO provides opportunities to exchange advanced technologies for mine damage prevention by holding symposiums related with mine damage in Korea and overseas, transfers MIRECO's world-class technological skills and field expertise by running training programs in cooperation with those in charge of mine damage prevention in foreign governments' agencies.



2. REGULATIONS

- Participants should participate in the program to the best of their abilities
- Participants should refrain from engaging in political activities or any form of employment for profit or gain
- Participants must return to their home country upon completion of the program and resume work in their country
- Participants should not extend the length of the program or stay for personal convenience
- Participants are not permitted to change the flight schedule arranged by KOICA for personal convenience
- Participants should not be accompanied by any member of their family
- Participants are to assume responsibility for any personal expenses incurred regardless of implementation of the course
- Participants are required to strictly observe the course schedule and abide by the rules and regulations stipulated by the Korean government in respect to the program
- Participants should cooperate in preventing any sexual harassment and attend a short training session regarding 'Sexual Harassment Prevention' on the first day of KOICA orientation.

3. CONTACT INFORMATION

- **Korea International Cooperation Agency (KOICA)**

- **Program Manager: Ms. Hyung-won LEE**

- Phone: +82-31-740-0419
- Fax: +82-31-740-0684
- E-mail: leeh@koica.go.kr
- Websites: <http://www.koica.go.kr>
<http://training.koica.go.kr>
<http://www.facebook.com/koica.icc>

- **Program Coordinator: Ms. E Seul KI**

- Phone: +82-31-8017-2676
- Fax: +82-31-777-2680
- E-mail: eskey@global-inepa.org

- **Name of the Implementing Agency**

- **Program Manager: Ms. Janna KIM**

- Phone: +82-33-902-6575
- Fax: +82-33-902-6589
- E-mail: jannakim@mireco.or.kr
- Home page: <http://www.mireco.or.kr>

Appendix 1.

Brand Name of the KOICA Fellowship Program

KOICA has launched a brand-new name for the KOICA Fellowship Program in order to more effectively raise awareness about the program among the public and its partner countries.

In English, CIAT stands for Capacity Improvement and Advancement for Tomorrow and in Korean it means “seed (씨앗)” with hopes to contributing in the capacity development of individual fellows as well as the organizations and countries to which they belong.



Appendix 2.

facebook.com/koica.icc

The Fellows' Facebook is a place for fellows to ask questions and write comments on KOICA fellowship programs. So, if you have questions regarding our program, please feel free to join our Facebook community.



twitter.com/koica.icc

Do you have a Twitter account? It seems everyone does these days. If you have a Twitter account, be sure to follow us @koica_icc



Map of Korea



Appendix 4

HOW TO GET TO THE KOICA ICC

- Route: Incheon International Airport → Korea City Airport, Logis & Terminal (CALT) → KOICA International Cooperation Center (ICC)
- **Arrival at Incheon International Airport (<http://www.airport.kr>)**

Flow:

- ▶ Fill out Arrival Card (or Immigration Card), Customs Declaration Form, Quarantine Questionnaire (on board)
- ▶ Quarantine including animals and plants (on 2nd Floor)
- ▶ Present your Arrival Card, Passport and other necessary document to Passport Control
- ▶ Claim baggage on 1st Floor
- ▶ Customs Clearance
- ▶ Pass an Arrival Gate
- ▶ Go to the KOICA Counter, which is located between Exit 1~2

• **KOICA Counter at Incheon airport**



Location : Next to Exit 1 on the 1st
floor (No.9- 10)
Tel. : 82-32-743-5904
Mobile : 82-(0)10-9925-5901
Contact : **Ms. Jin-Young YOON**

- After passing through Customs Declaration, please go to the KOICA Counter (located between exit 1~2) at Incheon Airport. At the KOICA Counter, you can get detailed information about how to get to KOICA International Cooperation Center (ICC) and purchase limousine bus ticket for City Airport, Logis & Travel (CALT).
- All the KOICA staff at the Incheon Airport wears nametags or has signs for indication. If you cannot meet the KOICA staff at the counter, please purchase a limousine bus ticket from the bus ticket counter (located on the 1st Floor), and go to CALT Bus Stop No. 4A (or 10B). Please find the bus number 6103 and present your ticket to the bus driver. From Incheon Airport to CALT, the approximate time for travel will be between 70 to 90 minutes. When you arrive at CALT, you will find another KOICA staff who will help you reach the KOICA ICC. KOICA will reimburse the limousine bus fare when you arrive at KOICA ICC. Also, please be aware that there may be illegal taxis at the airport. Even if they approach you first, please do not take illegal taxis and check to see if they are KOICA staff.

• **KOICA Counter at CALT airport**



Location : Lounge on the 1st floor of
CALT airport
Mobile : 82-(0)10-9925-5901

- If the limousine bus is not available due to your early or late arrival from 22:00 to 05:30.
- Please contact the KOICA ICC reception desk
(Tel. 031-777-2600 / English announcement service is available 24 hours daily)
- The staff at the KOICA ICC reception desk will let you know how to use a taxi. The taxi fare from the airport to KOICA ICC is normally 90,000 Won.

※ KOICA won't reimburse the taxi fare if you use a taxi during the hours of 05:30 ~ 22:00.

• **From Incheon International Airport to the KOICA ICC through CALT**

- Take a City Air limousine bus at bus stop No.4A on the 1st Floor. Buses run every 10~15 minutes between the hours of 5:30 and 22:00.
- Meet the KOICA staff at the lounge on the 1st Floor of CALT upon arrival.
- Take a car arranged by the KOICA staff to the KOICA ICC (Expected time: 20 minutes)

"Please remember to read the Fellows' Guidebook. It is available from the Korean Embassy or KOICA Overseas Office in your country and provides valuable information regarding KOICA programs, allowances, expenses, regulations, preparations for departure and etc."