

APPLICATION/NOMINATION FORM FOR A GMA WORKSHOP 2019

Selection of Courses <i>(Please tick <input checked="" type="checkbox"/> where to attend!)</i>		Themes	Dates <i>(including orientation)</i>	Application due by
<input type="checkbox"/>	GMA-GT-2019-01: FMC	Flow Measurement and Calibration	March 23 – April 3, 2019	Jan 20, 2019
<input type="checkbox"/>	GMA-GT-2019-02: RI	Metrology in Ionizing Radiation	June 8 - 20, 2019	Mar 20, 2019

I. PERSONAL DATA <i>(names should be as same as stated in your passport)</i>		Photo file Attached. <i>(no older than recent 6 months)</i>
Gender: <input type="checkbox"/> Female (Ms.) <input type="checkbox"/> Male (Mr.)	Date of Birth (Date/Month/Year): 13/05/80	
First Name:	Passport Number:	
Family Name:	Date of Issue (Date/Month/Year): 07/25/15	
Nationality:	Date of Expiry (Date/Month/Year): 03/27/2025	

Complete Mailing Address (office)			
Name of Organization		Email	@
Street		Mobile	+ 63
Town		Phone (office)	+ 632
City/Province		Fax	+ 63
Country (& Post Code)		Web page	www.
Flight Itinerary (tentative)	<u>Date/Time/Flight # of arrival in Korea</u>	<u>Date/Time/Flight# of departure from Korea</u>	

II. PROFESSIONAL EXPERIENCES <i>(commencing with the most recent employment career)</i>		
Years of Service (From – to)	Name and place of Employer (Country)	Title of position/laboratory(section)
Jan/2010 Present	0000000000 (00000000000000)	
Mar/2005 Dec/2009	0000000000 (00000000000000)	

III. EDUCATIONAL BACKGROUND <i>(commencing with the most recent academic degree/course)</i>					
Years attended		Name of Institution	Place/Country	Major (Field of study)	Degree/Certificate awarded
from	to				
Mar/1986	Feb/1997				M.S.
Mar/1974	Feb/1980				B.S..

IV. KNOWLEDGE OF LANGUAGES <i>(please tick <input checked="" type="checkbox"/> where appropriate!)</i>									
	SPEAKING			READING			WRITING		
	Good	Fair	Not easily	Good	Fair	Not easily	Good	Fair	Not easily
ENGLISH									
OTHERS ()									

V. DESCRIPTIONS OF CURRENT JOB <i>(Please describe your current job as detailed as possible! Use more space as appropriate!)</i>
<ul style="list-style-type: none"> ● ● ●

VI. PRIMARY OBJECTIVES INTENDED TO ACHIVE BY PARTICIPATING IN THIS COURSE

(Use more space as appropriate.)

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VII. PLAN TO APPLY AND SHARE THE RESULTS OF YOUR STUDY AT KRISS

(* How to share what you have learned within the community of your organization and further use it for offering services for your customers in your country. Please use more space as appropriate!)

[Examples]

- 1) Ooooooooooooo in a form of seminar for sharing results...
- 2) Ooooooooooooo in a form of developing/improving new services for customers (e.g. training of calibration skills, ...)
- 3) etc....

VIII. STATEMENT OF MEDICAL EXAMINATION [to be filled in and signed by the medical doctor]

I, as a qualified medical doctor, hereby certify that I have examined the above candidate and found him/her in good health, free from infectious diseases and able physically and mentally to carry out any relevant duties away from his/her home.

Date: (Date/Month/Year):

Name of examining physician

Name of applicant:

Seal and Signature of examining physician

IX. RULES & REGULATIONS [IMPORTANT!]

I, the undersigned, hereby agree to strictly abide by the "Rules and Regulations" as specified below during my participation in the subject GMA course:

1. Participants shall conduct themselves at all times in a manner compatible with their status as participants in the subject GMA course
2. Participants shall participate in the GMA group and/or individual courses to the best of their abilities;
3. Participants should refrain from engaging in political activity or any form of employment for profit or gain;
4. Participants must return to their home country upon completion of the subject course of GMA and resume work in their country;
5. Participants should not extend the length of stay in Korea for personal convenience;
6. Participants whose flights are supported by GMA or by any other donor are **not permitted** to change their flights for their personal convenience;
7. Participants should not be accompanied by any member of their family;
8. Participants are to assume responsibility for any personal expenses incurred regardless of implementation of the course; and
9. Participants are required to strictly observe the course schedule and abide by the **rules and regulations stipulated by the KRISS and their sponsors, and the laws of the Republic of Korea.**
10. Any form of harassment or insult, including but not limited to misconduct arising out of racial/ethnic, gender or class discrimination, whether it be physical or verbal, will not be tolerated and will be dealt with in accordance with the laws of the Republic of Korea and the rules and regulations of KRISS.
11. Especially, **sexual harassment**, defined as a form of behavior characterized by sexually connotative words, acts or gestures that could undermine individual dignity and by which the victim takes offense, is regarded as a serious misconduct and will be dealt with accordingly.
12. Offenders who fail to comply with the above **Rules and Regulations** laws shall be subject to punishment in accordance with the laws of the Republic of Korea and the regulations of KRISS, **which include sending an official letter of complaint to the offender's employer and government and instant deportation with ban of the offender's participation in the future GMA programs.**

Date (Date/Month/Year): 00 / 00 /2019

Name of Applicant: _____

Signature of Applicant: _____

Organization: _____

Country: _____

X. OFFICIAL APPLICATION AND NOMINATION

I hereby certify that the statements made by me in this application/nomination are true and correct in every respect.

Date (Date/Month/Year): 00 / 00 /2019 _____

Name of Applicant: _____

Signature of Applicant: _____

Organization: _____

Country: _____

I hereby certify that the above information supplied by the applicant is complete and correct and that the applicant has been officially nominated to participate in the subject GMA course.

Date (Date/Month/Year): 00 /00 /2019 _____

Name in Full: _____

Email Address: _____

Position/Title: _____

Organization: _____

Signature of Nominator: _____

Country: _____

XI. TUITION FEE and PAYMENT: US\$750 US\$1,500

(*→ **Before making application**, please contact the workshop coordinator who will advise you of your tuition fee category applicable!) (* MR. SANGWOOK SEO swseo@kriss.re.kr OR PKOKOREA@GMAIL.COM).

- Tuition is to be paid (**bank transfer**) by **the designated date for each course** as below:
 - **February 20, 2019 (FMC workshop participants);** and
 - **April 30, 2019 (RI workshop participants);**
- **Invoice is not issued separately.** A receipt might be issued upon the participant's arrival at KRISS.

XII. BANKING INFORMATION

- Bank Name: Kook-Min Bank (Yuseong Branch)
- **SWIFT Code:** CZNBKRSE
- **ACCOUNT Number:** 461-01-0184-494
- Account Holder's Name: Korea Research Institute of Standards and Science (KRISS)
- Bank Address: 1F, #468-3, Bongmyeong-dong, Yuseong-gu, Daejeon, Korea
- Please make sure that the tuition fee should be paid by the **designated dates of payment for each course**, in **bank transfer** to the official bank account of KRISS that is designated above.
- **All handling and banking charges** raised both to the remitter and beneficiary shall **be met by the remitter**, so that the **total amount of the tuition fee should be received** by KRISS with no reduction on it.
- For confirmation of the payment, the **bank statement** should be Emailed (or Faxed) to: Korea Research Institute of Standards and Science (Attn. Mr. Sangwook SEO at swseo@kriss.re.kr; Fax +82-42-868-5565)
- **Please make sure that the bank statement** should be clearly stating the GMA course ID (GMA-GT-2019-01, GMA-GT-2019-02) and the acronym of your organization:
[Examples: GMA-GT-2019-01-VMI or GMA-GT-2019-02-KEBS]

- **NOTE**→ A copy of **passport, recent photo file, and CV** of each participant **SHOULD** be accompanied by the application form in order that your application might be made complete and officially accepted.

Theme: Flow Measurement and Calibration [FMC]

Dates: March 25 (Mon) - April 3 (Wed), 2019

Organized by: Global Metrology Academy (GMA), KRISS

Workshop Overview

[GMA-GT-2019-01-FMC]

Applications: by Jan 20, 2019

The Global Metrology Academy of KRISS offers workshops to meet the needs of metrology HRD of the customers both at home and from abroad who are responsible for metrology and related functions of national quality infrastructure of the nation. The workshop [GMA-GT-2019-01-FMC] is the first one scheduled to be offered in 2019. Its main theme is flow measurement and calibration (FMC), to be presented in six (6) modules consisting of air speed, low pressure gas flow, high pressure gas flow, liquid(water) flow, and liquid (hydrocarbon) flow.

With its main target audience of **intermediate level** of metrologists, the FMC workshop will deliver the concepts of the traceability and measurement standards along with other key subjects of FMC that participants need to obtain for their future career as leaders in their local and global metrology communities.

As an effort to yield as much practical benefits as possible for participants, every session of the FMC workshop is strategically designed that technical lectures are effectively combined with hands-on laboratory exercises to follow. By the end of the workshop, participants might have better understanding of basic knowledge, skills, and information as up to dated on the key elements of metrology in FMC. It will enable them to offer better measurement services for their customers. In addition, participants will be given a two-day session of metrology in general (MiG) to learn selected fundamental subjects of metrology, such as uncertainty in measurement, the CIPM MRA requirements covering key comparison (KC), calibration and measurement capabilities (CMC), traceability, revised SI, and QMS.

Outline of Workshop Program [Subject to modifications*]**

Modules	Subjects	Chief Lecturers
Orientation	Introduction and brief tour (* to be offered for participants who will arrive by Friday of the week before opening.)	GMA
MiG (Days 1-2)	Metrology in General - FOUR (4) lectures dealing with the fundamentals of metrology in general	Dr. Jongseon PARK (jspark@kriss.re.kr)
FMC	Flow Measurement and Calibration - Seven (7) intensive laboratory sessions with technical lectures and exercises combined	Dr. Woong KANG (woong.kang@kriss.re.kr)
FMC-01 (Day 3)	Air Speed Measurement and Calibration	Dr. Yong Moon CHOI (ymchoi@kriss.re.kr)
FMC-02 (Day 3)	Low Pressure Gas Flow Measurement and Calibration	Dr. Woog KANG (woong.kang@kriss.re.kr)
FMC-03 (Day 4)	High Pressure Gas Flow Measurement and Calibration	Dr. Woog KANG (woong.kang@kriss.re.kr)
FMC-04 (Day 4)	Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
PLR (Day 5)	Presentation of Lab Reports	Participants, GMA
FMC-05 (Day 8)	Liquid(Water) Flow Measurement and Calibration	Dr. Sejong CHUN (sjchun@kriss.re.kr)
FMC-06 (Day 8)	Liquid(Hydrocarbon) Flow Measurement and Calibration	Dr. Seok Hwan LEE (seokhwan.Lee@kriss.re.kr)
FMC-07 (Day 9)	Intensive Laboratory Session with Exercises	Dr. Woog KANG (woong.kang@kriss.re.kr)
FMC (Days 10)	Performance test, Wrap-up & Closing	GMA

Knowledge and skills to be obtained

At the end of the workshop, participants will become familiar with fundamental knowledge and skills on the key subjects of measurement standards, traceability, calibration and uncertainty in the fields of flow measurement and calibration along with the key measuring instruments. Intensive laboratory sessions (ILS) are effectively combined with lectures and hands-on exercises in ways that allow participants to obtain basic skills required for offering quality services for customers. A two-day session of metrology in general (MiG) will offer participants broad perspectives that will help them grow up to take the leading role in advancing the nation-wide measurement system up to the international level.

Who should attend!

Metrologists who are working on R&D and measurement services in the fields of flow measurement and calibration.

Applications

Applications to be accepted: by January 20, 2019

Contact Point: Application and Inquiry

For applications and further information about participation in the course, please contact**
Sangwook SEO, Senior Coordinator, Global Metrology Academy (GMA), KRISS
swseo@kriss.re.kr

Workshop Program Overview: Modules, Lectures, Hands-on Exercises * *subject to modifications*

Mar 22 (Fri)	Arrival at Daejeon, check-in at the Hotel Graytone in Daejeon	recommended date of arrival at Daejeon, Korea
Mar 23 (Sat)	Orientation Session	10:00-12:00 (provisional)
Mar 24 (Sun)	Free	
MiG	Metrology in General: fundamentals of metrology and quality	Mar 25 (Mon) - 26 (Tue)
	Four (4) lectures and exercises (uncertainty evaluation)	Lecturers
DAY 1 (Mon) Mar 25	MiG-01 CIPM MRA: KC-CMC-Traceability in Measurement	Dr. Chu-Shik KANG, KRISs
	MiG-02 Revised SI and Fundamental Constants	Dr. Ho Seong LEE, KRISs
DAY 2 (Tue) Mar 26	MiG-03 QMS Talk	Dr. Jongseon PARK, KRISs
	MiG-04 Uncertainty in Measurement (including exercises)	Dr. Chu-Shik KANG, KRISs
FMC	Flow Measurement and Calibration	Mar 27(Wed) - 28(Thu), Apr 01(Mon) - 04(Thu)
	Intensive Laboratory Session (ILS) with lectures and exercises	(L) Lecture, (H) Hands-on exercises
FMC-01	Air Speed Measurement and Calibration	Mar 27 (Wed)
DAY 3 (Wed) Mar 27	(FMC-01-L-1) Fundamentals of Fluid Flow	Dr. Yong Moon CHOI (ymchoi@kriss.re.kr)
	(FMC-01-L-2) Air Speed System&Anemometer and Uncertainty	Dr. Yong Moon CHOI (ymchoi@kriss.re.kr)
	[FMC-01-H] Hands-on Exercises: Air Speed Measurement and Calibration	Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
FMC-02	Low Pressure Gas Flow Measurement and Calibration	Mar 27 (Wed)
DAY 3 (Wed) Mar 27	(FMC-02-L-1) Low Pressure Gas Flow System and Uncertainty	Dr. Woong KANG (woong.kang@kriss.re.kr)
	[FMC-02-H] Hands-on Exercises: Low Pressure Gas Flow Measurement	Mr. Youn Kyun Oh (oyk@kriss.re.kr)
FMC-03	High Pressure Gas Flow Measurement and Calibration	Mar 28 (Thu)
DAY 4 (Thu) Mar 28	(FMC-03-L-1) High Pressure Gas Flow System	Dr. Woong KANG (woong.kang@kriss.re.kr)
	(FMC-03-L-2) Uncertainty of High Pressure Gas Flow System	Dr. Woong KANG (woong.kang@kriss.re.kr)
	[FMC-03-H] Hands-on Exercises: High Pressure Gas Flow Measurement	Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
FMC-04	Flow Meters	Mar 28 (Thu)
DAY 4 (Thu) Mar 28	(FMC-04-L-1) Differential Pressure Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
	(FMC-04-L-2) Linear Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
	(FMC-04-L-3) Mass Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
DAY 5 (Fri) Mar 29	Presentation of Lab Reports	Mar 29 (Fri)
DAY 6-7 (Sat-Sun) Mar 30-31	Free	
FMC-05	Liquid(Water) Flow Measurement and Calibration	Apr 1 (Mon)
DAY 8 (Mon) Apr 1	(FMC-05-L-1) Liquid Flow System of Water	Dr. Sejong CHUN (sjchun@kriss.re.kr)
	(FMC-05-L-2) Uncertainty of Water Flow System	Dr. Sejong CHUN (sjchun@kriss.re.kr)
	[FMC-05-H] Hands-on Exercises : Water Flow Measurement and Calibration	Mr. Byung Ro Yoon (bryoon@kriss.re.kr)
FMC-06	Liquid(Hydrocarbon) Flow Measurement and Calibration	Apr 1 (Mon)
DAY 8 (Mon) Apr 1	(FMC-06-L-1) Liquid Flow System of Hydrocarbon	Dr. Seok Hwan LEE (seokhwan.lee@kriss.re.kr)
	(FMC-06-L-2) Uncertainty of Hydrocarbon Flow System	Dr. Seok Hwan LEE (seokhwan.lee@kriss.re.kr)
	[FMC-06-H] Hands-on Exercises : Hydrocarbon Flow Measurement and Calibration	Mr. Byung Ro Yoon (bryoon@kriss.re.kr)
FMC-07	Intensive Laboratory Session with Exercises	Apr 2 (Tue)
DAY 9 (Tue) Apr 2	[FMC-07-H] Hands-on Exercises (in groups depending on individual interests)	Dr. Woong KANG, Mr. Youn Kyun Oh
	Air Speed, Low Pressure Gas, High Pressure Gas, Water, Hydrocarbon Flow system	Mr. Saeng Hee LEE, Mr. Byung Ro Yoon
FMC	Performance Evaluation Test, Individual Lab Visits, Closing	Apr 3 (Wed)
DAY 10 (Wed) Apr 3	[Performance Evaluation Test]	GMA
	[Development/Presntation of Action Plans]	Participants, GMA
	Closing Session (Evaluation of the workshop, Certificate awarding)	
Apr 3-4 (Wed-Thu)	Departure: APR 03(Wed) -04(Thu)	* Depending on the flight itinerary

Daily Program (Provisional)

Language of the course: **English**

Mar 22 (Fri)	Arrival at Daejeon, check-in at the Hotel Graytone	
Mar 23 (Sat)	Orientation Session	10:00-12:00
Mar 24 (Sun)	Free	
Mar 25 (Mon)	Opening & Metrology in General (MiG)	Fluid Flow Lab (Seminar room, 2nd floor)
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:00-09:45	Greetings and Introduction to KRISS and the GMA Course	
10:00-10:30	Opening session	
10:30-12:30	MiG-01 KC-CMC-Traceability in Measurement	Dr. Chu-Shik KANG, KRISS
12:30-14:00	Lunch	KRISS cafeteria (2nd floor)
14:00-16:00	MiG-02 Revised SI with Fundamental Constants	Dr. Ho Seong LEE, KRISS
16:00-16:30	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
Mar 26 (Tue)	Metrology in General (MiG)	Fluid Flow Lab (Seminar room, 2nd floor)
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	MiG-03: QMS Talk	Dr. Jongseon PARK, KRISS
11:00-12:30	MiG-04: Uncertainty in Measurement	Dr. Chu-Shik KANG, KRISS
12:30-14:00	Lunch	KRISS cafeteria (floor 2)
14:00-16:30	MiG-04: Uncertainty in Measurement (including exercises)	Dr. Chu-Shik KANG, KRISS
16:30-17:00	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
FMC-01	Air Speed Measurement and Calibration	Fluid Flow Lab (Seminar room, 2nd floor)
Mar 27 (Wed)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[FMC-01-L-1] Fundamentals of Fluid Flow	Dr. Yong Moon CHOI (ymchoi@kriss.re.kr)
10:30-11:30	[FMC-01-L-2] Air Speed System&Anemometer and Uncertainty	Dr. Yong Moon CHOI (ymchoi@kriss.re.kr)
11:30-12:30	(FMC-01-H) Hands-on Exercises: Air Speed Measurement and Calibration	Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
12:30-14:00	Lunch	KRISS cafeteria (2nd floor)
FMC-02	Low Pressure Gas Flow Measurement and Calibration	Fluid Flow Lab (Seminar room, 2nd floor)
14:00-15:30	[FMC-02-L-1] Low Pressure Gas Flow System and Uncertainty	Dr. Woong KANG (woong.kang@kriss.re.kr)
15:30-17:00	(FMC-02-H) Hands-on Exercises: Low Pressure Gas Flow Measurement	Mr. Youn Kyun Oh (oyk@kriss.re.kr)
17:00-17:30	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
FMC-03	High Pressure Gas Flow Measurement and Calibration	Fluid Flow Lab (Seminar room, 2nd floor)
Mar 28 (Thu)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[FMC-03-L-1] High Pressure Gas Flow System	Dr. Woong KANG (woong.kang@kriss.re.kr)
10:30-11:30	[FMC-03-L-2] Uncertainty of High Pressure Gas Flow System	Dr. Woong KANG (woong.kang@kriss.re.kr)
11:30-12:30	(FMC-03-H) Hands-on Exercises: High Pressure Gas Flow Measurement	Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
12:30-14:00	Lunch	KRISS cafeteria (2nd floor)
FMC-04	Flow Meters	Fluid Flow Lab (Seminar room, 2nd floor)
14:00-15:00	(FMC-04-L-1) Differential Pressure Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
15:00-16:00	(FMC-04-L-2) Linear Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
16:00-17:00	(FMC-04-L-3) Mass Flow Meters	Dr. Ki Won LIM (kwlim@kriss.re.kr)
17:00-17:30	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
Mar 29 (Fri)	Presentation of Lab Reports	GMA
09:00-09:30	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
10:00-12:00	Presentation(1): six(6) participants of Lab Reports (* 20 minutes each, including Q&A)	
12:00-13:30	Lunch	KRISS cafeteria (2nd floor)
13:30-14:30	Presentation(2): three (3) participants of Lab Reports (* 20 minutes each, including Q&A)	
14:30-15:00	Tea break	
15:00-15:30	Presentation of UST (* to be confirmed)	
15:30-16:00	From KRISS to Hotel (* ride offered by the Hotel Graytone)	Participants
Mar 30 (Sat)	FREE	GLOBAL METROLOGY ACADEMY
Mar 31 (Sun)	FREE	

FMC-05	Liquid(Water) Flow Measurement and Calibration	Tech. Service Bldg (Seminar RM #1, 1st floor)
Apr 1 (Mon)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[FMC-05-L-1] Liquid Flow System of Water	Dr. Sejong CHUN (sjchun@kriss.re.kr)
10:30-11:30	[FMC-05-L-2] Uncertainty of Water Flow System	Dr. Sejong CHUN (sjchun@kriss.re.kr)
11:30-12:30	(FMC-05-H) Hands-on Exercises: Water Flow Measurement and Calibration	Mr. Byung Ro Yoon (bryoon@kriss.re.kr)
12:30-14:00	Lunch	KRISS cafeteria (2nd floor)
FMC-06	Liquid(Hydrocarbon) Flow Measurement and Calibration	Tech. Service Bldg (Seminar RM #1, 1st floor)
14:00-15:00	(FMC-06-L-1) Liquid Flow System of Hydrocarbon	Dr. Seok Hwan LEE (seokhwan.lee@kriss.re.kr)
15:00-16:00	(FMC-06-L-2) Uncertainty of Hydrocarbon Flow System	Dr. Seok Hwan LEE (seokhwan.lee@kriss.re.kr)
16:00-17:00	(FMC-06-H) Hands-on Exercises: Hydrocarbon Flow Measurement & Calibration	Mr. Byung Ro Yoon (bryoon@kriss.re.kr)
17:00-17:30	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
FMC-07	Intensive Laboratory Session with Exercises	Tech. Service Bldg (Seminar RM #1, 1st floor)
Apr 2 (Tue)	Hands-on Exercises (in groups depending on individual interests)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-12:30	Hands-on Exercises (in parallel sessions) <i>[Air Speed, Low Pressure Gas, High Pressure Gas, Water, Hydrocarbon Flow system]</i>	Dr. Woong KANG, Mr. Youn Kyun Oh (oyk@kriss.re.kr) Mr. Byung Ro Yoon (bryoon@kriss.re.kr) Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
12:30-14:00	Lunch	KRISS cafeteria (2nd floor)
14:00-16:30	Hands-on Exercises (in parallel sessions) <i>[Air Speed, Low Pressure Gas, High Pressure Gas, Water, Hydrocarbon Flow system]</i>	Dr. Woong KANG, Mr. Youn Kyun Oh (oyk@kriss.re.kr) Mr. Byung Ro Yoon (bryoon@kriss.re.kr) Mr. Saeng Hee LEE (sanghee@kriss.re.kr)
16:30-17:00	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
FMC	Performance Evaluation Test, Closing	Tech. Service Bldg (Seminar RM #1, 1st floor)
Apr 3 (Wed)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRISS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-11:00	[Performance Evaluation Test]	
11:00-12:30	Elaboration/Presentations of Action plans	Participants, GMA
12:30-13:30	Lunch	KRISS cafeteria (2nd floor)
13:30-14:30	Evaluation of the course (written & oral)	
14:30-15:00	Closing session (certificate awarding)	
15:00-15:30	From KRISS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
Apr 3-4 (Wed-Thu)	Departure (April 3- 4)	* depending the flight itinerary of participants
<p>* Participants are supposed to take the airport limousine bus bound for Incheon airport.</p> <p>* Ride to the bus stop near the Hotel Graytone will be provided by the Hotel Graytone in cooperation with GMA, KRISS.</p> <p>※ Dress code: Smart casual</p>		

Qualification

1. The applicant should be duly nominated by the employer, whose official seal and signature should be put on the application/nomination form.
2. The applicant should be an employee of the national metrology institute (NMI) or measurement service laboratory at the time of application.
3. The applicant should be engaged in R&D and services in the subjects of workshop;
4. The applicant should be a university/college graduate or have equivalent professional career and knowledge on themes of the workshop.
5. For the sake of effectiveness, the applicant is required to have a good command of **English**.
6. The applicant should be healthy both physically and mentally enough to go through the whole programs of the workshop.

Requirements: applications are accepted by January 20, 2019 along with the following requirements.

1. **An official nomination** by the employer with the official seal and the signature of the top management of the employer;
2. A copy of the **curriculum vitae** of the applicant, describing the academic background and professional experience in detail;
3. A copy of **passport** as valid for more than six (6) months as of the expected date of arrival at Korea;
4. **Laboratory report and Action Plan:** Participants are supposed to submit their laboratory reports and draft action plans according to the template to be provided later on; and
5. Plan of sharing the results of his/her study in the GMA workshop for their institution and the nation.

Number of participants: each GMA workshop will be operated with around 10 participants.

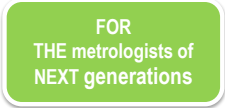
Financial Arrangements

- Participants and their employers are responsible for paying all expenses of the tuition fees, airline tickets, accommodations and meals, etc. required for the participants' travel to and stay in Korea.
- Lunches for eight (8) working days are offered free to ALL participants.
- Subject to the availability of fund, additional financial assistance might be discussed for a limited number of people from developing countries.

1. Tuition fees	<p>① Amount: US\$750/US\$1,500 per person</p> <ul style="list-style-type: none"> ☞ Two different categories of the tuition fees are applicable according to the economic performance of the applicant's country. ☞ Please contact the coordinator, BEFORE making applications, to get confirmed of the tuition fee category applicable for you.
2. Banking information	<p>② Applicants are supposed to remit the tuition fees by bank transfer to the official bank account of KRISS.</p> <ul style="list-style-type: none"> ☞ Payment should be made by February 20, 2019 which will make the application complete. ☞ Please make sure that all the handling and banking charges raised both to the remitter and beneficiary should be paid by the remitter, so that the net amount of tuition fees (US\$750 or US\$1,500) could be received by KRISS. <p>③ Official bank account of KRISS</p> <ul style="list-style-type: none"> - Bank name: Kook-Min Bank (Branch: Yuseong Branch) - Swift code: CZNBKRSE - Account number: 461-01-0184-494 - Account holder's name: Korea Research Institute of Standards and Science (KRISS) - Bank address: 1F, #468-3, Bongmyeong-dong, Yuseong-gu, Daejeon, Republic of Korea ☞ invoices will not be issued separately if otherwise requested. (* Receipts might be issued upon the participant's arrival at KRISS.) ☞ The statement of bank transfer should be sent to KRISS either by Email (swseo@kriss.re.kr) or FAX (+82-42-868-5565) with attention to the GMA course coordinator.
2. Living expenses	<p>④ Participants are responsible for paying living expenses in Korea including accommodations and meals.</p> <p>⑤ For selected participants from the developing world, KRISS might provide free accommodations, subject to its financial availability.</p> <ul style="list-style-type: none"> ☞ Lunch for eight(8) working days will be offered free to ALL participants. <p>⑥ Please note that expenses for all other meals shall be paid by the participants.</p> <ul style="list-style-type: none"> ☞ Participants are advised to bring some pocket money of their own for incidental expenses. <p>⑦ It is likely that participants will stay at the Hotel Graytone, Dunsan in Daejeon. (http://www.graytone.co.kr/)</p> <ul style="list-style-type: none"> ☞ The room rate (around US\$55 per night per room) includes breakfast, tax, and service charge.
3. Airline tickets	<p>⑧ Participants and their employers are responsible for purchasing the airline tickets for the participants.</p>
4. Local Transportation	<p>⑨ The KRISS travel agent will pick up the participants upon their arrival at the Incheon (ICN) international airport of Seoul.</p> <ul style="list-style-type: none"> ☞ Participants are requested to advise the workshop coordinator of their flight itinerary to and from Korea AS SOON AS Possible. <p>⑩ The KRISS travel agent will help the participants to take the airport limousine bus bound for Daejeon.</p> <ul style="list-style-type: none"> ☞ The bus tickets (around US\$23 one way) are to be bought by the participants. ☞ Upon your arrival at the bus stop in Daejeon ("Government Complex-Daejeon"), the staff of the Hotel Graytone will be meeting you to take you to the hotel.

Every applicant and participant should commit to read, strictly abide by, and respect the following rules and regulations as specified below that GMA endorses in implementing the GMA courses:

1. Participants shall conduct themselves at all times in a manner compatible with their status as participants in the subject GMA course;
2. Participants shall attend, to the best of their abilities, all sessions of the GMA group and/or individual courses they are participating in;
3. Participants shall refrain from engaging in political activity or any form of employment for profit or gain;
4. Participants shall return to their home country upon completion of the subject course of GMA and resume work in their country;
5. Participants shall not extend the length of stay in Korea for personal convenience;
6. Participants whose flights are supported by GMA and other donor organizations are not permitted to change their flights for their personal convenience;
7. Participants shall not be accompanied by any member of their family;
8. Participants shall assume responsibility for any personal expenses incurred regardless of implementation of the course; and
9. Participants are required to strictly observe the course schedule and abide by the **rules and regulations stipulated by the KRIS and their sponsors, and by the laws of the Republic of Korea.**
10. Any form of harassment or insult, including but not limited to misconduct arising out of racial/ethnic, gender or class discrimination, whether it be physical or verbal, will not be tolerated and will be dealt with in accordance with the laws of the Republic of Korea and the rules and regulations of KRIS.
11. Especially, **sexual harassment**, defined as a form of behavior characterized by sexually connotative words, acts or gestures that could undermine individual dignity and by which the victim takes offense, is regarded as a serious misconduct and will be dealt with accordingly.
12. Offenders who fail to comply with the above **Rules and Regulations** laws shall be subject to punishment in accordance with the laws of the Republic of Korea and the regulations of KRIS, **which include sending an official letter of complaint to the offender's employer and government and instant deportation with ban of the offender's participation in the future GMA programs.**



Applications and Inquiry!

For any further information about participation in the subject course and GMA programs, please contact:

Sangwook SEO Senior Coordinator, Global Metrology Academy (GMA), KRIS	swseo@kriss.re.kr TEL + 82-42-868-5440 Fax + 82-42-868-5565
Mr. Yun Suk HAN Coordinator, Global Metrology Academy (GMA), KRIS	han@kriss.re.kr TEL + 82-42-868-5531 Fax + 82-42-868-5565



Theme: Metrology in Ionizing Radiation (RI)

Dates: June 10 (Mon) - June 20 (Thu), 2019

Organized by: Global Metrology Academy (GMA), KRISs

Workshop Overview

[GMA-GT-2019-02-RI]

Applications: by March 20, 2019

The Global Metrology Academy of KRISs offers workshops to meet the needs of metrology HRD of the customers both at home and from abroad who are responsible for metrology and related functions of national quality infrastructure of the nation. The workshop [GMA-GT-2019-02-RI] is the second one scheduled to be offered in 2019. Its main theme is metrology in ionizing radiation (RI) measurement, to be presented in three (3) modules consisting of ionizing radiation dosimetry, radioactivity, and neutron measurement and calibration.

With its main target audience of basic/intermediate level of metrologists, the RI workshop will deliver the concepts of the traceability and measurement standards along with other key subjects of metrology in RI that participants need to obtain for their future career as leaders in their local and global metrology communities.

As an effort to yield as much practical benefits as possible for participants, every session of the RI workshop is strategically designed that technical lectures are effectively combined with hands-on laboratory exercises to follow. By the end of the workshop, participants might have better understanding of basic knowledge, skills, and information as up to dated on the key elements of metrology in RI. It will enable them to offer better measurement services for their customers. In addition, participants will be given a two-day session of metrology in general (MiG) to learn selected fundamental subjects of metrology, such as uncertainty in measurement, the CIPM MRA requirements covering key comparison (KC), calibration and measurement capabilities (CMC), traceability, revised SI, and QMS.

Outline of Workshop Program [* *subject to modification*!]

Modules	Subjects	Chief Lecturers
Orientation	Introduction and brief tour (* to be offered for participants who will arrive by Friday of the week before opening.)	GMA
MiG (Days 1-2)	Metrology in General - FOUR (4) lectures dealing with the fundamentals of metrology in general	Dr. Jongseon PARK (jspark@kriss.re.kr)
RI	Metrology in Ionizing Radiation - THREE (3) intensive laboratory sessions with technical lectures and exercises combined	Dr. Jung Ho Kim (jungho@kriss.re.kr)
RI-01 (Day 3-4)	Ionizing Radiation Dosimetry	Dr. Chul-Young YI (cyyi@kriss.re.kr)
PLR (Day 5)	Presentation of Lab Reports	Participants, GMA
RI-02 (Day 8-9)	Radioactivity Standards and Calibration	Dr. K. B. Lee (lee@kriss.re.kr)
RI-03 (Day 10)	Neutron Measurement and Calibration	Dr. Jung Ho Kim, KRISs (jungho@kriss.re.kr)
RI (Days 11)	Performance test, Individual lab visits, Wrap-up & Closing	Center for Ionizing Radiation (GMA)

Official language of the course: English
(interpretation service is not available.)

**Knowledge
and skills to
be obtained**

At the end of the workshop, participants will become familiar with fundamental knowledge and skills on the key subjects of measurement standards, traceability, calibration and uncertainty in the fields of metrology in ionizing radiation along with the key measuring instruments. Intensive laboratory sessions (ILS) are effectively combined with lectures and hands-on exercises in ways that allow participants to obtain basic skills required for offering quality services for customers. A two-day session of metrology in general (MiG) will offer participants broad perspectives that will help them grow up to take the leading role in advancing the nation-wide measurement system up to the international level.

**Who should
attend!**

Metrologists who are working on R&D and measurement services in the fields of metrology in ionizing radiation.

Applications

Applications to be accepted: by March 20, 2019

Contact Point: Application and Inquiry

For applications and further information about participation in the course, please c
Sangwook SEO, Senior Coordinator, Global Metrology Academy (GMA), KRISs
swseo@kriss.re.kr



Workshop Program Overview: Modules, Lectures, Hands-on Exercises * subject to modifications

June 07 (Fri)	Arrival at Daejeon, check-in at the Hotel Graytone in Daejeon	recommended date of arrival at Daejeon, Korea
June 08 (Sat)	Orientation Session	10:00-12:00 (provisional)
June 09 (Sun)	Free	
MI-G	Metrology in General: fundamentals of metrology and quality	June 10 (Mon) - 11 (Tue)
	Three (3) lectures and exercises (uncertainty evaluation)	Lecturers
DAY 1 (Mon) June 10	MiG-01 KC-CMC-Traceability in Measurement	Dr. Chu-Shik KANG, KRISs
	MiG-02 Revised SI with Fundamental Constants	Dr. Ho Seong LEE, KRISs
DAY 2 (Tue) June 11	MiG-03 QMS Talk	Dr. Jonseon PARK, KRISs
	MiG-04 Uncertainty in Measurement (including exercises)	Dr. Chu-Shik KANG, KRISs
RI	Metrology in Ionizing Radiation	June 12(Wed) - 13(Thu), June 17(Mon) - 19(Wed)
	Intensive Laboratory Session (ILS) with lectures and exercises	(L) Lecture, (H) Hands-on exercises
RI-01	Ionizing Radiation Dosimetry	June 12 (Wed)
DAY 3 (Wed) June 12	(RI-01-L-1) Dosimetry Standards and Traceability	Dr. Chul-Young Yi, KRISs
	(RI-01-L-2) Ionizing Current Measurement Techniques	Dr. Yun Ho Kim, KRISs
	(RI-01-L-3) Primary Standards of Medium- and Low-Energy X-ray Air Kerma	Dr. Chul-Young Yi, KRISs
	(RI-01-L-4) Primary Standards of Gamm-ray Air Kerma and Beta-ray Absorbed Dose to ICRU Tissue	Dr. Joong Hyun Kim, KRISs
	(RI-01-L-5) Primary Standard of LINAC High Energy X-ray Absorbed Dose	Dr. Byoung Chul Kim, KRISs
RI-01	Ionizing Radiation Dosimetry	June 13 (Thu)
DAY 4 (Thu) June 13	[RI-01-H-1] Hands-on Exercises Group 1 : X-ray and gamma-ray measurements Group 2 : LINAC high energy X-ray measurements	Dr. Chul-Young Yi & Dr. Yun Ho Kim (in two groups)
	[RI-01-H-2] Hands-on Exercises Group 1 : LINAC high energy X-ray measurements Group 2 : X-ray and gamma-ray measurements	Dr. Chul-Young Yi & Dr. Yun Ho Kim (in two groups)
DAY 5 (Fri) June 14	Presentation of Lab Reports	June 14 (Fri)
DAY 6-7 (Sat-Sun) June 15-16	Free	
RI-02	Radioactivity Standards and Calibration	June 17 (Mon)
DAY 8 (Mon) June 17	(RI-02-L-1) Radioactivity Standards, Uncertainty and Traceability	Dr. Kyoung Beom Lee, KRISs
	(RI-02-L-2) Gamma-ray Spectrometry in General	Dr. Jong Man Lee, KRISs
	(RI-02-L-3) Gas-filled Detectors	Dr. Sang Hoon Hwang, KRISs
	(RI-02-L-4) Liquid Scintillation Counting System	Dr. Jung Suk Oh, KRISs
	(RI-02-L-5) Gamma-ray Ionization Chamber	Dr. Jong Man Lee, KRISs
	(RI-02-L-6) Alpha Spectrometry	Dr. Sang Han Lee, KRISs
RI-02	Radioactivity Standards and Calibration	June 18 (Tue)
DAY 9 (Tue) June 18	[RI-02-H-1] Hands-on Exercises Group 1 : Calibration and Measurements in Gamma-ray Spectrometry Group 2 : Source Preparations in Radiochemistry	Dr. Jong Man Lee & Dr. Sang Han Lee (in two groups)
	[RI-02-H-2] Hands-on Exercises Group I : Calibration and Measurements Using Gas-filled Detectors Group II : Activity Measurements using Alpha Spectrometry in Radiochemistry	Dr. Sang Hoon Hwang & Dr. Sang Han Lee (in two groups)
RI-03	Neutron Measurement and Calibration	June 19 (Wed)
DAY 10 (Wed) June 19	(RI-03-L-1) Neutron Standards and Traceability	Dr. Hyeon Seo Park, KRISs
	(RI-03-L-2) Radiation Protection for Neutron	Dr. Jung Ho Kim, KRISs
	(RI-03-L-3) Calibration for Neutron Dose-Equivalent Meters	Dr. Jung Ho Kim, KRISs
	[RI-03-H-1] Hands-on Exercises Group 1 : Neutron spectroscopy Group 2 : Calibration for neutron dose-equivalent meters	Dr. Hyeon Seo Park & Dr. Jung Ho Kim (in two groups)
RI	Performance Evaluation Test, Individual Lab Visits, Closing	June 20 (Thu)
DAY 11 (Thu) June 20	[Performance Evaluation Test]	GMA
	[Individual Visits to Laboratories]	Cener for Ionizing Radiation
	[Development/Presntation of Action Plans]	Participants, GMA
	Closing Session (Evaluation of the workshop, Certificate awarding)	UST
June 20-21 (Thu-Fri)	Departure: June 20(Thu) - 21 (Fri)	* Depending on the flight itinerary

Daily Program (Provisional)

Language of the course: English

June 07 (Fri)	Arrival at Daejeon, check-in at the Hotel Graytone	
June 08 (Sat)	Orientation Session	10:00-12:00
June 09 (Sun)	Free	
June 10 (Mon)	Opening & Metrology in General (MiG)	Tech. Service Bldg (Seminar RM #1, 1st floor)
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:00-09:45	Greetings and Introduction to KRIS and the GMA Course	
10:00-10:30	Opening session	
10:30-12:30	MiG-01 KC-CMC-Traceability in Measurement	Dr. Chu-Shik KANG, KRIS
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-16:00	MiG-02 Revised SI with Fundamental Constants	Dr. Ho Seong LEE, KRIS
16:00-16:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
June 11 (Tue)	Metrology in General (MiG)	Tech. Service Bldg (Seminar RM #1, 1st floor)
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	MiG-03: QMS Talk	Dr. Jongseon PARK, KRIS
11:00-12:30	MiG-04: Uncertainty in Measurement	Dr. Chu-Shik KANG, KRIS
12:30-14:00	Lunch	KRIS cafeteria (floor 2)
14:00-16:30	MiG-04: Uncertainty in Measurement (including exercises)	Dr. Chu-Shik KANG, KRIS
16:30-17:00	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
RI-01	Ionizing Radiation Dosimetry	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 12 (Wed)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[RI-01-L-1] Dosimetry Standards and Traceability	Dr. Chul-Young Yi, KRIS
10:30-11:30	[RI-01-L-2] Ionizing Current Measurement Techniques	Dr. Yun Ho Kim, KRIS
11:30-12:30	[RI-01-L-3] Primary Standards of Medium- and Low-energy x-ray Air Kerma	Dr. Chul-Young Yi, KRIS
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-15:30	[RI-01-L-4] Primary Standards of Gamm-ray Air Kerma and Beta-ray Absorbed Dose to ICRU Tissue	Dr. Joong Hyun Kim, KRIS
15:30-17:00	[RI-01-L-5] Primary Standard of LINAC High Energy x-ray Absorbed Dose	Dr. Byoung Chul Kim, KRIS
17:00-17:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
RI-01	Ionizing Radiation Dosimetry	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 13 (Thu)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-12:30	[RI-01-H-1] Hands-on Exercises Group 1 : X-ray and gamma-ray measurements Group 2 : LINAC high energy X-ray measurements	Dr. Chul-Young Yi & Dr. Yun Ho Kim (in two groups)
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-17:00	[RI-01-H-2] Hands-on Exercises Group 1 : LINAC high energy X-ray measurements Group 2 : X-ray and gamma-ray measurements	Dr. Chul-Young Yi & Dr. Yun Ho Kim (in two groups)
17:00-17:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
June 14 (Fri)	Presentation of Lab Reports	GMA
09:00-09:30	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
10:00-12:00	Presentation(1): six(6) participants of Lab Reports (* 20 minutes each, including Q&A)	
12:00-13:30	Lunch	KRIS cafeteria (2nd floor)
13:30-14:30	Presentation(2): three (3) participants of Lab Reports (* 20 minutes each, including Q&A)	
14:30-15:00	Tea break	
15:00-15:30	Presentation of UST (* to be confirmed)	
15:30-16:00	From KRIS to Hotel (* ride offered by the Hotel Graytone)	Participants
June 15 (Sat) - 16 (Sun)	FREE	

RI-02	Radioactivity Standards and Calibration	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 17 (Mon)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[RI-02-L-1] Radioactivity Standards, Uncertainty and Traceability	Dr. Kyoung Beom Lee, KRIS
10:30-11:30	[RI-02-L-2] Gamma-ray Spectrometry in General	Dr. Jong Man Lee, KRIS
11:30-12:30	[RI-02-L-3] Gas-filled Detectors	Dr. Sang Hoon Hwang, KRIS
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-15:00	[RI-02-L-4] Liquid Scintillation Counting	Dr. Jung Suk Oh, KRIS
15:00-16:00	[RI-02-L-5] Gamma-ray Ionization Chamber	Dr. Jong Man Lee, KRIS
16:00-17:00	[RI-02-L-6] Alpha Spectrometry	Dr. Sang Han Lee, KRIS
17:00-17:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
RI-02	Radioactivity Standards and Calibration	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 18 (Tue)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-12:30	[RI-02-H-1] Hands-on Exercises Group 1 : Calibration and Measurement in Gamma-ray Spectrometry Group 2 : Source Preparations in Radiochemistry	Dr. Jong Man Lee & Dr. Sang Han Lee (in two groups)
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-17:00	[RI-02-H-2] Hands-on Exercises Group I : Calibration and Measurements Using Gas-filled Detectors Group II : Activity Measurements using Alpha Spectrometry in Radiochemistry	Dr. Sang Hoon Hwang & Dr. Sang Han Lee (in two groups)
17:00-17:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
RI-03	Neutron Measurement and Calibration	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 19 (Wed)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-10:30	[RI-03-L-1] Neutron Standards and Traceability	Dr. Hyeon Seo Park, KRIS
10:30-11:30	[RI-03-L-2] Radiation Protection for Neutron	Dr. Jung Ho Kim, KRIS
11:30-12:30	[RI-03-L-3] Calibration for Neutron Dose-Equivalent Meters	Dr. Jung Ho Kim, KRIS
12:30-14:00	Lunch	KRIS cafeteria (2nd floor)
14:00-17:00	[RI-03-H-1] Hands-on Exercises Group 1 : Neutron spectroscopy Group 2 : Calibration for neutron dose-equivalent meters	Dr. Hyeon Seo Park & Dr. Jung Ho Kim (in two groups)
17:00-17:30	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
RI	Performance Evaluation Test, Individual Lab Visits, Closing	Tech. Service Bldg (Seminar RM #1, 1st floor)
June 20 (Thu)	Lectures (L), Hands-on Exercises (H)	Hands-on session: Laboratories in charge
08:30-09:00	From Hotel to KRIS (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
09:30-11:00	[Performance Evaluation Test]	
11:00-12:30	[Individual Visits to Laboratories of further interest] - Q&A on matters of further interest to participants, including their Action Plans	participants will be divided into different groups by the subject of individual interest.
12:30-13:30	Lunch	KRIS cafeteria (2nd floor)
13:30-15:00	Elaboration/Presentations of Action plans	Participants, GMA
15:00-16:00	Evaluation of the course (written & oral)	
16:00-16:30	Closing session (certificate awarding)	
16:30-17:00	From KRIS to Hotel (* ride offered by the Hotel Graytone)	GMA (Sangwook Seo)
June 20-21 (Thu - Fri)	Departure (June 20-21)	* depending the flight itinerary of participants
* Participants are supposed to take the airport limousine bus bound for Incheon airport. * Ride to the bus stop near the Hotel Graytone will be provided by the Hotel Graytone in cooperation with GMA, KRIS.		
※ Dress code: Smart casual		

☐ Qualification

1. The applicant should be duly nominated by the employer, whose official seal and signature should be put on the application/nomination form.
2. The applicant should be an employee of the national metrology institute (NMI) or measurement service laboratory at the time of application.
3. The applicant should be engaged in R&D and services in the subjects of workshop;
4. The applicant should be a university/college graduate or have equivalent professional career and knowledge on themes of the workshop.
5. For the sake of effectiveness, the applicant is required to have a good command of **English**.
6. The applicant should be healthy both physically and mentally enough to go through the whole programs of the workshop.

☐ Requirements: applications are accepted by March 20, 2019, along with the following requirements.

1. **An official nomination** by the employer with the official seal and the signature of the top management of the employer;
2. A copy of the **curriculum vitae** of the applicant, describing the academic background and professional experience in detail;
3. A copy of **passport** as valid for more than six (6) months as of the expected date of arrival at Korea;
4. **Laboratory report and Action Plan:** Participants are supposed to submit their laboratory reports and draft action plans according to the template to be provided later on; and
5. Plan of sharing the results of his/her study in the GMA workshop for their institution and the nation.

☐ Number of participants: each GMA workshop will be operated with around 10 participants.

Financial Arrangements

- Participants and their employers are responsible for paying all expenses of the tuition fees, airline tickets, accommodations and meals, etc. required for the participants' travel to and stay in Korea.
- Lunches for nine (9) working days are offered free to ALL participants.
- Subject to the availability of fund, additional financial assistance might be discussed for a limited number of people from developing countries.

1. Tuition fees	① Amount: US\$750/US\$1,500 per person ☞ Two different categories of the tuition fees are applicable according to the economic performance of the applicant's country. ☞ Please contact the coordinator, BEFORE making applications, to get confirmed of the tuition fee category applicable for you.
2. Banking information	② Applicants are supposed to remit the tuition fees by bank transfer to the official bank account of KRISs. ☞ Payment should be made by April 30, 2019 which will make the application complete. ☞ Please make sure that all the handling and banking charges raised both to the remitter and beneficiary should be paid by the remitter, so that the net amount of tuition fees (US\$750 or US\$1,500) could be received by KRISs .
	③ Official bank account of KRISs - Bank name: Kook-Min Bank (Branch: Yuseong Branch) - Swift code: CZNBKRSE - Account number: 461-01-0184-494 - Account holder's name: Korea Research Institute of Standards and Science (KRISs) - Bank address: 1F, #468-3, Bongmyeong-dong, Yuseong-gu, Daejeon, Republic of Korea ☞ invoices will not be issued separately if otherwise requested. (* Receipts might be issued upon the participant's arrival at KRISs.) ☞ The statement of bank transfer should be sent to KRISs either by Email (swseo@kriss.re.kr) or FAX (+82-42-868-5565) with attention to the GMA course coordinator.
2. Living expenses	④ Participants are responsible for paying living expenses in Korea including accommodations and meals.
	⑤ For selected participants from the developing world, KRISs might provide free accommodations, subject to its financial availability. ☞ Lunch for nine (9) working days will be offered free to ALL participants.
	⑥ Please note that expenses for all other meals shall be paid by the participants. ☞ Participants are advised to bring some pocket money of their own for incidental expenses.
	⑦ It is likely that participants will stay at the Hotel Graytone, Dunsan in Daejeon. (http://www.graytone.co.kr/) ☞ The room rate (around US\$55 per night per room) includes breakfast, tax, and service charge.
3. Airline tickets	⑧ Participants and their employers are responsible for purchasing the airline tickets for the participants.
4. Local Transportation	⑨ The KRISs travel agent will pick up the participants upon their arrival at the Incheon (ICN) international airport of Seoul. ☞ Participants are requested to advise the workshop coordinator of their flight itinerary to and from Korea AS SOON AS Possible .
	⑩ The KRISs travel agent will help the participants to take the airport limousine bus bound for Daejeon. ☞ The bus tickets (around US\$23 one way) are to be bought by the participants. ☞ Upon your arrival at the bus stop in Daejeon ("Government Complex-Daejeon"), the staff of the Hotel Graytone will be meeting you to take you to the hotel.

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2. Participants shall attend, to the best of their abilities, all sessions of the GMA group and/or individual courses they are participating in;
3. Participants shall refrain from engaging in political activity or any form of employment for profit or gain;
4. Participants shall return to their home country upon completion of the subject course of GMA and resume work in their country;
5. Participants shall not extend the length of stay in Korea for personal convenience;
6. Participants whose flights are supported by GMA and other donor organizations are not permitted to change their flights for their personal convenience;
7. Participants shall not be accompanied by any member of their family;
8. Participants shall assume responsibility for any personal expenses incurred regardless of implementation of the course; and
9. Participants are required to strictly observe the course schedule and abide by the **rules and regulations stipulated by the KRISs and their sponsors, and by the laws of the Republic of Korea.**
10. Any form of harassment or insult, including but not limited to misconduct arising out of racial/ethnic, gender or class discrimination, whether it be physical or verbal, will not be tolerated and will be dealt with in accordance with the laws of the Republic of Korea and the rules and regulations of KRISs.
11. Especially, **sexual harassment**, defined as a form of behavior characterized by sexually connotative words, acts or gestures that could undermine individual dignity and by which the victim takes offense, is regarded as a serious misconduct and will be dealt with accordingly.
12. Offenders who fail to comply with the above **Rules and Regulations** laws shall be subject to punishment in accordance with the laws of the Republic of Korea and the regulations of KRISs, **which include sending an official letter of complaint to the offender's employer and government and instant deportation with ban of the offender's participation in the future GMA programs.**



Applications and Inquiry!

For any further information about participation in the subject course and GMA programs, please contact:

Sangwook SEO Senior Coordinator, Global Metrology Academy (GMA), KRISs	swseo@kriss.re.kr TEL + 82-42-868-5440 Fax + 82-42-868-5565
Mr. Yun Suk HAN Coordinator, Global Metrology Academy (GMA), KRISs	han@kriss.re.kr TEL + 82-42-868-5531 Fax + 82-42-868-5565

