

**General Information on APT Training Course**  
**(Funded by Extra Budgetary Contribution of Japan)**

1. **Title of Training Course:** Actions for Next and New Generation Mobile Communication Systems
2. **Organization (hosted by):** Yokosuka Research Park (YRP)  
(YRP R&D Promotion Committee/Yokosuka Telecom Research Park Inc.)  
Ministry of Internal Affairs and Communications (MIC)  
Association of Radio Industries and Businesses (ARIB)
3. **Duration:** 20 Jan.– 27 Jan. 2016 (excluding arrival and departure dates)
4. **Place:** Tokyo and Yokosuka City, Kanagawa, Japan

5. **Abstract and Objectives**

In Japan, the 2nd generation mobile communications service ended in July 2012, and all mobile subscribers of more than 150 million are using the 3rd generation mobile service including LTE. Future introduction of the 4th generation mobile communications systems, LTE-Advanced, is under the discussion, and to respond to the start of related discussions on the 5th generation mobile communications systems (5G) to be implemented in 2020 and beyond, studies are under way in collaboration with other countries. Furthermore, Japan regards ITS (Intelligent Transport System) as an important system that contributes to solve the social issues by reducing the environmental burden and realizing safe traffic. Japan has been promoting research and development on ITS which can support safe driving.

This training course aims to contribute to the dissemination and advancement of mobile telecommunication technology in Asia-Pacific countries and to the early realization of the next generation mobile telecommunication systems such as LTE-Advanced, ITS radio system, and 5G. To achieve this aim and to nurture the human network of the people concerned, the course will consist of lectures given by researchers and specialists from the governmental standardization body, research organizations, telecom operators, venders and academia with a focus on ICT policy, standardization activities, and R&D trends. Technical visits to major R&D facilities will also be included.

## 6. Schedule:

Date	Time	Plan	Name of lecturer or organizer	Venue
Jan. 19 (Tue)	<b>Arrival</b>			
		Arrival in Japan (Narita or Haneda Airport)	Airport Meet Service	
Jan. 20 (Wed)	<b>Day 1</b>			
	AM	<b>Orientation 1</b>	Yokosuka Telecom Research Park Inc.	MIC (Tokyo)
		<b>Courtesy Visit to MIC Opening Ceremony</b>	MIC, YRP	
		<b>Lecture 1</b> Mobile Communications in Japan	MIC	
	PM	<b>Lecture 2</b> NTT DOCOMO R&D and standardization for LTE/LTE-A	NTT DOCOMO, INC.	ARIB (Tokyo)
		<b>Lecture 3</b> To realize the next generation of mobile telecommunication system	KDDI CORPORATION	
		<b>Lecture 4</b> LTE-Advanced TDD Trial status	Softbank Mobile Corporation	
		<b>Lecture 5</b> International standardization on ITS and relevant activities in Japan	NEC Corporation	
		<b>Lecture 6</b> R&D on Nonlinear Multi-user MIMO	Advanced Telecommunications Research Institute International	
		<b>Lecture 7</b> ARIB and the standardization process	Association of Radio Industries and Businesses (ARIB)	
<b>Lecture 8</b> Recent activities of ARIB in Telecommunication field				

Jan. 21 (Thu)	Day 2			
	AM	<b>Study Visit 1</b> DEURAS Radio Monitoring System	MIC	MIC (Tokyo)
	PM	<b>Country Report Presentation</b>	ARIB	ARIB (Tokyo)
Jan. 22 (Fri)	AM	<b>Study Visit 2</b> Mechanism of road traffic information transmission by VICS system	Vehicle Information and communication system Center	VICS Center (Tokyo)
	13:00 – 14:30	Transfer from Tokyo to Musashi-Koganei	*Public Transportation	
	14:30 – 16:30	<b>Lecture 9</b> Mobile Communication Data Transmission System including video Transmission	YRP or ARIB Member Company A	Koganei, Tokyo
	16:30 – 18:00	Transfer from Musashi-Koganei to Shimbashi	*Public Transportation	
Jan. 23 (Sat)	Day 4			
		Day off		-
Jan. 24 (Sun)	Day 5			
		Day off		-
Date	Time	Plan	Name of lecturer or organizer	Venue
Jan. 25 (Mon)	Day 6			
	AM	<b>Lecture 10</b> Toward Wireless Broadband	YRP or ARIB Member Company B	Shinagawa, Tokyo
	12:30 - 14:00	Transfer to Ofuna	*Hired Bus	
	14:00 – 16:00	<b>Lecture 11</b> 1) Approach of Narrowband for Land Mobile Radio Systems 2) Trends for Wireless Broadband in Public Safety Communications	YRP or ARIB Member Company C	Ofuna, Kanagawa
	16:00 – 17:00	Transfer to YRP	*Hired Bus	

	17:15 – 17:45	<b>Orientation 2</b> Introduction of facilities in YRP	Yokosuka Telecom Research Park Inc.	
Jan. 26 (Tue)	<b>Day 7</b>			
	AM	<b>Lecture 12</b> Activities of Wireless Smart Utility Network Promotion Committee	YRP R&D Promotion Committee	YRP
		<b>Lecture 13</b> History of Wireless Communication –from Marconi to 5G-	Yokosuka Telecom Research Park Inc.	
	PM	<b>Lecture 14</b> Automotive evolution driven by wireless communication technology	DENSO Corporation	
		<b>Lecture 15</b> Overview of NICT Wireless Network Research Institute	National Institute of Information and Communications Technology	
		<b>Lecture 16</b> DOCOMO's future technology and the current R&D status	NTT DOCOMO, INC.	
Jan. 27 (Wed)	<b>Day 8</b>			
	AM	<b>Courtesy Visit to Yokosuka City Office</b>	Yokosuka City Office	Yokosuka Chuo
	PM	<b>Lecture 17</b> Introduction of the Backbone Network to Support Mobile Communications Services	NTT	YRP
		<b>On-line Evaluation Session</b>	Yokosuka Telecom Research Park Inc.	
		<b>Opinion Exchange / Discussion with MIC Officials</b>	MIC	
		(Break)		
<b>Closing Ceremony</b> (Giving the certification)		MIC, YRP		

		<b>Evaluation Meeting</b>		
	19:00	Transfer from YRP to Hotel nearby Narita Airport (via Hotel nearby Haneda Airport)	*Hired Bus	
Jan. 28 (Thu.)	<b>Depart</b>			
		Departure from Japan		

△ Note: This tentative schedule can be adjusted to accommodate the APT's needs.

## 7. Venue:

Organization: Yokosuka Research Park (YRP)  
Address: YRP Center No. 1 Bldg, 3-4 Hikarinooka, Yokosuka, Kanagawa 239-0847, Japan  
Tel: +81 4 6847 5017

Organization: Ministry of Internal Affairs and Communications  
Address: 1-2Kasumigaseki, 2-chome, Chiyoda-ku. Tokyo 100-8926, Japan  
Tel: +81 3 5253 5896

Organization: Association of Radio Industries and Businesses (ARIB)  
Address: Nittochi Bldg. 11F, 1-4-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-0013, Japan  
Tel: +81 3 5510 8590

## 8. Reception at the Airport:

YRP prepare supports for the participants to get domestic transportations from Narita International Airport to the hotel. Trainees will take direct airport limousine buses from Narita Airport to Tokyo Dome Hotel.

## 9. Hotel accommodation:

<Jan. 19 – Jan. 24> - 6 nights

### Tokyo Dome Hotel

Add: 1-3-61 Koraku, Bunkyo-ku, Tokyo 112-8562

Tel. +81 3 5805-2111 Fax. +81 3 5805-2200

Web: <http://www.tokyodome-hotels.co.jp/e/>

<Jan. 25 – Jan. 26> - 2 nights

### Hotel Maholova Minds Miura

Add: 3231 Kami-miyata, Minamishitaura Town, Miura City, Kanagawa, 238-0101

Tel. +81 46 889 8900 Fax. +81 46 889 8925

Web: <http://www.maholova-minds.com/english/>

<Jan. 27> - 1 night

### Narita Airport Rest House

Add: Narita Airport, Narita, Chiba

Tel. +81 4 7632 1212 Fax. +81 4 7632 1209

Web: <http://www.apo-resthouse.com/english/index.html>

**10. Immigration Requirements:**

All foreign visitors entering into Japan must have a valid passport.

- Participants requiring visa should apply to Japanese diplomatic mission (embassies and consulates etc.) in their own countries (or to Japanese diplomatic mission directly in charge of the participant's country) as soon as possible.
- Kindly check current visa requirement with The Embassy of Japan or Travel Agent before traveling, or visit the website of the Ministry of Foreign Affairs of Japan at URL: [http://www.mofa.go.jp/j\\_info/visit/visa/index.html](http://www.mofa.go.jp/j_info/visit/visa/index.html)
- For your smooth visa application, visa supporting letters written in Japanese will be provided by YRP and will be sent directly to the participants.

**11. Photograph:**

The participants are requested to send an electronic **copy of a recent photograph** of their faces (within 6 months) for a participant list.

**12. Country Report:**

Participants are requested to prepare a Country Report based on a questionnaire to be forwarded to the selected trainees.

- The report should be made using Microsoft Power Point, Microsoft Word, and/or Microsoft Excel on A4 paper.
- The electronic file of the report should be submitted to the Local Secretariat (YRP) as mentioned in the section 16 and copied to the APT Secretariat **no later than 8 January 2016**.
- Each trainee is requested to make an **8-minute presentation** followed by Q&A.

**13. At Japanese Custom Office:**

- Japanese customs is fairly lenient and allows bringing in items necessary for personal use, however, strictly prohibited are firearms and other types of weapons and narcotics.
- For details please refer to the following website of Japanese Customs: <http://www.customs.go.jp/english/summary/passenger.htm>

**14. Weather:**

- The latest weather information will be obtained at <http://www.jma.go.jp/en/yoho/index.html> (See weekly forecast to obtain highest and lowest temperature expected of each day of the corresponding week. – “Get more information on this area” -> pull down menu -> select “One-week forecasts”).
- Please also refer to the following Additional Advices.

**15. Electric Current:**

Please note that commercial electricity in Tokyo is at **AC 100V 50Hz** with American type outlet plug (**Type A Class II**). It is asked that participant **bring transformer and plug adapter (American type outlet plug)** if he/she wishes to use his/her own PC in Japan.

**16. Contact Person:**

1. Name: **MORISHITA Hiroyuki (Mr.)**

Title: Managing Director, Yokosuka Telecom Research Park, Inc.

2. Name: **KAMIMURA Miho (Ms.)**

Title: Assistant Manager, Planning Department, Yokosuka Telecom Research Park, Inc.

Tel: +81 4 6847 5017

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E-mail: [yrp-i@yrp.co.jp](mailto:yrp-i@yrp.co.jp)

**17. Additional Advices:**

It is advised that participants bring shoes suitable and comfortable for walking, as in principle, public transportation system (Metro, Trains and Buses) will be used during the training and it sometimes requires certain distance of walking to and from and between training venues.

Rain gears such as umbrellas are also essential. In Japan, it can rain, sometimes all through the day, in any season of the year.

Please be well reminded that January is mid-winter in Japan.

Although winter in Tokyo is relatively mild compared to other parts of Japan, dry with little chances of rain or snow, in some cases temperature may drop as low as single digit number in Celsius degrees (1 degree to 9 degrees Celsius) especially in the early mornings and chances of snow fall or cold rain cannot be totally denied.

Strong northerly wind may blow during this season and the wind chill effect makes one feel colder than the actual air temperature.

The participants are strongly advised to bring warm clothes.

**18. Notes:**

The host organization's business day is from Monday to Friday. They do not work on Saturdays and Sundays. Message sent to them will be received only during working hours of weekdays.

Also beware of the time difference, Japan is ahead of most of the countries. (Japan Standard Time is UTC +9 hours. Japan does not observe daylight saving time.) That

means their office will be closed earlier than in the cases of most of the participants' countries.

**19. Regulation:**

- not to bring any member of his/her family;
- not to change accommodation during training period;
- to participate in the course from the beginning to the end; and
- to return his/her home country at the end of their training course according to the international travel schedule designated by APT.

Participants are required to comply with instructions given by APT and the local host. (Further information on the requirement is found in the “Guidelines for APT fellowships under HRD Programme (2015)” and other related document)