

## IEEE Technical Tour of Japan

20 May to 28 May 2012

The IEEE History Center's Milestones celebrate technological breakthroughs or turning points, around a number of which the IEEE Life Members Committee (LMC) is organizing technology themed tours. The IEEE Technical Tour of Japan is planned by the IEEE Japan Council History Committee (JCHC) and the IEEE Tokyo Section Life Members Affinity Group, with the cooperation of three IEEE Sections in Japan – the Kansai, Nagoya, and Tokyo Sections – as the third IEEE Technical Tour.

The tour includes visits to the awarded IEEE Milestones in Japan as well as the related museums and cultural heritages in the districts of Nara, Kyoto, Nagoya, Tokyo, and Yokohama, as shown in the itinerary below. Tour is planned with Life Members and their spouses in mind; all of you are welcome to join the tour as it is a great opportunity to get acquainted with the history of technology and the culture in Japan.

SPACE IS LIMITED! Reserve your place as soon as possible. Registration opens 1 January 2012.

The registration link and the information are available online in the website of [IEEE Technical Tour of Japan](http://www.ieee.org/Tech-Tour/Japan) (<http://www.ieee.org/Tech-Tour/Japan>).

Questions concerning the tour should be sent to JCHC Chair Eiichi Ohno ([e.ohno@ieee.org](mailto:e.ohno@ieee.org)) or JCHC Secretary Eiju Matsumoto ([e.matsumoto@ieee.org](mailto:e.matsumoto@ieee.org)).

### **Brief Itinerary**

#### **Day 1: [Arrival Day]: Sunday, 20 May – Welcome to Kyoto**

Arrange your own air transportation to Japan; the Kansai International Airport located south of Osaka, the nearest international airport to Kyoto, and your own transfer via a limousine bus or an express train to Kyoto station, then a taxi or hotel shuttle bus to the [Westin Miyako, Kyoto](#).

After checking in the hotel, you are requested to drop at the IEEE Japan tour desk to get the tour information and the up-to-date schedule. No events are scheduled, meals on your own – time to get acquainted with the hotel and the surrounding area.

#### **Day 2: Monday, 21 May – Sharp Museum and Temples in Nara**

Group breakfast and official welcome, introductions, and view of the complete tour schedule will start at 7:30 a.m.. At 9:00 a.m., the private bus starts for Nara, about one hour drive to the Sharp, Tenri..

**Sharp Memorial & Technology Hall** (IEEE Milestones): Electronic Calculators and Photovoltaic Cells are two significant Sharp Corporation's achievements honored as IEEE Milestones. This hall, in Sharp's Tenri City Corporate R&D Center, traces historical highlights and features the latest technology. Instead of spending money on a pavilion at Expo'70 in SENRI, Osaka, Sharp decided to invest to a new R&D Center in TENRI, Nara. This strategy "not to Senri but to Tenri" established the foundation for the cutting-edge LSI and LCD technology that has made Sharp what it is today.

**Cultural Heritages in Nara:** Nara, the ancient capital of Japan in the 8<sup>th</sup> century, was awarded as the cultural world heritage, with a plenty of famous old temples and shrines.

Visit to [Todai-ji](#), known for its "Daibutsu" or Great Buddha, which is the largest wooden structure in the world, and [Kofuku-ji](#), [Kasuga-taisya](#), and [Toshodaiji-temple](#), almost all of them were constructed about 1,300 years ago. You can get Nara through following website: <http://narashikanko.jp/en/index.html>

**Welcome dinner at Japanese restaurant in Kyoto:** You can enjoy Maiko dance show. The IEEE Kansai Section and the Japan Council host the welcome dinner.

### Day 3: Tuesday, 22 May –Keage Hydropower Station and Heritages in Kyoto

**Keage Power Station and Lake Biwa Canal Museum:** Keage hydroelectric power station started its operation in 1891 as the first hydroelectric power station for electric utility services in Japan utilizing water through [Lake Biwa Canal](#) which was completed the previous year. The first tramcars in Japan ran in Kyoto by electricity generated here in 1895. The classical red brick building constructed in 1912, still remains. The existing power station was constructed in 1936 and has been working until now. You can see the history of the construction of the canal and power station at the Lake Biwa Canal museum nearby.



Keage Power Station  
The 2nd phase building  
constructed in 1912

**Cultural Heritages in Kyoto:** Kyoto had been the capital of Japan for more than thousand years from 791 until 1869. City of Kyoto was awarded as the Cultural World Heritage and there are many famous temples and shrines. Among these, you will visit [Kinkaku-ji](#), [Kiyomizu-dera](#), [Sanjusangen-do](#), and [Yasaka-jinja](#). You can preview the city of Kyoto by the following website; <http://www.kyoto.travel/>

#### **Day 4: Wednesday, 23 May – Bus trip to Nagoya and Railway Park**

After breakfast, you will start a two-hour bus trip for Nagoya at 9:00 am and arrive the Railway Park before noon.

[SCMAGLEV and Railway Park of the Central Japan Railway Co.](#) (IEEE Milestone): It has opened on the 14<sup>th</sup> of March 2011 as one of the most popular railway museums in Japan. Here you can see exhibits of 39 different types of rolling stock, from steam locomotives to Shinkansen trains and the superconducting Maglev (SCMAGLEV) train now under development as the next generation. You can also visit the railway diorama, various types of simulators, and history exhibition room including the story of Shinkansen development.

**Dinner at [Tokugawaen](#) garden restaurant:** IEEE Nagoya Section will serve refined French dinner cooked of Japanese ingredients. You can enjoy the beautiful view of Tokugawaen garden. You will stay at [Nagoya Tokyu Hotel](#).

#### **Day 5: Thursday, 24 May – Yosami Museum, Toyota Museum and Shinkansen train to Tokyo**

Breakfast at the hotel, then check out; your baggage will be collected by truck to be taken directly to the hotel in Tokyo. After visiting Yosami Museum in the morning and Toyota Museum in the afternoon, you will ride on the Shinkansen train for Tokyo.

[Yosami Memorial Museum](#) (IEEE Milestone): preserves the main equipments used in the [Yosami Radio Transmitting Station](#), which established the first wireless communications between Japan and Europe in 1929. You can see the large rotating machines used to generate high power VLF (17.442 kHz) of 500 kW output and the lower portion of an antenna tower, one tenth in height of the 250m high original tower. The facilities were also used for communicating with submarines by the Imperial Japanese Navy and by the United States Navy.



Yosami Memorial Museum  
High frequency alternator  
and the base of antenna

**TOYOTA Commemorative Museum of Industry and Technology**: It is located on the site where Sakichi Toyoda, founder of the Toyota Group, established his plant for developing automatic looms in 1911. Its main exhibits consist of two pavilions: textile machinery and automobile manufacturing accommodated in the original redbrick building, one of the historical legacies of the Toyota Group. Visitors can learn the history of the Toyota Group and see the importance of “Making Things” and “The Spirit of being Studious and Creative”, through hands-on exhibits and demonstrations.

**Shinkansen to Tokyo**: You will ride on the Shinkansen from Nagoya station to Tokyo station. Please watch the automatic ticket examining system (IEEE Milestone) working. On the train, the first class seat is prepared for you. Enjoy the full view of Mt. Fuji on the way!. You will be at Tokyo station after 103 minutes ride, then to the [Prince Sakura Tower](#) where you will stay 4 nights.



Shinkansen “NOZOMI”  
approaching Tokyo station

After checking in the hotel, you are free to choice the dinner at your own.

**Day 6: Friday, 25 May – NHK Museum of Broadcasting and Seiko Institute of Horology**  
Breakfast at leisure at the hotel, then board on the bus for visiting the Tour sites.

**NHK Museum of Broadcasting** (IEEE Milestone): Established by NHK in 1956 at Atagoyama, where the first public radio broadcasting in Japan started in 1925. In the museum, you can see the exhibits of IEEE Milestones related to the broadcasting technology in Japan including Yagi-Uda antenna, Takayanagi TV, and direct satellite

broadcasting. The museum houses 20,000 items and 7,000 books related to broadcasting.

**[SEIKO Museum](#)** (IEEE Milestone): It was established in 1981, commemorating the 100<sup>th</sup> anniversary of the Japanese watch manufacturer SEIKO. It shows a comprehensive collection of epoch making SEIKO watches and clocks, including Japan's first watch and the world's first quartz wrist watch. It also offers a large spectrum of old timepieces ranging from ancient sundials, incense clocks and European tower clocks. Its Japanese *Wadokei* collection is one of the largest in the world.

**Asakusa and cruise dinner:** After enjoying a visit to [Senso-ji](#) in Asakusa where you can find souvenirs for your family and friends. Then, you will have cruise dinner on the Sumida river.

#### **Day 7: Saturday, 26 May – Toshiba Museum, TEPCO Museum and JVC VHS Hall**

**[Toshiba Science Museum](#)** (IEEE Milestone): established in 1961, in commemoration of Toshiba's 85<sup>th</sup> anniversary. The museum preserves a lot of the Japan first products such as the incandescent lamp, motors and generators, radio receives, radio tubes, and etc. as well as the world first cutting edge technologies such as helical scan video tape recorder, automatic postal mail processing equipment, and NAND flash memory. The original product of the Milestone awarded Japanese word processor also is here.

**The [Electric Power Historical Museum](#):** established by the Tokyo Electric Power Company in 2001, commemorating its 50<sup>th</sup> anniversary, the Museum has been designed to enable visitors to trace the 120-year history of the Japanese electric power industry. The Museum displays some 700 historical items that were actually put to use as electric power equipment. Many objects are made more visible by removing the cover and making cutout model. It also shows home appliances in early days including the works of Thomas Alva Edison.

**[VHS Commemorative Hall](#)** (IEEE Milestone): was established in 1997 in the site of JVC Yokosuka Plant. In this Hall, all the histories of VHS development are displayed including the early stage engineering samples. By its basic design and development afterward with adherence to interchangeability, VHS established itself as the world de-facto standard of home VTR.

**[Takayanagi Museum](#)** (IEEE Milestone): was established in 1986 also in Yokosuka Plant, and has a number of collections of Kenjiro Takayanagi, including the restorations of an early cathode ray tube television system developed at Shizuoka University before

he moved to JVC. He directed the developments of television and video tape recorder.

On the beach nearby, you can visit **the memorial statue of [Commodore Perri](#)** who landed Japan in 1853 and contributed to open Japan to the world.

Dinner at Chinese cuisine restaurant at **Yokohama Chinatown**.

#### **Day 8: Sunday, 27 May – Edo-Tokyo Museum, Akihabara and shopping in Ginza**

**[Edo Tokyo Museum](#)**: Edo is old name of Tokyo and was the capital of the Tokugawa shogunate until 1868 when the Meiji emperor moved from Kyoto and decided here the new Capital of Japan. In this museum, the history of Edo from early 17 century and the dramatic change to the modern Tokyo until now. Enjoy the transition by the realistic exhibitions.

In the afternoon, you will visit the **Akihabara electric town** and enjoy shopping in Ginza/Nihonbashi street.

**Farewell Dinner**: The IEEE Tokyo Section will serve a farewell dinner in the Italian restaurant.



Edo-Tokyo Museum



Senso-ji in Asakusa

#### **Day 9: [Departure Day]: Monday, 28 May**

##### **End of Tour after breakfast, Goodbye and Sayonara!**

Breakfast at leisure at the hotel. After breakfast, the tour is officially complete. Depart Tokyo on your own. Narita and Haneda airports are available.

Additional nights are optional. Hotel rates will be extended for those wishing to stay a few more days in Tokyo.

IEEE Technical Tour of Japan

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## Tour Costs

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The cost of the tour, exclusive of travel in and out of Kyoto and Tokyo, is as follows:

	(¥80/US\$)	(¥75/US\$)
Single Room:	(US\$4,850)	(US\$ 5,170)
¥387,800 per person		
Double Room:	(US\$3,670)	(US\$3,920)
¥293,700 per person		

To avoid the effect of the exchange rate fluctuation, the costs are determined in Japanese Yen. The corresponding dollar values are indicated just for references.

## Registration for the Technical Tour

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- Registration opens 1 January 2012.
- Registration must be completed by 15 February 2012.
- Payment must be received by 1 March 2012 in order to confirm your participation.
- The tour cost must be paid in Japanese Yen using your credit card by 1 March through the JTB's entry system [AMARYS \(https://amarys-jtb.jp/ieee/\)](https://amarys-jtb.jp/ieee/).

## Hotel Accommodations and Additional Nights

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In connection with this tour, JAPAN TRAVEL BUREAU (JTB) will provide hotel accommodation for all tour participants at the following hotels in Kyoto, Nagoya and Tokyo.

- Kyoto: Westin Miyako, Kyoto - from Sunday 20 May to Wednesday 23 May (3 nights)
- Nagoya: Nagoya Tokyu Hotel – from Wednesday 23 May to Thursday 24 May (1 night)
- Tokyo: The Prince Sakura Tower Tokyo - from Thursday 24 May to Monday 28 May (4 nights)

Accommodation shall be provided in either double or twin bedded rooms (for occupation by two guests, sharing) or in single bedded rooms (for one guest).

### Additional Stay

Should any guests wish to extend their stay for up to three additional nights (prior to 20 May in Kyoto, and/or after 28 May in Tokyo), rooms may be through the registration site and will be made available by the hotels, subject to availability.

## Travel Agency

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A tour opportunity is commissioned by the IEEE Life Member Committee in cooperation with JAPAN TRAVEL BUREAU (JTB), Tokyo.

JAPAN TRAVEL BUREAU (JTB)

Attn: Takashi Iwashita

Corporate Sales Shinbashi Branch

JTB Business World Tokyo Corp.

<http://www.jtbbwt.com/en/>

[Tech-Tour2012@jbn.jtb.jp](mailto:Tech-Tour2012@jbn.jtb.jp)

Fax: +81-3-3502-3169

## Tour Inclusions

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The price of this tour includes the following:

- 8 nights' accommodation package, including full breakfast
- Lunch every day and dinners on Day 2, 4, 6, 7 and 8
- Transportation in accordance with the itinerary from Day 2 to Day 8
- Qualified English speaking guide lecturers to accompany the group throughout all organized activities
- First class tickets for Shinkansen train journey from Nagoya to Tokyo on day 5
- Separate baggage truck to take baggage directly from Nagoya to Tokyo on day 5
- Admission fees/donations/expenses in connection with visits to places of interest, including: Todai-ji, Kohoku-ji, Kasuga-taisya, Toshodaiji temple, Kinkaku-ji, Kiyomizu-dera, Sanjusangen-do, Yasaka-jinja, Railway Park, Toyota Museum, and Edo-Tokyo Museum
- All gratuities and out-of-pocket expenses incurred by guides and drivers
- Consumption tax at 5%

## Legal and Financial Information

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This Tour has been designed to be as cost effective as possible for the travelers and is not an opportunity to raise funds for the IEEE Foundation. However, that said, it is not designed to lose money either.

Travelers must realize that there are many uncertainties in organizing functions months in advance where determining cost is very difficult, plus the exchange rate between countries' currency is subject to change depending upon economic conditions at



any given time.

Please note that travelers are responsible for ordinary incidents - trip cancellation for health reasons, weather cancellations, etc. - many of which can be covered by **travel insurance** that you can purchase separately through a travel agency, which should be seriously considered.

The price for the tour is based on a price per person, either a single (¥387,800 pp) or a double (¥293,700 pp), and includes the hotel, as well as land costs. The contracted price is based on a minimum group size of 20 paying guests. If fewer than 20 guests wish to make the tour, JTB has reserved the right to adjust the price as may be necessary.

If less than 20 have completed their full tour payments by 1 March 2012, those who have registered and paid will be contacted to explain any changes in the cost per person for the Tour. IEEE reserves the right to cancel the complete tour if insufficient individuals register for this Tour.

### **Cancellations and Attrition Penalties**

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Individuals who register for this Tour agree to the following terms concerning Cancellations.

Individuals wishing to cancel as a result of unforeseen circumstances will be subject to the following penalties upon the specific dates and amounts listed:

Before 29 February: Non-Penalty

After 1 March and before 29 April: ¥ 40,000 (Yen)

After 30 April and before 12 May: 20 %

After 13 May and before 18 May: 30 %

On 19 May: 40 %

After 20 May: 100 %

### **Hotels, Airports, and Transfers**

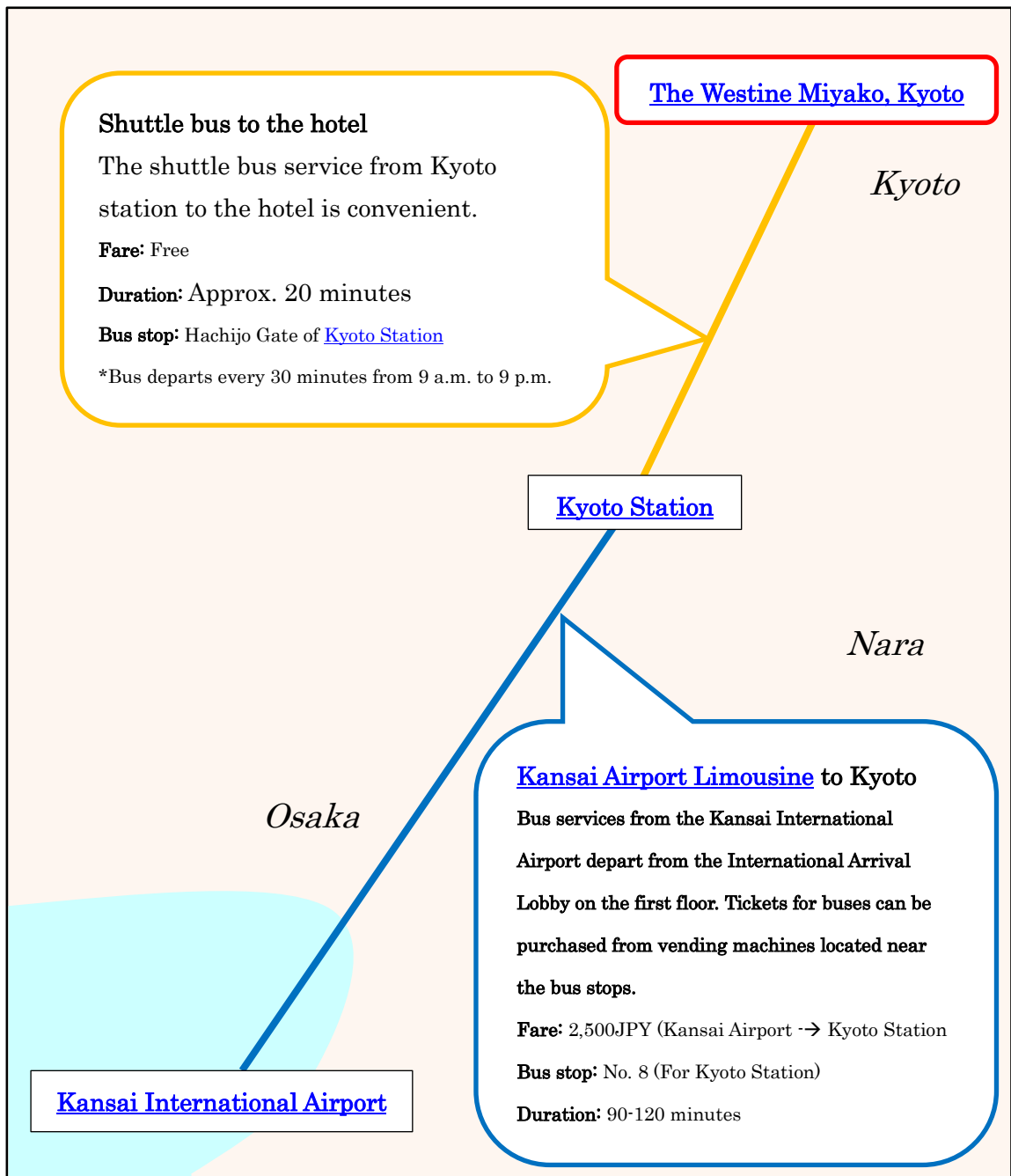
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Westin Miyako, Kyoto

[http://www.starwoodhotels.com/westin/property/overview/index.html?propertyID=1427  
&language=en\\_US](http://www.starwoodhotels.com/westin/property/overview/index.html?propertyID=1427&language=en_US)

Getting to the Hotel from the Kansai International Airport

Take the airport limousine to the JR-Kyoto Station, and then take the hotel shuttle bus to the Westine Miyako



Nagoya Tokyu Hotel

<http://www.nagoya-h.tokyuhotels.co.jp/en/index.html>

Prince Sakura Tower Tokyo

<http://www.princehotels.com/en/sakuratawer/>

Airport limousine services from the hotel are available to get to the Narita airport (takes 90 – 120 min.) and Haneda airport (60 – 85 min.)

**Optional Tours**

JAPAN TRAVEL BUREAU (JTB) will be pleased to provide pre-tour and/or post-tour plans upon the requests of participants.

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**Japan Tour Project Group**

Eiichi Ohno (Chair, Japan Council History Committee)

Eiju Matsumoto (Secretary, JCHC)

Yoshihiro Arimoto (Secretary JC)

Kohei Habara (Chair, LMAG Tokyo),

Isao Shirakawa (Kansai Section)

Masayuki Nagao (Nagoya Section)



Eiichi Ohno

Eiju Matsumoto

Yoshihiro Arimoto



Kohei Habara

Isao Shirakawa

Masayuki Nagao