

## Technology Day

Date : 9 March 2017, 13:30 - 16:00

Venue: UNU HQs Bldg. 2F, 5-53-70  
Jingumae, Shibuya-ku, Tokyo

Organized by UNIDO ITPO TOKYO

Participant companies;

-  Fumin Co., Ltd.
-  HINODE SANGYO Co., Ltd.
-  JICUW Co., Ltd.
-  Kokusaikan Corporation Japan
-  KOMAIHALTEC, Inc.
-  Kumamoto Seissha Co., Ltd.
-  Meiwa Co., Ltd.
-  NABELL CORPORATION
-  Panasonic Corporation
-  RBC Consultant, Co., Ltd.
-  Shinko Tecnos Co., Ltd.
-  **YAMAHA**  
*Revs Your Heart* Yamaha Motor Co., Ltd.



UNIDO ITPO TOKYO

# Technology Day

Meet  
innovative  
Japanese  
Environmental  
Technologies  
promoted  
by UNIDO ITPO TOKYO

**9 March 2017**  
**13:30-16:00**

Doors open 30 minutes prior

# Participant companies and technologies

## 1. FUMIN Co., Ltd.

[www.fumin.jp/index\\_en.html](http://www.fumin.jp/index_en.html)  
 Mr. Katsuo YAGISAWA  
[k-yagisawa@fumin.jp](mailto:k-yagisawa@fumin.jp)



### Coating for Ultraviolet and Infrared Ray Shielding

The ultimate solar control coating technology called FUMIN COATINGTM forms an ultra-thin transparent film of 1.5 microns thickness that shuts off about 90% of ultraviolet rays and 70% of infrared rays. It can be applied on any type of curved or bumpy surface glass and polycarbonate. Because 85% of visible light transmission is achieved, the exterior appearance and interior brightness are not affected at all.



## 2. HINODE SANGYO Co., Ltd.

[www.hinodesangyo.com/english/](http://www.hinodesangyo.com/english/)  
 Ms. Kaori FUJITA  
[k-fujita@hinodesangyo.com](mailto:k-fujita@hinodesangyo.com)



### Dispersed-Microbes Process for Wastewater Treatment

A major problem in activated sludge process is occurrence of sludge "bulking" caused by the growth of filamentous microorganisms. Hinode Sangyo's Dispersed-Microbes Process prevents sludge bulking and remarkably enhances efficiency of wastewater treatment by activating aerobic microorganisms. This system is superior to a conventional one because of its low maintenance cost, energy & space requirements and the sludge reduction.



## 3. JICUW Co., Ltd.

[www.jicuw.co.jp](http://www.jicuw.co.jp)  
 Ms. Ayako MATSUMOTO  
[info@jicuw.co.jp](mailto:info@jicuw.co.jp)



### Water Molecules Activation Technology

The product "HIET" is an equipment which irradiates high efficiency growth light rays and separates water molecules from each other with a slight vibration, thereby enhancing agricultural and livestock productivity. By simply covering a part of water pipes or hoses with HIET, it enables water molecules to be separated and generate free molecules, which help the growth of crops.



## 4. Kokusaikan Corporation Japan

Mr. Aladdin TIMUR  
[aladdintimur@yahoo.co.jp](mailto:aladdintimur@yahoo.co.jp)



### Nanotechnology & Industrial Coatings

This product will reduce excessive temperature stress for people in buildings, households, and factories and will protect crops in warehouses, goods in containers, and passengers in buses. Heat cutting paint will bring down temperatures by over 10°C on roofs and gas/oil tanks. Dust repelling function coated on painted surfaces will protect the heat cutting function from deterioration or accumulation of dust or dirt.



## 5. KOMAIHALTEC Inc.

[www.komaihaltec.co.jp/english/](http://www.komaihaltec.co.jp/english/)  
 Ms. Leiko TOYODA  
[toyoda@komaihaltec.co.jp](mailto:toyoda@komaihaltec.co.jp)



### Mid-Size Wind Turbine "KWT300" (300kW)

The KWT300 is one of the very few high-spec, mid-size wind turbines available in the world. With 6.5m/s of annual average wind speed, one unit of wind turbine generates 600MWh/year, which is equivalent to the annual electricity use of 160 households. The KWT 300 is highly adaptable to the conditions of developing countries because of its flexibility (easy transportation, construction and various applications) and safety conscious design (strong, stable, and resistant to extreme winds, lightning and earthquakes).



## 6. Kumamoto Seissha Co.,Ltd.

[www.kumasei.com/en/](http://www.kumasei.com/en/)  
 Mr. Masahiro INOUE  
[inoue@kumasei.com](mailto:inoue@kumasei.com)

### Bio Plaza: Food Waste Recycling Facility

The unique food treatment system called "Bio Plaza" consists of food waste partitioning technology, sealed biological deodorization technology and fermentation process. It does not use disposal methods such as burying or incineration. 100% organic fertilizer made at the food waste recycling facilities is used to cultivate crops, which forms a recycle loop that links consumers with producers in agricultural industry.



## 7. Meiwa Co., Ltd.

[www.meiwa-ind.co.jp/en/index.html](http://www.meiwa-ind.co.jp/en/index.html)  
 Mr. Takeo TOKUNARI  
[t-tokunari@meiwa-ind.co.jp](mailto:t-tokunari@meiwa-ind.co.jp)



### Biomass Carbonization Technology

Meiwa's biomass carbonization plant is a waste recycling plant that can convert almost anything organic into charcoal (called biochar). Processable materials include sludge, human waste, chicken manure, scrap wood, agricultural residue, food waste and water hyacinth among others. As biochar can work as a natural fertilizer, soil conditioner, fuel etc., Meiwa's biomass carbonization technology provides solutions to waste management and agriculture, environment and/or energy at the same time.



## 8. NABELL CORPORATION

[www.nabell.com](http://www.nabell.com)  
 Mr. Hiroto MIYAKE  
[nabell@bellows.co.jp](mailto:nabell@bellows.co.jp)



### Portable Solar Power Charge and Storage System

The nanoGrid is a portable solar power system that can generate and store electric power from sunlight and/or AC power supply and charge electric devices anywhere anytime. The nanoGrid can supply electric power to electric devices such as PCs, LED lights, and mobile phones not only in a non-electric power source area and under disaster conditions but also for outdoor leisure activities, as it is optimally designed for both convenience and practicality.



## 9. Panasonic Corporation

[www.panasonic.com/global/home.html](http://www.panasonic.com/global/home.html)  
 Mr. Takayuki HOTTA  
[Hotta.takayuki@jp.panasonic.com](mailto:Hotta.takayuki@jp.panasonic.com)



### Rechargeable Solar LED Lantern

This rechargeable solar LED lantern is a multifunctional portable lantern that can be used as lighting, as a battery charger and as a solar panel. It comes with a 3.5W solar photovoltaic panel, which can fully recharge the waterproof lantern in 6 hours in fine weather. The batteries can be recharged more than 1,500 times. The LED lifespan is more than 10 years.



## 10. RBC Consultant Co., Ltd.

[www.rbc-kk.co.jp/index\\_e.html](http://www.rbc-kk.co.jp/index_e.html)  
 Mr. Taro SUGIYAMA  
[infokankyo@rbc-kk.co.jp](mailto:infokankyo@rbc-kk.co.jp)



### Water Treatment with Bakture System

Water treatment with an activator called "Bakture Powder" can be utilized in multiple applications such as river purification, and wastewater treatment for food industries and commercial facilities. Bakture Powder activates existing microbes and the microscopic food chain can be revived in the water. Environmental pollutants are decomposed without any need for power.



## 11. SHINKO TECNOS Co., Ltd.

[www.shinko-mfg.co.jp](http://www.shinko-mfg.co.jp)  
 Mr. Kentaro NAGASAWA  
[info@shinko-mfg.co.jp](mailto:info@shinko-mfg.co.jp)



### Hydrothermal Treatment Technology

This technology causes hydrolytic reaction of injected material with high temperature and high pressure steam (max 230°C/ 3Mph) inside a reactor. Germ free outputs generated after 30 minutes of treatment can be used as solid fuel, solid fertilizer, and liquid fertilizer or livestock feed. Various types of unused resources (waste) can be treated with this technology in a short-time process (2.5 – 3.5 hours for one process).



## 12. Yamaha Motor Co., Ltd.

[www.global.yamaha-motor.com](http://www.global.yamaha-motor.com)  
 Mr. Ryosuke NISHIJIMA  
[nishijimar@yamaha-motor.co.jp](mailto:nishijimar@yamaha-motor.co.jp)



### Rural Electric Water Sanitary Station

The Rural Electric Water Sanitary Station consists of 1) renewable energy generator for pumping river/lake water and for charging of cellphones, 2) clean water supply system to supply clean water for local areas, 3) drip irrigation system for water saving and efficient farming, and 4) compost toilet for improving hygiene environment for people in local areas.

