

## About Kyoto

Kyoto, the ancient capital of Japan, lies in a basin surrounded by mountains on three sides. Over its 1,200-year history, Kyoto has blended diverse cultures, and is also called the spiritual home of the Japanese. In central Kyoto, the streets and alleys run east-west and north-south, forming a grid pattern. In addition to Nijo Castle and 16 other UNESCO World Heritage Sites, Kyoto is home to more than 2,000 shrines and temples. Mountains and forests account for roughly three-quarters of the municipal area that stretches longitudinally. The remaining quarter of the area comprises the urban district with the Imperial Palace at its center. Due to its basin-specific climate, Kyoto undergoes drastic temperature changes between day and night, and between the hottest and coldest periods of the year. It is renowned for the beauty and subtleties of its clearly defined seasons. Kyoto is not only a historic city that attracts domestic and international tourists, but also an academic center with several universities and junior colleges.



## Important date

March 1, 2017	Abstract submission open
May 1, 2017	Registration open
<del>June 30</del> August 25, 2017	Abstract submission deadline
August 31, 2017	Early registration deadline

## Registration information

Register on or before August 31, 2017 to get early registration rates.

	Early until 31st Aug. 2017	Regular after 1st Sep. 2017
Speaker or poster presenter	48,000 JPY	60,000 JPY
Non-presenter	57,600 JPY	72,000 JPY
Student	36,000 JPY	36,000 JPY
Student excluding conference dinner	27,600 JPY	27,600 JPY
Less developed countries (LDC)	36,000 JPY	36,000 JPY

## Organizers

Kyoto University  
National Taiwan University  
Vienna University of Technology  
International Solid Waste Association (ISWA)  
Japan Society of Material Cycles and Waste Management (JSMCWM)

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Vera Susanne Rotter (Technical University of Berlin, Germany)  
Shin-ichi Sakai (Kyoto University, Japan)

## Local organizing Committee

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Chair: Prof. Shin-ichi Sakai (Kyoto University, Japan)  
Co-chair: Prof. Hwong-Wen Ma (National Taiwan University, Taiwan)  
Co-chair: Prof. Paul H. Brunner (Vienna University of Technology, Austria)

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Hideto Yoshida (Japan Environment Safety Corporation (JESCO), Japan)

## Final Sinks 2017 Secretariat

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# 4th International Conference on Final Sinks

**-How can the need for sinks be reduced by cleaner production and waste prevention?-**

<http://icfs2017.org/>



Organized  
by



**October 24-27, 2017**  
**Kyoto, Japan**

## Welcome to 4th Final Sinks

We are pleased to announce the 4th International Conference on Final Sinks (ICFS) to be held at the Kyoto Research Park in Kyoto, Japan, from October 24-27, 2017. The conference will be jointly organized by the Kyoto University, the National Taiwan University, and the Vienna University of Technology. Since its first conference in Vienna, in 2010, ICFS has been held twice in Europe and once in Asia. Following the great success of the third conference in Taiwan, it is our honor to be able to host the 4th ICFS here in Kyoto.

Asia is regarded as a region with tremendous development activities and a vast potential for economic growth. The need for true harmony between environmental preservation and economic development is greater than ever before in the region where approaches on clean cycles and safe final sinks have only just begun. In this context, it is of great significance to hold the 4th ICFS again in Asia.

Dr. Paul H. Brunner, Professor Emeritus at the Vienna University of Technology, first stressed the necessity of shifting the research focus from the points of material flow analysis to sustainable material management, which led to the development of the Final Sinks in the 21st century. In 2015, Prof. Hwong-Wen Ma of the National Taiwan University took the initiative to host the 3rd ICFS with the theme of "From Product Design to Clean Cycles and Safe Final Sinks". I recognize this move and their messages from their past efforts as follows; we not only need to shift our stance to cyclical use of resources, but also must find ways to properly manage and control hazardous substances, and implement effective policies for final sinks.

The 4th ICFS will focus on Life Cycle Thinking, with the aim of raising awareness on "How can cleaner production and waste prevention reduce the need for sinks?". In order to estimate material flows and resource efficiency in the next generations of sustainable societies, it is a great challenge to realize cleaner production as well as prevent waste generation. The conference welcomes presentations and proposals that will benefit Asia, where an environment-friendly economic growth is indispensable.

Kyoto was once the capital of Japan, whose wonderful history goes back to more than 1,200 years. It has many beautiful temples and fine cultural heritage, where you can enjoy yourself in a relaxed and peaceful atmosphere. In addition, Kyoto is widely known as the city where the United Nations Framework Convention on Climate Change successfully adopted the Kyoto Protocol in 1997. Kyoto University, which is located in this fine city, is one of the leading universities in the world. Since its establishment 110 years ago, it has produced a significant number of research results in a broad range varying from natural science to humanities. I am looking forward to spending a pleasant time with you in Kyoto in autumn when leaves of the trees in the city turn beautiful colors of red, yellow, and orange.

Shinichi Sakai  
Kyoto, 1 December 2016



## History of Final Sinks

1st Final Sinks from September 23-25, 2010, Vienna, Austria  
2nd Final Sinks from May 16-18, 2013, Espoo, Finland  
3rd Final Sinks from August 23-26, 2015, Taipei, Taiwan

## Conference Agenda

The conference will have plenary and invited talks from eminent experts from fields related to the theme of the 4th Final Sinks 2017. Contributory papers will be reviewed by the committee, and selected papers will be presented in oral/poster sessions. The official language of the conference will be English.

## Conference Theme

The scientific program will consist of plenary session, keynote lectures, and oral/poster presentations. Through the discussions in the 1st to 3rd Final Sinks, this conference will go beyond landfilling and address the wider perspectives of Life Cycle Thinking, including cleaner production. The topics include:

1. Methodologies to follow materials through the economy
2. Design of products and systems in view of clean cycles and final sinks
3. Cross-counties supply chain materials management
4. Clean, cycle, and control of hazardous materials
5. Management of safe final sinks for conventional and nuclear wastes
6. The role of Waste-to-Energy and landfills as sinks
7. Novel utilizations of sink capacity and stocks
8. Socio economic issues related to material uses
9. Assessment methods for evaluation of sink services and constrains
10. Challenge for 3R & Sustainable development goals (SDGs)
11. Life cycle approach for a sustainable society
12. Waste prevention challenges

Both theoretical analyses as well as case studies focusing on cleaner production and final sinks are welcome.

## Call for Abstract

The abstract must be submitted as a PDF file. The entire abstract should be 2 pages, written in English. It is allowed to include figures and tables. The template for the abstract can be downloaded from the conference website.

The deadline for the abstract submission is ~~June 30~~, **August 25, 2017**.

Registration & Abstract Submission  
through website  
<http://icfs2017.org/>

## Accommodation

As autumn season is very crowded in Kyoto, **earlier reservation is highly recommended**. Accommodation for the Final Sinks participants has been arranged at the conference website.

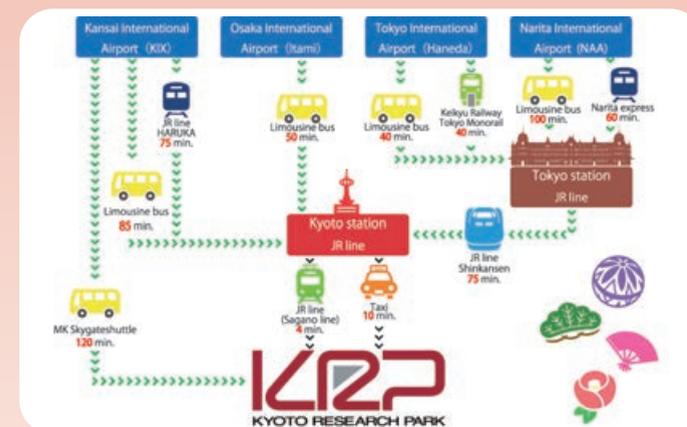
## Conference Venue

4th Final Sinks will be held at the Kyoto Research Park (KRP). Since its establishment over 25 years ago, KRP has hosted numerous international conferences. About 80,000 people participate in conferences held in KRP every year.



<Kyoto Research Park>  
134 Chudoji Minamicho, Shimogyo Ward, Kyoto 600-8813, Japan.

## Access to KRP



## Program a Glance

October	24	25	26	27
8:00		Registration		
9:00		Opening ceremony, Keynote speeches	Keynote speeches	Technical tour
10:00				
11:00				
12:00		Lunch	Lunch	
13:00		Sessions	Sessions	
14:00				
15:00				
16:00				
17:00	Registration			
18:00	Welcome party	Conference dinner	Closing ceremony	
19:00				
20:00				
21:00				