



ISCOWA

The International Society for the Environmental and  
Technical Implications of Construction with  
Alternative Materials



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



RESEARCH CENTRE FOR  
RESOURCES ENGINEERING TOWARDS CARBON NEUTRALITY  
±RCRE 碳中和資源工程研究中心

# International Webinar on Valorization of Waste Incineration Residues in Construction

Co-hosted by ISCOWA and The Hong Kong Polytechnic University  
29 and 30 March 2022 (A two half-day event)

**Background:** The use of waste to energy (incineration) technology for managing non-recyclable municipal solid waste has been gaining popularity since landfilling requires extensive land resources, which are not available in highly urbanized areas. But managing the incineration residues which account for about 20 percentage by mass of the original waste, is still a huge problem for waste management authorities. This Webinar aims to disseminate the latest state-of-the-art practice and research studies on valorization of waste incineration residues for use in construction. Renowned professionals and academics in the management of incineration residues area will be invited to deliver lectures.

**Day 1 : 29<sup>th</sup> March 2022 / Day 2 : 30<sup>th</sup> March 2022**

(Six presentations per day; Total: 12 presentations )

<b>Beijing/Hong Kong Time:</b>	3:00 pm - 6:00 pm
<b>Central European Time :</b>	9:00 am - 12:00 nn
<b>East European Time :</b>	10:00 am - 1:00 pm
<b>UK Time :</b>	8:00 - 11:00 am
<b>Japan Time:</b>	4:00 – 7:00 pm

All presentations will be pre-recorded via ZOOM.

Real time Q&A sessions after pre-recorded presentations.

## 29<sup>th</sup> March 2022

<b>Dr. Marian Langevoort</b> (TAUW BV, The Netherlands)	Application of MSWI bottom ash in The Netherlands. Regulation, type of applications and case study Appingedam
<b>Dr. Ole Hjelmar</b> (Danish Waste Solutions, Denmark)	Environmental aspects of the application of MSWI bottom ash as sub-base in road construction: Results from a large-scale demonstration site
<b>Dr. Giulia Costa</b> (University of Rome Tor Vergata, Italy)	Utilization potential of mineral fractions obtained from waste incineration bottom ash treatment: analysis of the leaching behaviour of the products of full-scale plants
<b>Dr. Jiri Hyks</b> (Danish Waste Solutions, Denmark)	Utilization of Incineration Bottom Ash (IBA) in constructions: Experience, limitations, and prospects
<b>Dr. Paula Carey</b> (Carbon8 Systems Ltd, UK)	The use of accelerated carbonation technology in the treatment of incinerator residues and the manufacture of aggregate for construction applications
<b>Prof. Pinjing He</b> (Tongji University, China)	Practice and challenges for beneficial use of municipal solid waste incineration bottom ash

## 30<sup>th</sup> March 2022

<b>Dr. En-Hua Yang</b> (Nanyang Technological University, Singapore)	Municipal solid waste incineration bottom ash for civil engineering materials
<b>Dr. Josep Ma. Chimenos Ribera</b> (University of Barcelona, Spain)	MSW incineration bottom ash as a precursor in the formulation of alternative Portland cement
<b>Dr. Hirofumi Sakanakura</b> (National Institute for Environmental Studies, Japan)	Current status and ongoing research on recycling of incineration residues in Japan
<b>Prof. Takayuki Shimaoka</b> (Kyushu University, Japan)	Potential of recovery of hydrogen gas from bottom ash
<b>Dr. Karin Karlfeldt</b> (Renova, Sweden)	Can MSWI fly ash be used in construction?
<b>Prof. Colin Hills / Dr. Nimisha Tripathi</b> (University of Greenwich, United Kingdom)	New insights into biomass ash valorization

**Scan or click here to register:**

**<https://reurl.cc/xOOMg4>**

**Fee: Free (ISCOWA Members and PolyU staff/students)**

**EUR €50 (ISCOWA 2022 membership + Webinar)**

**EUR €25 (Non members)**

**(Successful applicants will receive the ZOOM link before the event.)**

