

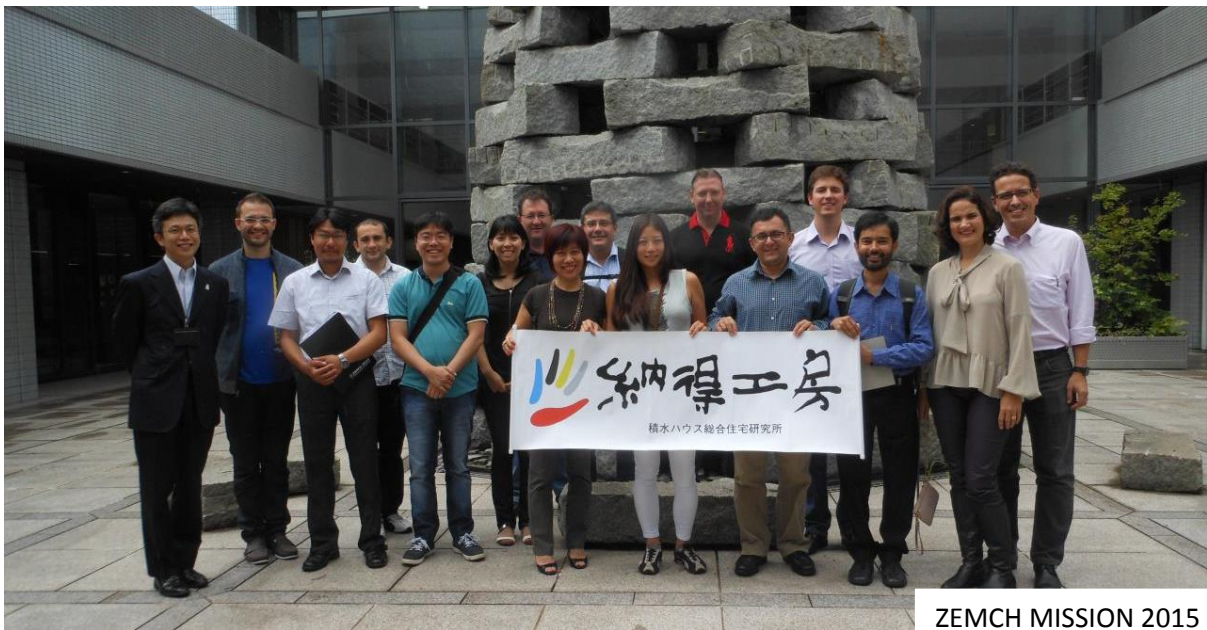


## ZEMCH Mission to Japan 2018

28th May - 1st June 2018

'ZEMCH' is an abbreviation of zero energy mass custom homes that encompass social, economic and environmental sustainability as a whole. Indeed, housing is a system of energy and environment and it is required to accommodate wants and needs of individuals and society, which are usually considered to be diverse and dynamic.

The ZEMCH Mission to Japan started from 2006 and this sustainable industrialised housing technical tour has been welcoming nearly 200 delegates from around the world to date. As the original purpose, the ZEMCH Mission aims to offer construction industry professionals, academics and government officers opportunities to visit not only the state-of-the-art production facilities of leading housing manufacturers in Japan, but also the sales centres where a number of model homes are displayed allowing potential homebuyers to examine high-cost performance housing quality.





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During the 1960s and 1970s, Japanese housing manufacturers focused solely on the mass production of their products, resulting in a supply of virtually identical, rather monotonous houses. Due to the inferior image associated with the low-quality appearance of these mass produced houses, the public immediately rejected industrialised homes. Since then, the manufacturers have placed greater emphasis on improving housing quality, and thereby customer satisfaction, such that Japanese housing manufacturers today enjoy a reputation for providing reasonably-priced quality housing that, while still mass-produced, is customised—i.e. *mass customisation*.



ZEMCH Mission to Japan had been carried out over the last years with the aim to enhance the public awareness of zero energy homes delivered successfully around the globe. Over 70 delegates already joined the mission and developed their own ZEMCH prototypes in view of their local market needs and demands.

Japanese housing manufacturers have been at the forefront of producing marketable and replicable mass custom homes whose utility bills are as close as zero. Using techniques passed down from ancient times, Japan has developed houses suitable to its distinguish climatic conditions. For instance, there is a rigorous structure resistance to earthquakes and *typhoons*. *Open indoor environment allows for comfortable living during the hot summers*.



Home amenities studios provide potential homebuyers opportunities to understand safety, amenity and structural and environmental performances in housing by experience.



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	MORNING	AFTERNOON	EVENING
-	<b>DEPARTURE</b>	<b>ARRIVAL</b>	<b>ACCOMMODATION</b>
<b>27<sup>th</sup> May (Sunday)</b>	<b>From Local Airport</b>	<b>Narita International Airport or Haneda International Airport</b>	<b>Check-in: Shinagawa Tobu Hotel (Shinagawa, Tokyo)</b>
<b>DAY 1</b>	<b>RESEARCH LAB VISIT I</b>	<b>RESEARCH LAB VISIT II &amp; III</b>	<b>ACCOMMODATION</b>
<b>28<sup>th</sup> May (Monday)</b>	<b>University of Tokyo (Meguro, Tokyo)</b> - Smart house - Zero energy building	<b>Misawa Home Total Research Centre &amp; Kogakuin University (Tokyo)</b> - Research facilities	<b>Shinagawa Tobu Hotel (Shinagawa, Tokyo)</b>
<b>DAY 2</b>	<b>FACTORY VISIT I &amp; EXHIBITION VISIT I</b>	<b>FACTORY VISIT I (CONT.)</b>	<b>ACCOMMODATION</b>
<b>29<sup>th</sup> May (Tuesday)</b>	<b>Sekisui House, Ltd. (Koga, Ibaraki)</b> - Steel frame production line - Recycling facility - Zero carbon emission house	<b>Sekisui House, Ltd. (Koga, Ibaraki)</b> - Steel frame production line - Recycling facility - Zero carbon emission house	<b>Check-in: Loisir Hotel Toyohashi (Toyohashi, Aichi)</b>
<b>DAY 3</b>	<b>FACTORY VISIT II</b>	<b>FACTORY VISIT III</b>	<b>ACCOMMODATION</b>
<b>30<sup>th</sup> May (Wednesday)</b>	<b>Sekisui Chemical Co., Ltd. (Heim) (Toyohashi, Aichi)</b> - Building integrated PV - 3D module assembly line - Wood & steel unit systems	<b>Misawa Homes Co., Ltd. (Konan, Aichi)</b> - Building integrated PV - 3D module assembly line - Multifunctional panels	<b>Check-in: Hotel Nikko Osaka (Chuo, Osaka)</b>
<b>DAY 4</b>	<b>EXHIBITION VISIT II</b>	<b>NETWORK TOUR</b>	<b>ACCOMMODATION</b>
<b>31<sup>st</sup> May (Thursday)</b>	<b>Daiwa House Industry Co., Ltd. (Sakyo, Nara)</b> - Safety and comfort - Environmental technology - Robotics	<b>UNESCO World Heritage Sites (Nara &amp; Kyoto)</b> - Kinkakuji - Kiyomizu-dera	<b>Hotel Nikko Osaka (Chuo, Osaka)</b>
<b>DAY 5</b>	<b>EXHIBITION VISIT III</b>	<b>EXHIBITION VISIT IV</b>	<b>ACCOMMODATION</b>
<b>1<sup>st</sup> June (Friday)</b>	<b>LIXIL Corp. (Osaka, Osaka)</b> - System bath unit - Kitchen and equipment - Wall and floor tiles	<b>Sekisui House, Ltd. (Airaku, Kyoto)</b> - Universal design - Environmental considerations - Structural design	<b>Hotel Nikko Osaka (Chuo, Osaka)</b>
-	<b>TRAVEL</b>	<b>ARRIVAL</b>	<b>ACCOMMODATION</b>
<b>2<sup>nd</sup> June (Saturday)</b>	Travelling from Osaka to Tokyo	Arrival in Tokyo	<b>Check-in: Local Hotel of Delegates' Choice in Tokyo</b>



**ZEMCH Mission to Japan 2018**  
28th May - 1st June 2018

**REGISTRATION FORM**

To book a place, please complete and send the following registration form to:

Dr Masa Noguchi  
ZEMCH Network Coordinator  
Melbourne School of Design, Building 133  
Faculty of Architecture, Building and Planning  
The University of Melbourne  
Parkville  
Victoria 3010  
Australia  
E-mail: [masa.noguchi@unimelb.edu.au](mailto:masa.noguchi@unimelb.edu.au)

**CONTACT INFORMATION:**

Surname Name: Mr / Ms \_\_\_\_\_

Given Name: \_\_\_\_\_

Middle Initial (if any): \_\_\_\_\_

Title: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Postal Code: \_\_\_\_\_

Phone (country + area code): \_\_\_\_\_

Fax (country + area codes): \_\_\_\_\_

Email Address: \_\_\_\_\_





## ZEMCH Mission to Japan 2018

28th May - 1st June 2018

### IMPORTANT DATES

31 <sup>st</sup> March 2018	Expression of Interest
7 <sup>th</sup> April 2018	Registration Deadline
14 <sup>th</sup> April 2018	Hotel Reservation Request
20 <sup>th</sup> April 2018	Online Mission Registration Fee Payment Due*

\* Delegates cancelling from now until 27<sup>th</sup> April 2018 will receive a 50% refund. There will be no refund afterwards.

### COST ESTIMATE (APPROXIMATE)

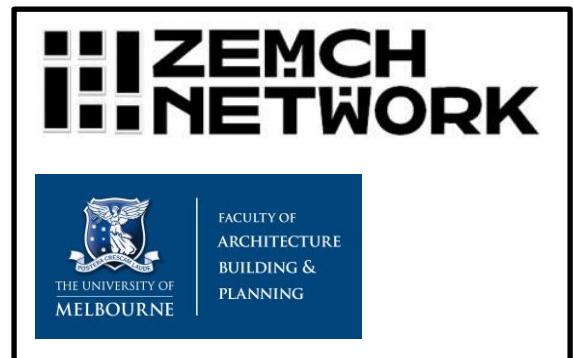
❖ Airfare:	A\$1,000 (As per the departure city)
❖ Accommodation:	A\$900 (\$150 per night x 6 nights)
❖ Mission Registration Fee:	A\$1,500 (Bus, taxi, train, interpreter, lunch, UNESCO site entrance tickets) **

\*\* ZEMCH Network is responsible only for collection of the Mission Registration Fee, which will be used to cover the costs for the mission coach, Japanese-English interpreter, local and bullet train, taxi, lunch & water, and 3-day bus arrangements. The rest of expenditures including the hotels, dinners, and Umeda Sky Building entrance charge will be paid by the delegates in Japan so that all delegates can collect their own receipts.

### MISSION ORGANISER

Faculty of Architecture, Building and Planning  
The University of Melbourne

Dr. Masa Noguchi  
ZEMCH Network/Mission Coordinator  
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E-mail: [masa.noguchi@unimelb.edu.au](mailto:masa.noguchi@unimelb.edu.au)



### MISSION COLLABORATORS / SPONSORS

