


International Collaboration
NCREE-Tokyo Institute of Technology-
Nagoya Institute of Technology

國際合作情形-研究計畫

國際重要學術機構

- 本中心與日本東京工業大學 (Tokyo Institute of Technology)、日本名古屋工業大學 (Nagoya Institute of Technology)
 - 合作計畫：鋼筋混凝土樁帽剪力強度尺寸效應研究
 - 合作時間：2018~2020年，共三年
 - 成果：試驗求得鋼筋混凝土樁帽剪力強度之尺寸效應，建議修正規範之尺寸效應公式，並提供評估樁帽剪力強度之解析方法。
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MOU between NCREE and TIT

**MEMORANDUM OF UNDERSTANDING
BETWEEN
NATIONAL CENTER FOR RESEARCH ON EARTHQUAKE ENGINEERING,
NATIONAL APPLIED RESEARCH LABORATORIES, TAIWAN
AND
SCHOOL OF ENVIRONMENT AND SOCIETY,
TOKYO INSTITUTE OF TECHNOLOGY, JAPAN**

WHEREAS the National Center for Research on Earthquake Engineering (NCREE), National Applied Research Laboratories (NARLabs), Taiwan and the School of Environment and Society, Tokyo Institute of Technology, Japan with a vision to promote bilateral cooperation in science and technology development and to further strengthen the relations between the two organizations, have agreed as follows:

ARTICLE I

The NCREE, NARLabs and the School of Environment and Society, Tokyo Institute of Technology (hereafter referred to as “**the Parties**”) have agreed to promote joint research and development projects in the areas of earthquake engineering in accordance with the principles of equality, reciprocity, and cooperation. The Parties shall select by mutual written agreement the specific topics for joint research and development projects.

ARTICLE II

The Parties shall, on a best effort basis, facilitate the exchange of scientific and technical personnel of each organization necessary for the implementation of this memorandum of understanding (“MOU”).

ARTICLE III

The Parties shall collaborate on the holding of regular joint workshops. The themes, dates, and venues for the workshops shall be decided and agreed upon by the Parties.

ARTICLE IV

The Parties will seek financing of cooperation activities to which they have agreed from sources available to them. The Parties understand that all financial arrangements are to be negotiated and will depend on the availability of funds.

ARTICLE V

The Parties shall keep and maintain all information communicated and/or provided under this MOU or their collaboration as strictly confidential and shall not disclose the confidential information to any third parties.

Each of the Parties shall promptly report all project results to the other Party. Unless otherwise agreed in

a separate agreement, all intellectual property rights for any invention, idea, device, design, know-how, etc., generated through the joint efforts of the Parties as a result of the joint research and development projects (i.e., the “Joint Invention” and “Joint Intellectual Property Rights”) shall be jointly owned by the Parties in proportion to the intellectual, human and material contributions of each.

The Parties shall separately execute an agreement in writing which sets forth the share of ownership, the choice of territories, the allotment of the expenses for filing an application, and the appointment of the Party in charge of the protection, exploitation and maintenance of the Joint Intellectual Property Rights.

ARTICLE VI

This MOU shall enter into force on the date of signature by the authorized representatives of both Parties. This MOU shall remain in force for five years. During this initial five years’ period, either Party may terminate this MOU before its nominal expiration date by providing six months’ prior written notice to the other Party. This MOU may be extended after the initial period by mutual written agreement between the Parties.


The termination or the non-renewal of the MOU will not affect the validity or the implementation of the arrangements already conducted by the NCREE, NARLabs and the School of Environment and Society, Tokyo Institute of Technology.

ARTICLE VII

This MOU has been executed in English, with one counterpart for each party, each of which shall be deemed an original and both of which together shall be deemed to be one and the same instrument. This MOU may be revised or supplemented as necessary with the written consent of both Parties.

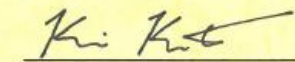
**FOR THE NATIONAL CENTER FOR RESEARCH
ON EARTHQUAKE ENGINEERING, NATIONAL
APPLIED RESEARCH LABORATORIES,
TAIWAN**

**FOR THE SCHOOL OF ENVIRONMENT AND
SOCIETY, TOKYO INSTITUTE OF
TECHNOLOGY, JAPAN**



**SHYH-JIANN HWANG
DIRECTOR**

DATE: *Jan. 22, 2018*



**KIKUO KISHIMOTO
DEAN**

DATE: *Feb. 1, 2018*

Invoice to Tokyo Institute of Technology

Invoice

Quotation of "Pile-cap Research"

Consignor: Kazuhiko Kasai

Date: 2018 / 06 / 06

Company: Tokyo Institute of Technology

Address: 4259-J5-14, Nagatsuta-cho, Midori-ku, Yokohama, Kanagawa 226-8503, Japan

Tel: +81-45-924-5512 Fax: +81-45-924-5525

E-mail: kasai.k.ac@m.titech.ac.jp

Item	Description	Q'ty	Unit	Unit price	Amount
	Pile-cap Joint Research	1	set		¥7,249,620
	Details				
1	Magnification of pile cap specimens	145	man-days	¥33,680	¥4,883,600
2	Performing experiments	50	man-days	¥33,680	¥1,684,000
3	Miscellaneous	10	man-days	¥33,680	¥336,800
	Summation				¥6,904,400
	Tax (5%)				¥345,220
	Total(EX-WORKS)				¥7,249,620

- 1) The bank wiring transfer fees are not included in the above prices.
- 2) Please confirm and sign back within 20 working days after receiving this quotation.
- 3) This quotation is based on mutual agreement, it should be re-quoted for any adjustment after confirming order.
- 4) Validity: 1 month from the date issued.
- 5) PAYMENT: BY T/T

Beneficiary: National Center for Research on Earthquake Engineering

Bank name: HUA NAN COMMERCIAL BANK, LTD. TAI TA BRANCH

Bank address: No. 1, Sec. 4, Roosevelt Rd. Taipei, Taiwan, R.O.C.

A/C No: 154-10-000280-0

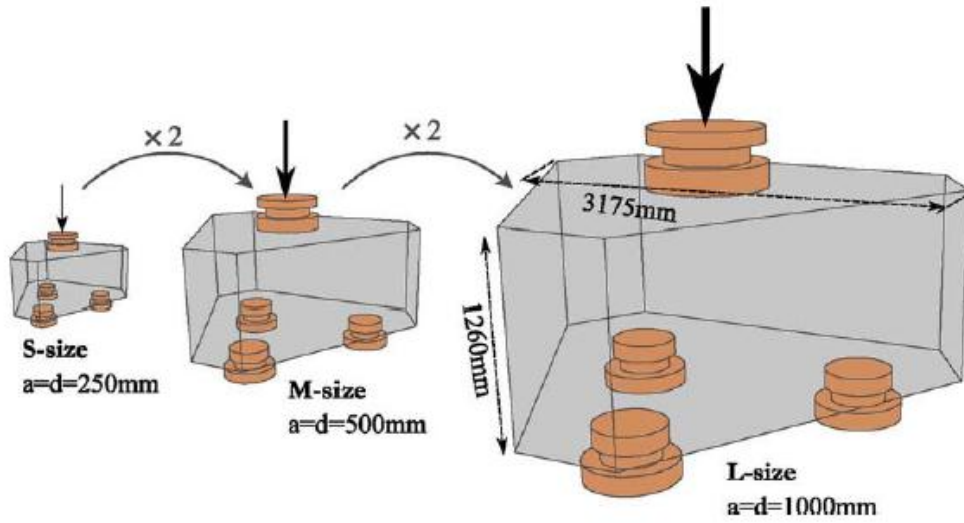
SWIFT CODE: HNBKTWTP154

Customer _____

NCREE Shyh-Jiann Hwang



實驗計畫與台南實驗室試體製作



NCREE 台南實驗室測試



得獎論文

獎項： ACI Wason Medal for Most Meritorious Paper - 2025

論文： Laughery, L., Ichinose, T., Kasai, K., Mogili, S., and Hwang, S. J. (2024). “Experimental Investigation of Size Effect on Shear Strength of Reinforced Concrete Pile Caps,” ACI Structural Journal, Vol. 121, No. 1, pp. 105-117.
<https://doi.10.14359/51739188>.

獲獎通知



July 7, 2025

Shyh-Jiann Hwang
National Taiwan University
Department of Civil Engineering
No 1 Sec 4 Roosevelt Road
Taipei 106
Taiwan

Dear Mr. Hwang,

On behalf of the Board of Direction, it is my honor and privilege to inform you that you have been selected to receive The Wason Medal for Most Meritorious Paper.

This honor was bestowed by the ACI Board of Direction for your coauthored paper specifically titled:

“Experimental Investigation of Size Effect on Shear Strength of Reinforced Concrete Pile Caps,” published in the January 2024 issue of the *ACI Structural Journal*, pp. 105-117

Announcement of your selection will be made during the ACI Fall 2025 Concrete Convention, October 26-29, 2025, at The Hilton Baltimore & Marriott Baltimore Inner Harbor, USA. Information regarding the actual presentation of your award will be forthcoming.

You and your coauthors are invited to give a presentation on your winning paper during the “Paper Awards Presentation Session: Published in 2024.” This session is scheduled at The Hilton Baltimore on Tuesday, October 28, from 11:00 a.m. - 1:00 p.m. ET. Additional Information regarding this presentation of your paper will be forthcoming.

In preparation for this event, as well as for publicity purposes, please assist us by completing the Awardee Information Form. We are also asking you to provide a current professional photograph of yourself (business attire, please), preferably in color. This photo should be 4” x 6” and 300 dpi resolution in jpeg or tiff format.

Please send your completed form and photo (as an attachment) to Rachel Belcher, Awards Coordinator, via e-mail, at Rachel.Belcher@concrete.org, by **July 28, 2025**, to provide sufficient lead-time for publication. We will then send you the appropriate convention registration materials, as well as more detailed information about the Awards Program.

If for some reason you are not able to attend the convention to accept your award, it will be mailed to you following the conclusion of the convention.

Congratulations on this well-deserved honor! We look forward to seeing you at the Baltimore Convention this fall.

Sincerely,

A handwritten signature in black ink, appearing to read 'Frederick H. Grubbe'.

Frederick H. Grubbe
Executive Vice President

Certificate



American Concrete Institute
Always advancing

Wason Medal for Most Meritorious Paper

presented to

Shyh-Jiann Hwang

October 26, 2025

The paper "Experimental Investigation of Size Effect on Shear Strength of Reinforced Concrete Pile Caps," published in the January 2024 issue of the ACI Structural Journal, pp. 105-117, is awarded the Wason Medal for Most Meritorious Paper

A handwritten signature in black ink, appearing to read "M. Juenger", written over a horizontal line.

Maria Juenger, ACI President

A handwritten signature in black ink, appearing to read "Frederick H. Grubbe", written over a horizontal line.

Frederick H. Grubbe, ACI Executive Vice President

Medal Plate



Ceremony Photo with ACI Present Maria Juenger

