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## **4th IPA Research Grant Award**

### **Call for Research Proposals**

Submission period: **16 April – 15 July 2012**

Proposals must be submitted to the IPA Secretariat by email.

No proposals will be accepted after this date.

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#### **The IPA starts calling for proposals for the 4th round of research grants.**

The IPA intends to award up to five IPA Research Grants in response to this call, each with a maximum value of US\$10,000. The Grants will run for a 12 month period (1 April 2013 – 31 March 2014) for research activity. The 4th Research Grant Award winners will be invited to the 4th and 5th IPA International Workshops.

This 4th call for research proposals encourages proposals linked to the key themes listed below, taken from the reference Map of Research and Development. When you apply for this call, please use the proposal form to submit your research proposal.

1. Study on the collection and analysis of subsurface data using a pile being pressed-in, and correlation between performance of the pile. (visualization of underground)
  - e.g.1) Study on the technique to estimate bearing capacity of pile from data measured by press-in machine (press-in force, torque, press-in rate, etc.)
  - e.g.2) Study on the technique to visualize the behavior of a pile being pressed-in, by means of measurement or simulation
  - e.g.3) Study on the management of pressed-in piles driving.
  - e.g.4) Study on the construction control of pressed-in piles.
  - e.g.5) Study on the construction management of pressed-in piles.
2. Study on expanding the range of ground conditions suitable for press-in piling
  - e.g.1) Study on the range of ground condition suitable for pile jacking by Silent Piler
  - e.g.2) Study on the range of ground condition suitable for Gyropiling (rotary jacking) by Gyro Piler
  - e.g.3) Study on the effect of press-in auxiliary methods such as friction cutters, augering, water jetting, etc.
  - e.g.4) Study on the influence on adjacent structure of a tubular or sheet pile being pressed-in
3. Study on behavior of piles or performance of structures after completion of press-in
  - e.g.1) Study on structural design methods which include the feature of pressed-in piles
  - e.g.2) Study on the time-dependent behavior of pressed-in piles, such as set-up, relaxation, etc.
  - e.g.3) Study on long-term monitoring after completion of press-in piling
  - e.g.4) Study on the earthquake resistance of a circular structure for underground bicycle park or car park

## Evaluation

The Selection Committee, appointed by the Award Committee, will comprise:

Dr Tagaya	The Award Committee Chairman	(Emeritus Professor, Kochi National College of Technology)
Mr Kitamura	IPA Honorary Chairman	(President, Giken Seisakusho Co., Ltd.)
Prof. Bolton	IPA Chairman	(Professor, University of Cambridge)
Prof. White	IPA Director	(Professor, University of Western Australia)
Mr Iizuka	IPA Director	(Fellow, The Japan Society of Mechanical Engineers)
Dr Okumura	IPA Secretary General	(Director Research, Engineering Advancement Association of Japan)
Mr Nagayama	IPA Individual Member	(Executive Officer, Giken Seisakusho Co., Ltd.)
Mr Tanouchi	IPA Technical Adviser	(General Manager, Giken Seisakusho Co., Ltd.)

### Proposals will be evaluated based on the following criteria.

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| 1. Contribution to science and technology   | Weight 1 to 4 |
| 2. Possibility of achievement   | Weight 1 to 4 |
| 3. Practicability, possibility of application   | Weight 1 to 5 |
| 4. Educational value for younger engineers  | Weight 1 to 3 |
| 5. Contribution to quality, sustainability, safety and improvement of construction environment                    | Weight 1 to 5 |
| 6. Promotion of press-in method, contribution to particular countries and local areas, effect of investment, etc. | Weight 1 to 3 |

The Selection Committee may seek further information from the Principal Investigator following receipt of the proposals.

## Schedule

Details and the latest schedule will be announced at the IPA website.

### 1. 15 April – 15 July 2012

Proposals must be submitted to the IPA Secretariat. No proposals will be accepted after this date.

### 2. 14 September 2012

Successful applicants will be informed by the IPA Award Committee.

### 3. 6-7 December 2012

The 4th Workshop will be held in Singapore, at Mandarin Orchard Hotel. The 4th Research Grant Award winners will be invited and requested to make a presentation of their research plans at the workshop. Travel and accommodation costs of PIs will be met by IPA. This workshop will also include presentations from the 3rd Research Grant Award winners, lectures and discussion about Press-in Engineering.

### 4. March 2013

The IPA Administrative Committee will send the research grant to winners' bank accounts.

### 5. 1 April 2013 – 31 March 2014

The grants will run for a 12 month period for research activity.

### 6. April – September 2014

The IPA Award Committee will request to submit the final papers.

### 7. Winter, 2015 (Plan)

The 4th Research Grant Award winners will be invited to make presentations at the 5th IPA International Workshop.

## Proposal Form

The proposal form can be downloaded from the IPA website mentioned below. Proposals should be sent to the IPA Secretariat ([tokyo@press-in.org](mailto:tokyo@press-in.org)) by email attachment in Acrobat or Word file.