

## **3rd IPA Research Grant Award**

### **Award Description**

Submission period: **15 April – 15 June 2010**

Proposals must be submitted to the IPA Secretariat by email.

No proposals will be accepted after this date.

#### **The IPA starts calling for proposals for the 3rd 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 2011 – 31 March 2012) for research activity. The 3rd Research Grant Award winners will be invited to the 3rd and 4th IPA International Workshops.

This 3rd IPA Research Grant Award 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 (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

#### **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) Fundamental 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.

- |   |               |
|---|---------------|
| 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 June 2010

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

### 2. 2 August 2010

Successful applicants will be informed by the IPA Award Committee.

### 3. 14-15 October 2010

The 3rd Workshop will be held in Shanghai, at Okura Garden Hotel Shanghai, People's Republic of China. The 3rd 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 2nd Research Grant Award winners, lectures and discussion about Press-in Engineering.

### 4. March 2011

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

### 5. 1 April 2011 – 31 March 2012

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

### 6. April – September 2012

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

### 7. Winter, 2012 (Plan)

The 3rd Research Grant Award winners will be invited to make presentations at the 4th 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.