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## **Agenda Item 1 Activity Report 2011**

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### **Fiscal Year 2011 (1 Apr 2011 – 31 Mar 2012)**

#### **I. Research Activity**

1. Support for 3rd IPA Research Grant Award Winners to execute research.
  - 1-1. Dr Tagaya of IPA vice chairman, Mr Iizuka of IPA director, Dr Kikuchi of Port and Airport Research Institute and Dr Okumura of IPA Secretary General visited the following places as a press-in technical adviser to support 3rd IPA Research Grant Award winners.
    - ① 5 October 2011, Dispatch of technical advisers for Assoc. Prof. Taro Uchimura, The University of Tokyo
    - ② 17 November 2011, Dispatch of technical advisers for Mr Koji Watanabe, Obayashi Corporation
    - ③ 12 December 2011, Dispatch of technical advisers for Prof. Tatsunori Matsumoto, Kanazawa University
  - 1-2. Supporting Corporate member's request to monitor and investigate the behavior of press-in piles or sheet piles at construction sites.
2. Research Committee was held "3rd IPA Press-in Engineering Seminar" to spread and enlighten the press-in technology.
  - 2-1. The 3rd IPA Press-in Engineering Seminar in Kochi, 11th July 2011, 13:00-17:00 at Kochi Shinhankyu Hotel with approx 200 attendees.
    - Lecture 1: "The IMPLANT Structure: Transforming Construction, Globally."  
Mr Hiroyuki Yasuoka / Manager at Giken Seisakusho Co., Ltd.
    - Lecture 2: "Joint study result of Cambridge University and Giken Seisakusho Co., Ltd."  
Prof. Malcolm Bolton from / Cambridge University / IPA Chairman  
Mr Yukihiko Ishihara / Section chief at Giken Seisakusho Co., Ltd.
    - Lecture 3: "Current Status and Future Prospects for Press-in Technology in China"  
Prof. Fang-Le Peng / Tongji University / IPA Director
    - Lecture 4: "Challenges facing the piling industry and future perspective of press-in piling in Canada"  
Mr Michael Justason / Product Manager at Birmingham Foundation Solutions
    - Lecture 5: "Tsunami by Tohoku earthquake and Research results of piles"  
Dr Yoshiaki Kikuchi / Director for Special Research, Port & Airport Research Institute
    - Lecture 6: "Numeric conversion of Five Construction Principles"  
Mr Hideki Tsukamoto / Construction Project Consultants, Inc.

3. Published the 2nd IPA research papers “Press-in Engineering 2011” and presented it to the Japan National Diet Library as well as related parties and universities.
4. Prepared for Call for Research Proposal of 4th IPA Research Grant Award

## **II. International Workshop Activity**

1. Preparing for 4th IPA International Workshop
  - 1-1. 12 July 2011, Prof. Bolton had a meeting with the IPA Secretariat.
    - ① Singapore was selected as the place of 4th IPA International Workshop
    - ② Having site tour as same as 3rd IPA International Workshop
  - 1-2. The meeting about the 4th IPA International workshop in Singapore with Prof. Leung of National University of Singapore.
  - 1-3. 2th–6th November 2011, Dr Okumura and Mr Tanaka visited 5 hotels and Universities in Singapore and chose “Mandarin Orchard Hotel” as the workshop venue.

## **III. Committee Activity**

1. The Ordinary General Assembly
  - 1-1. An Ordinary General Assembly 2011 by e-mail was held at 7th June to 4th July 2011 and everybody agreed with all items.
2. Research Committee
  - 2-1. 4th October 2011, the first Research Committee meeting was held at IPC.  
The agenda was as follows;
    - ① Establishment committee of Five Construction Principles
    - ② Discussed the theme of 4th IPA Research Grant Award
  - 2-2. 12th December 2011, the 2nd Research Committee meeting was held at Kanazawa Universities.  
The agenda was as follows;
    - ① Discussed and made a draft of the theme of 4th IPA Research Grant Award
3. Public Relations Committee
  - 3-1. Public Relations Committee actively did Upgrade on homepage, Expansion of presentation tool and the press announcement.

## **IV. Public Relations**

1. Updating the IPA Website.
  - 1-1. Updated articles of the IPA Website.

2. Lecture

2-1. 7th June 2011, Secretary General Dr Okumura lectured “The activity in 2010 of IPA” at the JPA General Assembly.

3. Press release

3-1. Releasing news, topics and results of researches to Newspapers and Magazines.

**V. Service for member**

1. Recruiting New Members

1-1. IPA Promotion Team from Giken Seisakusho Co., Ltd. supported to recruit new Individual Members and Corporate Members.

31st March 2012: Total of Individual member: 462

Total of Corporate member: 26

Total of Student member: 6

## Agenda Item 2 Income and Expenditure Account 2011

### Fiscal Year 2011 (1 Apr 2010 – 31 Mar 2011)

(Unit: Japanese Yen)

Accounting Title	Budget	Actual	Difference	Note
<b>I Operating Activity</b>				
<b>1 Operating Income</b>				
① Entry Fee				
Corporate Member's Entry Fee	200,000	200,000	0	2 Companies
② Membership Subscription				
Individual Member's Annual Fee	4,620,000	4,590,000	(30,000)	470 Individuals
Corporate Member's Annual Fee	3,100,000	2,800,000	(300,000)	31Lots
③ Donation				
Donation	3,000,000	3,000,000	0	IPC Rent Expense from Giken
④ Miscellaneous Income				
Interest	4,112	4,506	394	
<b>Total Operating Income</b>	<b>10,924,112</b>	<b>10,594,506</b>	<b>(329,606)</b>	
<b>2 Operating Expenditure</b>				
① 3rd IPA Research Grants	3,123,900	3,123,900	0	send to 5groups
3rd IPA International Workshop	0	0	0	
Prepare for 4th IPA International Workshop	520,000	561,624	41,624	Venue visit
Reward for 2nd Reviewing Committee Members	0	0	0	
Reward for 3rd Selection Committee Membe	0	0	0	
Support for 3rd IPA Research Grant Winner	200,000	155,200	(44,800)	
Reward for Research Committee Members	150,000	95,000	(55,000)	2 times
Support for Press-in Engineering of China	0	0	0	
3rd IPA Press-in Seminar	883,889	883,889	0	Hold in Kochi
4th IPA Press-in Seminar	0	141,780	141,780	Hold in Tokyo
Publishing Press-in Engineering 2011	529,200	529,200	0	
Support for member of overseas	600,000	508,595	(91,405)	Shanghai, Taiwan
② Management and General				
Revision of IPA Website	550,000	133,350	(416,650)	
Making Membership Cards	0	0	0	
Printing Envelops and Covering Letters	40,000	12,350	(27,650)	
Translation fee	45,660	45,660	0	
International and Domestic Postage Expens	150,000	144,330	(5,670)	
Communication Expense	80,000	94,730	14,730	
Rent Expense	3,000,000	3,000,000	0	
Office Supplies Expense	110,000	170,464	60,464	
Commission Expense	100,000	67,812	(32,188)	
③ Domestic Travel Expense				
Secretariat	250,000	419,250	169,250	
Research Committee Members (include Social	250,000	343,657	93,657	2 times
④ Expense for Branch Activity				
Expense for Branch Activity	0	0	0	
<b>Total Operating Expenditure</b>	<b>10,582,649</b>	<b>10,430,791</b>	<b>(151,858)</b>	
<b>Surplus / (Deficit) of Income over Expenditure</b>	<b>341,463</b>	<b>163,715</b>	<b>(177,748)</b>	

(Unit: Japanese Yen)

Accounting Title	Budget	Actual	Difference	Note
<b>II Investment</b>				
<b>1 Investment</b>				
① Fixed Assets				
Fixed Deposit	4,000,000	4,000,000	0	
<b>Total Investment</b>	4,000,000	4,000,000	0	
<b>2 Investment</b>				
② Fixed Assets				
Fixed Deposit	6,000,000	6,000,000	0	
<b>Total Investment</b>	6,000,000	6,000,000	0	
<b>Surplus / (Deficit) of Investment Activity</b>	△ 2,000,000	(2,000,000)	0	
<b>III Contingency Expense</b>				
Contingency Fund	112,000	49,548	(62,452)	
Research Contingency Fund	100000	0	(100,000)	
<b>Surplus / (Deficit) of the Current Year</b>	(1,870,537)	(1,885,833)	(15,296)	
<b>Balance brought from the Previous Year</b>	4,293,458	4,293,458	0	
<b>Balance carried forward to the Next Year</b>	2,422,921	2,407,625	(15,296)	

監査の結果、重要な点において適正に表示しているものと認める。

2012年 4月 2日

監事

田中孝明

監事

Amy Lytle

In our opinion, the above statement of accounts are presented fairly in all material respects.

2, April, 2012,

Auditor

Auditor

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## **Agenda Item 3 Activity Plan 2012**

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### **Fiscal Year 2012 (1 Apr 2012 – 31 Mar 2013)**

#### **I. Research Activity**

**1. 4th IPA Research Grant Award proposal and presentation**

1-1. The schedule is as follows;

15 April	Call for research proposal
15 July	Deadline of submission
13 September	Finish of selecting the proposals
14 September	Announce winners to invite to the Award ceremony
6-7 December	Presentation of award at 3rd IPA International Workshop

**2. Support 3rd IPA Research Grant Award Winners to write full papers of research results**

**3. Support 4th IPA Research Grant Award Winners to execute research**

3-1. The specialists of press-in engineering are nominated as technological advisers and supporting 4th IPA Research Grant Award Winners to execute research work.

3-2. Supporting to reflect the construction site needs of corporate members to IPA research works.

**4. Preparing for making “Press-in Design Guideline”, “Press-in Construction Guideline”**

**5. Preparing for publishing “Press-in Engineering 2013”**

**6. Establishing the evaluation method of geological properties driven by press-in machine by Research Committee.**

6-1. Authorizing PPT (Pile Penetration Test) technology.

**7. Having the research result of presentations, report meetings of 4th IPA International Workshop and Press-in Engineering Seminar, make efforts to spread and enlighten the press-in technology.**

#### **II. International Workshop Activity**

**1. 6 and 7 December 2012, 4th IPA International Workshop will be held in Singapore.**

1-1. Selecting the place of 4th IPA International Workshop and the site of construction demonstration and Preparing for the program of 4th IPA International Workshop by Research Committee.

1-2. 4th IPA Research Grant Award ceremony and presentation of research plans by 4th IPA Research Grant Award Winners.

- 1-3. Presentation of research results by 3rd IPA Research Grant Award winners.
- 1-4. Presentations of the latest press-in technology and projects.
- 2. Selecting the place of 5th IPA International Workshop and the site of construction demonstration.
- 3. Strengthen network with other private, public and academic organizations.
  - 3-1. Exchanging engineering and research information with ASCE, DFI, Chinese Society of Civil Engineers, Shanghai Society of Civil Engineers, etc.
  - 3-2. Strengthening network with National University of Singapore, Tongji University in Shanghai, Taiwan National University and Seiko University in Taiwan, etc.

### **III. Committee Activity**

- 1. Enhancing activity of Administrative Committee to strengthen financial foundation.
- 2. Expanding members of Monitoring Subcommittee and Machinery Subcommittee to execute more active works of Research Committee.
- 3. Research Committee promotes collaboration research works with other private, public and academic organizations.
- 4. Review Committee is appointed by Research Committee will review research paper of 3rd IPA Research Grant Award winners.
- 5. Selection Committee is appointed by Award committee to select 4th IPA Research Grant proposals.
- 6. Public Relations Committee will promote the IPA actively at the press conference and updating the current website, make the substantial presentation tools and more.

### **IV. Public Relations Activity**

- 1. Revising webpage largely, updating webpage frequently and developing membership own site (outsourcing partially).
- 2. Making press releases at appropriate timing to newspapers and magazines regarding topics of Press-in seminars, research results, etc..
- 3. Making lectures of the IPA activities at the JPA(Japan Press-in Association) General Assembly, etc..
- 4. Promoting more public relations activities to the clients of press-in technology, especially to Tohoku earthquake and in this year and reconstruction supporting to reflect to bidding specifications

### **V. Service for member**

- 1. Recruiting new members, especially new corporate members more actively. Recruiting new corporate members at the events organized by JPA to cooperate with JPA.
- 2. Giving more services to IPA members by using IPC( International Press-in Center) based at Shinagawa in Japan.
- 3. Supporting domestic and overseas Individual and Corporate member's activities, especially in Singapore, Thailand, shanghai and Taiwan in this year more actively.

## Agenda Item 4 Income and Expenditure Budget 2012

**Fiscal Year 2011(1 Apr 2011-31 Mar 2012)**

(Unit: Japanese Yen)

Accounting Title	Actual 2011	Budget 2012	Difference	Note
<b>I Operating Activity</b>				
<b>1 Operating Income</b>				
① Entry Fee				
Corporate Member's Entry Fee	200,000	200,000	0	2 Companies
② Membership Subscription				
Individual Member's Annual Fee	4,590,000	4,600,000	10,000	460 Individuals
Corporate Member's Annual Fee	2,800,000	3,000,000	200,000	31 Lots
③ Donation				
Donation	3,000,000	3,000,000	0	IPC Rent Expense from Giken
④ Miscellaneous Income				
Interest	4,266	2,000	(2,266)	
<b>Total Operating Income</b>	<b>10,594,266</b>	<b>10,802,000</b>	<b>207,734</b>	
<b>2 Operating Expenditure</b>				
① Project Expenditure				
3rd IPA Research Grants	3,123,900	0	(3,123,900)	
4th IPA Research Grants	0	4,000,000		
3rd IPA International Workshop	0	5,110,000	5,110,000	
Prepare for 3rd IPA International Workshop	561,624	300,000	(261,624)	ACUUS
Report meetings of 4th IPA International Workshop	0	200,000		Tokyo, Kochi
Publishing Press-in Engineering 2011	529,200	0	(529,200)	
Reward for Reviewing Committee Members	0	180,000	180,000	12papers*3per
Support for 3rd IPA Research Grant Winners	155,200	100,000	(55,200)	Kanazawa
Reward for Selection Committee Members	0	150,000	150,000	10papers*5per
Support for 4th IPA Research Grant Winners	0	100,000	100,000	
Reward for Research Committee Members	95,000	100,000	5,000	
3rd IPA Press-in Engineering Seminar	883,889	0		
5th IPA Press-in Engineering Seminar	0	400,000	400,000	Kochi
Support for Site Monitoring	508,595	300,000	(208,595)	taiwan(SSMS2012)
② Management and General				
Revision of IPA Website	133,350	150,000	16,650	
Making Membership Cards	0	40,000	40,000	
Printing Envelops and Covering Letters	12,350	40,000	27,650	
Translation fee	45,660	50,000	4,340	
International and Domestic Postage Expense	138,530	150,000	11,470	
Communication Expense	79,630	80,000	370	
Rent Expense	3,000,000	3,000,000	0	
Office Supplies Expense	164,425	160,000	(4,425)	
Commission Expense	66,552	400,000	333,448	Research Grants
③ Domestic Travel Expense				
Secretariat	147,290	300,000	152,710	
Research Committee Members (include Social Meeting)	266,077	200,000	(66,077)	
④ Expense for Branch Activity	0	0	0	
<b>Total Operating Expenditure</b>	<b>9,911,272</b>	<b>15,510,000</b>	<b>5,598,728</b>	
<b>Surplus / (Deficit) of Income over Expenditure</b>	<b>682,994</b>	<b>(4,708,000)</b>	<b>(5,390,994)</b>	



(Unit: Japanese Yen)

Accounting Title	Actual 2011	Budget 2012	Difference	Note
<b>II Investment</b>				
<b>1 Investment</b>				
① Fixed Deposit	4,000,000	2,000,000	(2,000,000)	
<b>Total Investment</b>	4,000,000	2,000,000	(2,000,000)	
<b>1 Investment</b>				
① Fixed Assets				
Fixed Deposit	6,000,000	0	(6,000,000)	
<b>Total Investment</b>	6,000,000	0	(6,000,000)	
<b>Surplus / (Deficit) of Investment Activity</b>	△ 2,000,000	2,000,000	4,000,000	
<b>III Contingency Expense</b>				
Contingency Fund	33,440	50,000	16,560	
Research Contingency Fund	0	0	0	
<b>Surplus / (Deficit) of the Current Year</b>	(1,350,446)	(2,758,000)	(1,407,554)	
<b>Balance brought from the Previous Year</b>	4,293,458	2,943,012	(1,350,446)	
<b>Balance carried forward to the Next Year</b>	2,943,012	185,012	(2,758,000)	

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## **Agenda Item 5 Election of Directors and Auditors**

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Pursuant to Article 15 of IPA Constitution, the following person is proposed as a new Director of IPA for the term to 31 March 2014.

### **Candidate for Vice Chairman**

Name: Fang-Le Peng  
Current Position: Full Professor, Director of Underground Space Center, Tongji University  
Citizenship: Chinese  
Present Address: Department of Geotechnical Engineering, School of Civil Engineering, Tongji University, No 1239 Siping Rd., Shanghai 200092, P. R. China  
E-mail: [pengfangle@tongji.edu.cn](mailto:pengfangle@tongji.edu.cn); pengfangle@gmail.com

### **Education Background**

Sept.1983-July 1987: BEng in Civil Engineering, Department of Civil Engineering, Tongji University, Shanghai, China  
Sept. 1987-March 1990: MSc in Civil Engineering, Department of Geotechnical Engineering, Tongji University, Shanghai, China  
Apr. 1997-Sept. 2000: Dr of Eng. in Civil Engineering, Department of Civil Engineering, The University of Tokyo, Tokyo, Japan

### **Professional Experience**

Apr. 1990-March 1991: Teaching Assistant, Department of Geotechnical Engineering, Tongji University, Shanghai, China  
Apr. 1991- Nov. 1993: Assistant Professor, Department of Geotechnical Engineering, Tongji University, Shanghai, China  
Dec. 1993- March 1997: Research Engineer, Japan Shield Tunnel Engineering Consultant Co. Ltd., Tokyo, Japan  
Oct. 2000- Sept. 2001: Post-Doctoral Research Fellow, Department of Civil Engineering, the University of Tokyo, Japan  
Oct. 2001-Sept. 2004: Chief Research Engineer, Technical Development Division, Shiraishi Corp., Tokyo, Japan  
Oct. 2004-Date: Professor in Civil Engineering, Department of Geotechnical Engineering, Tongji University, Shanghai, China  
Jun. 2010-Date: Director in International Press-in Association, Japan  
Oct. 2010-Date: Special presentation at 3rd IPA International Workshop.  
Jul. 2011-Date: Presentation at 3rd IPA Press-in Engineering Seminar.

### **Research Interests**

Constitutive modeling and numerical analysis in geotechnical engineering, geosynthetic-reinforced soil structures, advanced underground construction method and urban geo-space planning, and has published 2 books and more than 120 papers.  
Contributed a full reviewed paper to the "Press-in Engineering 2011".

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## Candidates for Director

Name: Leung Chun Fai  
Current Position: Full Professor,  
Department of Civil and Environmental Engineering  
National University of Singapore  
Citizenship: Singapore  
Present Address: Department of Civil and Environmental Engineering, National University of  
Singapore, 1 Engineering Drive 2, E1A 07-03 Singapore 117576  
E-mail: [ceelcf@nus.edu.sg](mailto:ceelcf@nus.edu.sg)

## Education Background

B Eng., Civil Engineering, University of Liverpool, UK, 1977  
PhD, Geotechnical Engineering, University of Liverpool, UK, 1981

## Professional Experience

Professional Engineer (Geotechnical specialist) registered with Singapore Professional Engineers Board

Chartered Engineer registered with Chartered Engineers Board, UK

Served as geotechnical consultant in over 100 projects in Singapore, Malaysia, Vietnam, Indonesia, Brunei, Saudi Arabia.

## Research Interests

Research interests in foundation, soil-structure interaction, offshore geotechnics.

Published over 100 articles in journals and conferences.

Invited to make about 20 keynote/invited lectures at international geotechnical and offshore engineering conferences.

Members of editorial boards of several international geotechnical and offshore engineering journals.

Technical Committee member of ISO Jack-up foundation panel.

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## Candidates for Director

Name: Yoshiaki Kikuchi  
Current Position: Professor, Department of Civil Engineering, Faculty of Science and  
Technology, Tokyo University of Science  
Citizenship: Japanese  
Present Address: Department of Civil Engineering, Faculty of Science and Technology, Tokyo  
University of Science, 2641 Yamazaki, Noda-shi, Chiba 278-8510, JAPAN  
E-mail: [kikutnorge@gmail.com](mailto:kikutnorge@gmail.com)

## Education Background

April 1977 – March 1981: BEng in Civil Engineering, Department of Civil Engineering, Faculty of

Engineering, The University of Tokyo

April 1981 – March 1983: MSc in Civil Engineering, Department of Civil Engineering, Graduate School of The University of Tokyo

### **Professional Experience**

April 1983 – May 1987: Research Engineer, Soil Mechanics Laboratory, Soils Division, Port and Harbour Research Institute, Ministry of Transport.(PHRI)

May 1987- April 1988: Engineer, Design Office, The 5th District of Port and Harbour Construction Bureau, Ministry of Transport

May 1988- March 1989: Senior Engineer, Design Office, The 5th District of Port and Harbour Construction Bureau, Ministry of Transport

April 1989 - May1996: Senior Research Engineer, Soils Division, PHRI

May 1996 - March 2001: Head, Foundations Laboratory, Soils Division, PHRI

April 2001 - March 2009: Head, Foundations Division, Geotechnical and Structural Engineering Department, Port and Airport Research Institute.(PARI)

April 2009 – March 2011: Director, Geotechnical and Structural Engineering Department, PARI

April 2009 – : Member of Research Committee in International Press-in Association, Japan

Oct. 2010-Date: Special presentation at 3rd IPA International Workshop.

April 2011 – March 2012: Director for Special Research, Geotechnical and Structural Engineering, PARI

Jul. 2011-Date: Presentation at 3rd IPA Press-in Engineering Seminar.

April 2012 – present Professor, Department of Civil Engineering, Faculty of Science and Technology, Tokyo University of Science

### **Research Interests**

Main interested research fields are soil mechanics, foundations for port facilities, reuse of industrial and construction by-products used as geo-materials, and reliability based structural design method. More than 200 research publications have published.

Contributed a full reviewed paper to the “Press-in Engineering 2011”.

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### **Candidates for Director**

Name: Tatsunori Matsumoto

Current Position: Full Professor, School of of Environmental Design, College of Science and Engineering, Kanazawa University

Citizenship: Japan

Present Address: School of of Environmental Design, College of Science and Engineering, Kanazawa University  
Kakuma-machi, Kanazawa, Japan 920-1192  
E-mail: matsumot@t.kanazawa-u.ac.jp

### **Education Background**

Apr. 1974 - March 1978: Department of Civil Engineering, Faculty of Engineering, Kanazawa University. Awarded the degree of Bachelor of Engineering in Civil Engineering.

Apr. 1978 - March. 1979: Research student of Department of Civil Engineering, Kanazawa University.

Apr. 1979 - March 1981: Master Course of Civil Engineering, Graduate School of Kanazawa University. Awarded the degree of Master of Engineering in Civil Engineering.

March 1989: Awarded the degree of Doctor of Engineering for a thesis entitled "Estimation of

Dynamic and Static Bearing Capacity of Steel Pipe Piles" (in Japanese)  
from Kyoto University.

### **Professional Experience**

Apr. 1981 - March 1991: Research Associate at the Department of Civil Engineering, Kanazawa University.

Apr. 1991 - March 1998: Associate Professor at the Department of Civil Engineering, Kanazawa University.

Apr. 1999 - March 2008: Professor at Department of Civil Engineering, Graduate School of Natural Science and Technology and College of Science and Engineering, Kanazawa University.

Apr. 2008 - present: Professor at School of Environmental Design, College of Science and Engineering, Kanazawa University (due to recomposition of Kanazawa University)

March to Nov. 1994: Stay at Geotechnical Laboratory, Technical University of Delft, Department of Civil Engineering as an Overseas Fellowship by Japanese Ministry of Education and Science

April 2009 – : Member of Research Committee in International Press-in Association, Japan

Jul. 2011 : Summary Report at 3rd IPA Press-in Engineering Seminar.

### **Research Interests**

Pile foundations, Pile dynamics, Deformation analysis of piled foundations, Pile load testing method, Correlation of soil properties and pile bearing capacity.

The candidate has published more than 190 technical papers.