



## Youngshin, Geotechnical E&C and Pile Dynamics, Inc.

발표 Present

Seminar on Deep Foundation Integrity Testing and Wave Equation Analysis  
2019년 2월 19일 19 (화) February, 2019

동재하시험 워크샵  
High Strain Dynamic Foundation Testing Workshop  
2019년 2월 21일(수), 22일(목) February 20 & 21, 2019



**KOFST**  
Korean Federation of  
Science & Technology Societies

THE KOREAN FEDERATION OF SCIENCE AND  
TECHNOLOGY SOCIETIES

장소 : 한국과학기술관 신관2층

주소 : 서울시 강남구 테헤란로 7길 22(역삼동 635-4)

22 7gil Teheranro Kangnamku, Seoul

02)3420-1200 FAX : 02)563-4931 EMAIL : kofst@kofst.or.kr



**등록 Registration starts at 8:00 am**

**2019년 2월 19일 화 Tuesday, February 19, 7: 30 am – 5:00pm**

**State of Practice for Quality Control of Deep Foundations**

- 7:30 Registration 등록
- 8:15 Welcome 환영
- 8:30 QA/QC of Deep Foundations (Before or during installation) 시공전 말뚝의 품질관리
  - Overview: why do we test 시험목적
  - Pile Installation Recorder 현장타설말뚝 시공관리
  - Testing bottom cleanliness (SQUID) 천공말뚝 선단 지지력시험
  - Measure foundation excavation (SHAPE) 천공말뚝 공벽형상 초음파 측정
- 9:30 QA/QC of Deep Foundations (After installation) 시공 후 말뚝 품질관리
  - Low strain integrity (PIT) 말뚝 건전도 시험
- 10:00 Break 휴식
- 10:15 QA/QC of Deep Foundations (After installation), continued 시공 후 말뚝 품질관리, 연속
  - Crosshole Sonic Logging (CHA) 공대공 초음파 시험
  - Thermal Integrity Profiling (TIP) 수화열 건전도 시험
- 11:45 Wave Equation Analysis (GRLWEAP) 말뚝파동해석
- 12:15 Lunch 점심
- 1:15 Load Testing of Deep Foundations 말뚝재하시험
  - Static Load Testing Options (SLT) 정재하시험
  - High Strain Dynamic Testing (PDA) 동재하시험
  - CAPWAP Analysis 동재하시험 해석
- 3:00 Break 휴식
- 3:15 High Strain Dynamic Load Testing of Drilled Shafts 현장타설말뚝 동재하시험
- 4:00 PDA Myths
- 4:30 Discussion 토의
- 5:00 Adjourn



주식회사 지이엔씨  
Geotechnical E&C

2월 20일 수요일 Wednesday, February 20, 7:30am – 5:00pm

**High Strain Dynamic Foundation Testing Workshop part 1 동재하시험**

7:30 Registration 등록

8:30 Wave Mechanics (90 min) 파동방정식

10:00 Break 휴식

10:15 PDA Testing – Proper Practices 올바른 동재하시험

12:30 Lunch 점심

1:15 PDA Testing—Proper Practices, continued 올바른 동재하시험 연속

2:45 Dynamic Testing of Drilled Shafts and Augered Piles  
현장타설말뚝 동재하시험

3:15 Break 휴식

3:30 Set-up

4:15 PDA Workshop: Integrity, Stresses, Energy 건전도 응력 에너지

5:00 Adjourn



2월 21일 목요일 Thursday, February 21, 8:30am – 5:00pm

## High Strain Dynamic Foundation Testing Workshop part 2

- 8:30 CAPWAP Background 동재하시험 해석
- 10:45 Break 휴식
- 11:00 CAPWAP Examples 동재하시험 해석 예
- 12:30 Lunch 점심
- 1:15 iCAP® – Instant Signal Matching 현장 동재하시험 해석
- 1:30 PDA Data Quality – Examples 시험의 품질
- 3:15 Break 휴식
- 3:30 Dynamic Measurement and Analysis Proficiency Test \* 동재하시험 인증시험 (선택)
- 5:00 Adjourn

### Digital/ Hard copy of the Presentation:

- All training material will be available digitally for download prior to the event.

### GRLWEAP Demo License:

- Attendees are encouraged to use their own GRLWEAP USB key license. If you do not have a license or cannot bring the USB key license with you to follow along, a GRLWEAP 10 demo version will be offered and emailed the week before the Workshop.

A Certificate of Participation documenting the number of hours of instruction (PDH) will be provided. Check with your engineering board of registration for their continuing education requirements.

\* At the end of the High Strain Dynamic Testing Workshop participants may take a multiple choice **Dynamic Measurement and Analysis Proficiency Test** which will take less than 1-½ hours to complete. The test will cover the theory of Wave Mechanics, Case Method (PDA) equations, data quality assessment, data interpretation and basic CAPWAP analysis. The test is designed for those with experience in using the Pile Driving Analyzer® system and CAPWAP to perform High Strain Dynamic Foundation Tests. The best preparation for the test is work experience following an initial PDA training. The workshop will refresh the participant's theoretical background and be a reminder of some important points. Those taking the test are advised to study "Appendix A" and "Helpful Hints" of the PDA manual, review some of the EXAMPLE data provided with the PDA, and read the CAPWAP background material. These materials are supplied with PDA purchases. Those without access to the manuals and examples should please contact [softwaresales@pile.com](mailto:softwaresales@pile.com) in advance of the test date. For more information about the Proficiency Test website: [www.PDAProficiencyTest.com](http://www.PDAProficiencyTest.com).

A Certificate of Proficiency in High Strain Dynamic Pile Testing will be awarded to those who pass the test. The Level indicated on the Certificate is dependent on the score achieved on the test. Those who do not pass the test will receive full credit of test registration fee to be applied towards retaking the test at the next opportunity. **\*Please note it will take up to two weeks to receive your exam results\***

**Pile Dynamics Inc issue Certificate of PDA test training free**



### 등록비 Registration Form

메일로 신청 Please fill out and return to [registration2@pile.com](mailto:registration2@pile.com)

장소 The Korean Federation of Science and Technology Societies

한국과학기술회관 신관2층 위치 서울시 강남구 테헤란로 7길 22(역삼동 635-4)

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EMAIL: kofst@kofst.or.kr car parking is expensive, take subway. Stop Kangnam station exit 12

주차비가 고가, 지하철 강남역 하차 12 출구 국기원 방향

이름 Name(s): \_\_\_\_\_

회사명 Organization: \_\_\_\_\_

주소 Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

**Registration Fees (not includes, breakfast, and lunch) 식사비 불포함 , 주변에 식당 많음**

Seminar on **State of Practice for Quality Control of Deep Foundations FREE 무료**

High Strain Dynamic Foundation Testing Workshop **150,000 krw**

선택 Dynamic Measurement and Analysis Proficiency Test (No Discounts **\$225,900 krw**)

*\*If you do not pass the test you are allowed one (1) retake of the test at no additional charge at the next course*

Amount: Program total \$ \_\_\_\_\_

Discount (if applicable) subtract \$ \_\_\_\_\_

**Grand total \$ \_\_\_\_\_**

#### **CREDIT CARD INFORMATION 신용카드 지불**

I am paying by: \_\_\_ VISA \_\_\_ MasterCard \_\_\_ American Express \_\_\_ Check

Name (as on credit card): \_\_\_\_\_

Account no.: \_\_\_\_\_ Expiration date: \_\_\_ / \_\_\_ Verification code: \_\_\_\_\_

Statement Billing Address: \_\_\_\_\_

City \_\_\_\_\_ State / Province \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Signature \_\_\_\_\_

**REFUND POLICY: Cancellations prior to three weeks of event date will receive a 50% refund.**



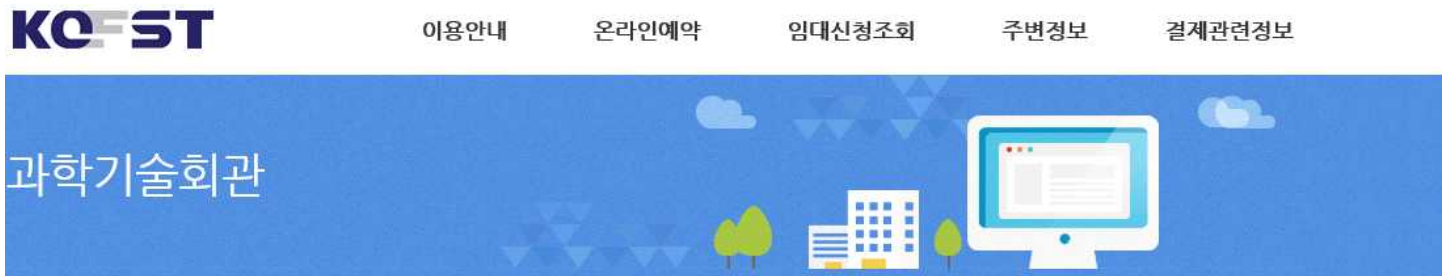
1. search google map

<https://www.google.com/maps/search/Hotels/@37.4992214,127.0303506,16.14z?hl=en>



2. venvue (korean science and technology hall) home page and hotel link  
(Hotels around the hall)

[https://www.kofst.or.kr/general.bit?sys\\_type=0000&menu\\_code=900402](https://www.kofst.or.kr/general.bit?sys_type=0000&menu_code=900402)



과학기술회관 국제회의장  
THE KOREA SCIENCE AND TECHNOLOGY CENTER

회관주변호텔안내

국제회의, 세미나, 심포지움 및 강연회 등을 개최할 수 있는 다양한 규모의 회의장으로 각종 행사진행을 위한 첨단시설을 구비하고 있습니다.

hotel homepage link

- 위치 및 교통편
- 회관주변호텔안내
- 부대시설 및 주변식당

호텔명	전화번호	주소	홈페이지
르메르디앙서울	02-3451-8000	강남구 봉은사로 120	바로가기
노보텔엠버서더강남	02-567-1101	강남구 봉은사로 130	바로가기
그랜드인터컨티넨탈서울	02-555-5656	강남구 테헤란로 521	바로가기
인터컨티넨탈서울코엑스	02-3452-2500	강남구 봉은사로 524	바로가기
오크우드프리미어서울	02-3466-7000	강남구 테헤란로 87길 46	바로가기
임피리얼 플라스	02-3440-8000	강남구 언주로 640	바로가기
베스트웨스턴프리미어 강남	02-6474-2000	강남구 봉은사로 139	바로가기
호텔삼성	02-557-1221	강남구 봉은사로 150	바로가기
포프먼츠웨스턴호텔서울강남	02-2160-8900	강남구 도산대로 203	바로가기