Discover how to understand geotechnical reports and designs with ease.

Understanding Geotechnical Reports and Designs

Carle Place, NY • October 21, 2010 • ID# 386188

Faculty
Moderator:
Hiren J. Shah, P.E.
Mueser Rutledge Consulting Engineers

Andrew J. Ciancia, P.E., LEED® AP
Langan Engineering & Environmental Services, P.C.

Terence P. Holman, Ph.D., P.E.
Moretrench American Corporation

Continuing Education Credit
• AIA/HSW 6.00
• NY Architects 6.0
• NY ENG 6.0

For more detailed CE credit information, visit us at www.lorman.com/ID386188 or contact us at 866-352-9540.

Bring a Colleague – Save $50 –
(Includes Free Manual)
### YOUR COURSE AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 AM – 9:00 AM</td>
<td>Registration</td>
</tr>
</tbody>
</table>
| 9:00 AM – 11:15 AM| **Hiren J. Shah, P.E.**
  - Geotechnical Reports and Designs
    - Types, Scope and Purpose of Reports
    - Types of Subsurface Investigations
    - Common Soil and Rock Types, and Seismic Site Class
    - Recommendations in a Geotechnical Report
    - Selection of Appropriate Foundations and Excavation Support Systems Based on Various Considerations – Design, Construction and Impact on Adjacent Infrastructure
| 11:15 AM – 12:15 PM| Lunch (On Your Own)                                                      |
| 12:15 PM – 2:15 PM | **Terence P. Holman, Ph.D., P.E.**
  - Elements of Geotechnical Reports Related to Specialty Geotechnical Design and Construction
    - Subsurface Investigations
    - Properties of Soil and Rock Pertinent to Specialty Construction
    - Design Procedures
    - Testing and Quality Control
| 2:15 PM – 2:30 PM | Break                                                                    |
| 2:30 PM – 4:30 PM | **Andrew J. Ciancia, P.E., LEED® AP**
  - Preparing Geotechnical Reports to Meet the New Requirements of the New York City Department of Buildings
    - 2008 Building Code Requirements
    - Soils and Foundations (Chapter 18)
    - Subsurface Investigation
    - Foundations
    - Safeguards During Construction or Demolition (Chapter 33)
    - Excavation
    - Protection of Adjacent Property
    - Special Inspections and TR Forms
    - Transit Authority Requirements
    - Test Borings
    - Adjacent Excavations and Foundations
    - Stalled Sites

### YOUR SEMINAR LEADERS

**Andrew J. Ciancia, P.E., LEED® AP**
- Senior principal and member of the board of directors with Langan Engineering & Environmental Services, P.C.
- Formerly with Woodward-Clyde Consultants for 23 years
- Licensed professional engineer in nine states
- Adjunct professor at New York University teaching engineering design to undergraduate students
- President of the American Council of Engineering Companies of New York in 2004 to 2005
- Part of the mayor's task force to help rewrite the foundations section of the 2008 New York City Building Code and special inspection requirements
- Member of the MOLES DFI, ASCE and Geo-Institute
- B.S. and M.S. degrees in civil engineering, Rutgers University

**Hiren J. Shah, P.E.**
- Senior associate and geotechnical engineer with Mueser Rutledge Consulting Engineers with more than 20 years of experience
- Participated in a broad range of projects for municipal and public facilities, residential and commercial structures, utilities and transportation
- Supervised geotechnical investigations and prepared geotechnical reports and designs for various structures and facilities
- Specializes in the definition of subsurface conditions, and soil and rock design properties, design and construction inspection of various deep foundations, mat foundations, mechanically stabilized earth systems, directional drilling, microtunneling and other trenchless construction techniques
- Involved in subsurface construction claims analyses
- Written and presented papers for various technical conferences/seminars
- Member of the American Society of Civil Engineers and the Geo-Institute
- Chairperson of the ASCE Metropolitan Section Geotechnical Group for 2006 to 2007
- B.E. degree in civil engineering, VJTI, University of Bombay, India; M.S. degree in geotechnical engineering, University of Maine
- Licensed professional engineer in New York and Pennsylvania
- Can be contacted at hshah@mrce.com

**Terence P. Holman, Ph.D., P.E.**
- Senior engineer in the Geotec Division of Moretrench American Corporation
- More than 15 years of experience in geotechnical engineering and analysis, design and construction, and quality control
- Involved in consulting and geotechnical construction for such projects as the Route 895 Connector (Pochahontas Parkway) in Richmond, Virginia; NYCDEP City Water Tunnel No. 3 in Manhattan; NYCDEP Wards Island SHARON Facility in Manhattan; and MIT Sloan School in Cambridge, Massachusetts
- Interests in the specialty geotechnical construction field include soil-structure interaction, load transfer response, and elastic/inelastic analysis and performance
- Involved in engineering, design/analysis, instrumentation, estimating and construction of specialty geotechnical systems
- Published and presented multiple technical papers at domestic and international conferences and in journals on a variety of topics in geotechnical engineering and construction
- Member of ASCE, the Geo-Institute, the ISSMGE, the Deep Foundations Institute, the Association of Engineering Geologists and the ADSC
- Chair of the ASCE Metropolitan Section Geotechnical Group in 2007 to 2008, chair of the DFI Tiebacks and Soil Nailing Committee, and member of the joint DFI-ADSC Micropile Committee
- Licensed professional engineer in four states
- B.S. and M.S. degrees in civil engineering, Drexel University in Philadelphia, Pennsylvania; Ph.D. degree in civil engineering (geotechnics), Northwestern University in Evanston, Illinois

CAN BE CONTACTED AT hshah@mrce.com
Discover how to understand geotechnical reports and designs with ease.

Subsurface conditions and geotechnical recommendations can significantly impact a project’s financial success, beginning from site selection and project go/no-go decisions through completion of foundation and site construction. You need to understand geotechnical reports in order to make decisions regarding foundation and site construction methods and costs.

Attend this highly informative seminar and get a road map to understanding the geotechnical process as it pertains to site selection, site evaluation and site development. Don’t wait – register now to make sure you stay on the cutting edge of your field.

Benefits for You

• Learn the properties of soil and rock pertinent to specialty construction
• Overcome the most common difficulties in understanding geotechnical reports and designs
• Tips on selecting suitable foundations
• Determine whether the proposed scope is adequate for your project

Seminar Tuition (includes free manual with attendance)

☐ Yes! I would like to attend. ($409 per person)
☐ Yes! I would like to bring a colleague. ($359 per each additional registrant)
☐ Yes! I would like the Best Value discount. ($508 per package [$409] plus CD recording [$99*] of this seminar)

I am unable to attend but I am interested in:
☐ $429 CD/manual package*
☐ $149 manual only*

Amount Enclosed

$ __________ Tuition Subtotal
$ __________ Shipping & Handling ($7.95 first item, $1.00 each additional)
$ __________ Sales Tax (If tax-exempt, please include your certificate.)
$ __________ TOTAL

*Add $7.95 shipping & handling plus applicable sales tax to product orders. Please allow four to six weeks after the date of the seminar for delivery.

How Do I Register?

EMAIL: customerservice@lorman.com
WEBSITE: www.lorman.com/ID386188
TELEPHONE: 866-352-9539
FAX: 715-833-3953
MAIL: Mail this form with payment information to:
Lorman Education Services
Dept. 5382, P.O. Box 2933
Milwaukee, WI 53201-2933

Register now
www.lorman.com/ID386188
Understanding Geotechnical Reports and Designs

Carle Place, NY • October 21, 2010 • ID# 386188

FREE Manual with attendance

Take $50 OFF when you register a second attendee

Learning Objectives
- You will be able to review subsurface investigations.
- You will be able to describe elements of geotechnical reports related to specialty geotechnical design and construction.
- You will be able to explain how to prepare geotechnical reports to meet the new requirements of the NYC Department of Buildings.
- You will be able to identify the health, safety and welfare aspects of understanding geotechnical reports and designs in New York.

For more detailed CE credit information, visit us at www.lorman.com/ID386188 or contact us at 866-352-9540.