

Course Description and Lecturer's bio winter 2012

CE-188 Analyzing the Effects of Various Types of Structural Loads (Part #1)

This seminar will start with examining the historical development of Design Loads through various Codes and ASCE-7 document. It will discuss any special aspects of design loads we take for granted, including but not limited to, dead loads, live loads, snow and thermal loads, wind loads, soil lateral loads, rain loads, flood loads, earthquake loads, miscellaneous and special loads. There will be additional discussion on less frequently used loads in day to day small structures or beam/column design, for example, Soil Lateral Loads, Earthquake Loads and Special Loads..

Date:	Wednesday, March 2, 2012
Time:	5:30pm -9:30pm
Location:	DC 37, New York, NY
Lecturer:	Abbas Shah, P.E.(C.E., M.E.), LMP, LFSC, R.A. AIA

CE-189 Analyzing the Effects of Various Types of Structural Loads (Part #2)

This Seminar will build upon Basic Loads Seminar by analyzing various methods of load distribution on structures, approximate methods for load distributions, analyzing point loads versus distributed loads for the same loading conditions. It would also review historical developments of various load combinations and how some of these have evolved over a period of time. It will also analyze load combinations considered mandated and absolute minimum required by various codes for the safe analysis of structures. Review of specially generated loads and their combinations will also be discussed.

Date:	Wednesday, March 21, 2012
Time:	5:30pm- 9:30pm
Location:	DC 37, New York, NY
Lecturer:	Abbas Shah, P.E.(C.E., M.E.), LMP, LFSC, R.A. AIA

Abbas Shah, P.E.(C.E., M.E.), LMP, LFSC, R.A. AIA

Mr. Shah Bachelor of Science in Civil Engineering and has professional licenses in Civil and Mechanical Engineering as well as being a Registered Architect. He has worked in various capacities as Assistant Architect, Assistant Surveyor, Assistant Structural Engineer and a Marine Engineer. Recently he is the Principle Engineer of his own Consulting and Construction Companies designing multistory buildings, renovations, and working on commercial and residential assignments. Most of this work has required extensive 3D computer design and drafting. He has also been employed in the Petrochemical Industry, and at Seabrook Nuclear Power Plant in New Hampshire as an Architect and as a Structural and Mechanical Engineer. Abbas is also a New York City licensed Master Fire Suppression contractor.

CE-186 Ethics for Practicing Engineers (Part #1)

This seminar will review ethical obligations of licensees as outlined by the New York State Department of Education and licensure. Examples will be given from recent actions by the department against individuals along with analysis of where the licensee went wrong, and what could have been done to lessen risk and mitigate failings. Differentiations between mis-practice, malpractice and non-feasance will be discussed as well as methods to avoid each. A review of administrative actions against licensees will be undertaken so that participants will know how to respond to achieve the best results. A discussion of record keeping and proper practices will also afford participants an opportunity to improve procedures and hopefully better respond to inquiry if any.

Date:	Wednesday, April 4, 2012
Time:	5:30pm – 9:30pm
Location:	DC 37, New York, NY
Lecturer:	Gil V. Perez, BME, JD, PE, Lic. Plumber, Lic. Stationary Engineer

Gil V. Perez, BME, JD, PE, Lic. Plumber, Lic. Stationary Engineer

Mr. Gil V. Perez is a practicing attorney and professional engineer with a degree in Mechanical Engineering From Pratt Institute in Brooklyn and JD from Brooklyn Law School. Mr. Perez worked for the City of New York as an Assistant Mechanical Engineer for 15 years at the Department of Environmental Protection, Board of Education and NYCHA where he specialized in Sanitary Engineering and Construction Management. He currently is in private practice specializing in Administrative Law and Construction Litigation, as well as matters of licensure, Corporation formation and Real Property. Mr. Perez is also a licensed Plumber and Licensed High Pressure Boiler Operator, and has consulted in various aspects of building construction. In law school, Mr. Perez was a student member of the Association of the Bar of The City of New York Ethics Committee, and participated in the work of the committee for three years. He continues to follow closely ethical rulings within the various administrative bodies affecting engineers and licensed professionals. In addition, he has volunteered with the Military Law Committee of the Brooklyn Bar Association and is a member of both the Association of the Bar of the City of New York and the Brooklyn Bar Association.

CE-184 Principles and Design of Concrete and Clay Masonry

The objective of the course is to provide Design and Construction inspection parameters and best practices for concrete and clay masonry so that these functions can be performed with increased effectiveness

The course addresses unforeseen or uncontrolled expansion, contraction or gross movement in the horizontal or vertical directions both in and out of plane including control joint, expansion joint and movement joint locations.

Also covered is cavity wall construction, moisture control, lintels and shelf angles, mortar types, hot and cold weather best practices, soft joints, flashing, hybrid masonry, efflorescence, water repellants and tests, wall and floor tile, terrazzo and autoclaved aerated concrete units.

Date:	Wednesday, April 18, 2012
Time:	5:30pm – 9:30pm
Location:	DC 37, New York, NY
Lecturer:	William Rodwick, BSCE, MPA, P.E.

CE-185 Principles and Design of Stone Masonry

The following course covers modern thin veneer stone masonry including the following:

- Facade soiling and prevention
- Moisture and dampness control
- Stone Masonry types (ashlars, rubble, etc.)
- Masonry anchors
- Mortars
- Stone types
- Consideration when choosing the stone
- Creative options
- Face types
- Manufactured Stone
- Chip repair
- Micro-thin and natural thin panels
- Terra Cotta panels

Date:	Wednesday, May 2, 2012
Time:	5:30-9:30pm
Location:	DC 37, New York, NY
Lecturer:	William Rodwick, BSCE, MPA, P.E.

William Rodwick, BSCE, MPA, P.E.

Mr Rodwick has worked over 24 years with NYC Transit and 25 years with the Army Corps of Engineers. He is a licensed PE in NYS , has a BSCE & MPA.

His domestic & international experience ranges from soils and foundation design to construction management, Chief of Estimating, Chief of Design Mgt and Asst Chief of Engineering Division while with the Army Corps. At NYCT, he worked as Senior Construction Manager, Chief of Quality & Safety Mgt & Asst VP Engineering & Design. He has developed and presented over 20 different professional and technical courses to thousands of professionals. Presently, he is serving as President of the Practicing Institute of Engineering

CE-187 Ethics for Practicing Engineers (Part #2)

This seminar will review ethical obligations of licensees with an emphasis on other administrative bodies and their internal Licensing actions, and particularly actions against Professional Engineers and architects. A review of changes in Department of Building Requirements and new code changes in documentation and job filing procedures with the City of New York will be undertaken. Requirements of other agencies including the Fire Department and DEP will be discussed. A review of Federal Regulations as they relate to the practice of Engineering and Architecture as well as a discussion of contracting with Federal and State agencies will be undertaken. Discussion of legal liability to clients, statutes of limitation, novation and the drafting of contracts and retainer agreements.

Date:	Wednesday, May 16, 2012
Time:	5:30pm – 9:30pm
Location:	DC 37, New York, NY
Lecturer:	Gil V. Perez, BME, JD, PE, Lic. Plumber, Lic. Stationary Engineer

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Mr. Gil V. Perez is a practicing attorney and professional engineer with a degree in Mechanical Engineering From Pratt Institute in Brooklyn and JD from Brooklyn Law School. Mr. Perez worked for the City of New York as an Assistant Mechanical Engineer for 15 years at the Department of Environmental Protection, Board of Education and NYCHA where he specialized in Sanitary Engineering and Construction Management. He currently is in private practice specializing in Administrative Law and Construction Litigation, as well as matters of licensure, Corporation formation and Real Property. Mr. Perez is also a licensed Plumber and Licensed High Pressure Boiler Operator, and has consulted in various aspects of building construction. In law school, Mr. Perez was a student member of the Association of the Bar of The City of New York Ethics Committee, and participated in the work of the committee for three years. He continues to follow closely ethical rulings within the various administrative bodies affecting engineers and licensed professionals. In addition, he has volunteered with the Military Law Committee of the Brooklyn Bar Association and is a member of both the Association of the Bar of the City of New York and the Brooklyn Bar Association.

ME-146 Engineering Principles of Modern Technologies (Part #1)

This seminar examines the engineering fundamentals behind everyday modern technologies. Each technology is presented along with the underlying scientific and engineering principles that support it. Specific technologies discussed in this course include the Global Positioning System (GPS), Vehicle Airbags, Medical MRI imaging, Noise Cancellation and Fly-By-Wire Aircraft.

Date:	Wednesday, June 13, 2012
Time:	5:30-9:30pm
Location:	DC 37, New York, NY
Lecturer:	Neil Weisenfeld, B.S.E.E., P.E.

ME-147 Engineering Principles of Modern Technologies (Part #2)

This seminar examines the engineering fundamentals behind everyday modern technologies. Each technology is presented along with the underlying scientific and engineering principles that support it. Specific technologies discussed in this course include the Nano-Technology, Instrument Landing Systems, The Internet, Bar Code Scanners and DNA sequencing.

Date:	Wednesday, June 20, 2012
Time:	5:30-9:30pm
Location:	DC 37, New York, NY
Lecturer:	Neil Weisenfeld, B.S.E.E., P.E.

Neil Weisenfeld, B.S.E.E., P.E.

Neil Weisenfeld is a professional engineer with a bachelor's degree in Electrical Engineering. He has 23 years of experience in the power industry and is currently a department manager in Con Edison's Distribution Engineering department. He has worked in the areas of Power Generation, System Operation, Engineering and Energy Services. He has served on the Executive Committee of the Power Engineering Society of IEEE for over 10 years, is a senior member of the IEEE and holds four U.S. patents.