

Cristian Neagu

Research engineer / Technical University of Civil Engineering - Faculty
of Civil Engineering
Bucharest, Romania

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EDUCATION

Ph.D .

Technical University of Civil Engineering Bucharest - Faculty of Civil Engineering,
Romania
2011 - 2015

Thesis title: „Local soil conditions and nonlinear soil response influence on design seismic action”

Master Degree - Geotechnical Engineering and Foundations

Technical University of Civil Engineering Bucharest - Faculty of Civil Engineering
2002 - 2003

Bachelor's Degree in Civil Engineering

Technical University of Civil Engineering Bucharest - Faculty of Civil Engineering
1997 - 2002

Soil Testing and Investigation. Earthquake Response. Zonation

Tokyo, Tsukuba, Japan
2005 - 2006

Training course - Diploma awarded
Oct. 2005 - Jan. 2006 - Tokyo Soil Research Co.Ltd. Tokyo
Jan. 2006 - March. 2006 - Building Research Institute, Tsukuba

"Third Country Training Program on Earthquake Engineering"

Istanbul Technical University, Istanbul, Turkey
2004 - 2004

Diploma awarded

WORK EXPERIENCE

Research engineer / Technical University of Civil Engineering Bucharest - Faculty of Civil Engineering

Sep 2010 - Current

Involved in different research projects aiming seismic risk and hazard evaluation with national or European funding (DACEEA, BIGSEES, RO-RISK), ambient vibration measurements for assessment of dynamic characteristics for civil buildings, industrial chimneys and dams, wind and snow load estimation for design of industrial buildings;

Civil engineer / National Center for Seismic Risk Reduction

Jul 2003 - Aug 2010

- Static triaxial tests (UU, CU, CD) for evaluation of internal friction angle and cohesion of soils;
- Dynamic triaxial tests for evaluation of soil dynamic parameters (Young's modulus, shear modulus, axial strain, shear strain) used for soil - structure interaction assessment;
- Liquefaction test for liquefaction potential estimation of soils;
- Bender element test - laboratory test for estimation of shear wave velocity V_s ;
- Supervising drilling, sampling and Standard Penetration Test (SPT) and building up boring logs and reports;
- Conducting Cone Penetration Test (CPT) using Geomil equipment and building up tests report;
- Plate test loading for estimation of deformations capacity of soils;
- P-S Logging Velocity Measurement - measurement of seismic P and S wave velocity using a triaxial borehole sensor and data acquisition system used for building-up seismic velocity profile for a site;
- Ambient vibration measurement (microtremor array measurement);
- Studies on seismic risk assessment for new high rise buildings;
- Preparing articles, posters and presentations for national and international symposiums and conferences.

Civil engineer / Central Laboratory CCF

Apr 2003 - Jul 2003

- Laboratory tests on soils (grain size distribution, humidity, plasticity limit);
- In situ tests (plate test, compaction test);
- Building up reports.

COMPUTER SKILLS

- Microsoft Office / Open Office;
- AutoCAD
- MathCAD
- ETABS / SAP
- EERA / NERA
- Global Mapper
- CorelDRAW
- Advanced networking and hardware knowledge
- Average Linux OS knowledge

LANGUAGES

Romanian - native

English - fluent in speaking and writing

French - beginner level

SELF EVALUATION

As a graduated civil engineer, with a master degree in geotechnical engineer and foundation, I look forward to getting involved in projects where I can use extensively my skills and competencies, both theoretical and practical, in a dynamic and challenging field of activity that can also provide opportunities and challenges to further enhance my expertise and carrier.

Being an active person by nature, but analytical too, I feel I have the ability to understand the requirements and responsibilities of projects I get involved in and being driven by engineering technical spirit I always look forward to solutions.

I like challenges and I consider myself being an open-minded person, pro-active and results oriented, while having a friendly and flexible personality.

I own a driving license since 1998 and all my records are clean.

PUBLISHED PAPERS

Arion C., Neagu C., 2006, Laboratory investigation for estimation of seismic response of the ground, 1st ECEES - First European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland

Arion C., Calarasu E., Neagu C., Tamura M., 2007, Geotechnical in situ investigation used for seismic design of buildings, ISSRR2007 International Symposium on Seismic Risk Reduction. The JICA Technical Cooperation Project in Romania

Hayashi K., Tamura M., Neagu C., Kituchi Y., Katsuaki A., Ito Y., 2007, Seismic Investigations in Residential Area Liquefied by Mid Niigata Prefecture Earthquake, 20th Annual Meeting SAGEEP Symposium on the Application of Geophysics to Engineering and Environmental Problems, April 1-5, 2007, Denver, Colorado

Neagu C., Arion C. (2012). Dynamic laboratory investigation for soil seismic response, paper 2051. In 15th World Conference of Earthquake Engineering, 24-28 September 2012, Lisbon, Portugal. CD-ROM

Erduran, E., Lang D., Lindholm, C., Dragos, T., Balan, S., Ionescu C., Aldea, A., Vcreanu, R., Neagu, C. (2012). Real-Time Earthquake Damage Assessment in the Romanian-Bulgarian Border Region, paper 3945. In 15th World Conference of Earthquake Engineering, 24-28 September 2012, Lisbon, Portugal

Aldea A., Neagu C., Udrea A. (2012). Site response assessment using ambient vibrations and borehole-seismic records, paper 1041. In 15th World Conference of Earthquake Engineering, 24-28 September 2012, Lisbon, Portugal

Vcreanu R., Lungu D., Aldea A., Arion C., Neagu C., Gaman F., Petrescu F., Aldea M. (2013). Expected direct seismic losses assessment using GIS. Case study for Iai Municipality, Technical University of Civil Engineering Bucharest - Scientific Journal - Series: Mathematical Modeling in Civil Engineering, No. 3, 2013, ISSN 2066-6926, p. 12-18

Arion C., Neagu C., (2013). Laboratory investigation for estimation the seismic response of ground, Bulletin of the International Institute of Seismology and Earthquake Engineering, Vol. 47, pp. 149-156, Editor: Ministry of Construction, Building Research Institute, Japan.

Vcreanu, R., Pavel, F., Lungu, D., Iancovici, M., Demetriu, S., Aldea, A., Arion, C., Neagu, C. (2013). Uniform hazard spectra for cities in Romania. Proceedings of the International Conference on Earthquake Engineering SE-50 EEE, Skopje, Macedonia, Paper no. 164.

Vcreanu, R., Lungu, D., Mrmureanu, G., Cioflan, C., Aldea, A., Arion, C., Neagu, C., Demetriu, S., Pavel, F. (2013). Statistics of seismicity for Vrancea subcrustal source. Proceedings of the Int. Conf. on Earthquake Engineering SE-50 EEE, Skopje, Macedonia, Paper no. 138.

Pavel, F., Vcreanu, R., Arion, C., Neagu, C. (2013). Analysis of ground motions recorded in Bucharest during recent Vrancea earthquakes. Vienna Congress on Recent Advances in

Earthquake Engineering and Structural Dynamics 2013 (VEESD 2013), Austria, Paper no. 180.

Pavel, F., Vcreanu, R., Neagu, C., Pricopie, A. (2014). Bi-normalized response spectra and seismic intensity in Bucharest for 1986 and 1990 Vrancea seismic events. *Journal of Earthquake Engineering and Engineering Vibration*, Volume 13, Issue 1, pp 125-135, DOI: 10.1007/s11803-014-0217-1

Vcreanu, R., Demetriu, D., Lungu, D., Pavel, F., Arion, C., Iancovici, M., Aldea, A., C., Neagu, C. (2014). Empirical ground motion model for Vrancea intermediate-depth seismic source. *Earthquakes and Structures, An International Journal*, Volume 6, Number 2, pp 141-161, DOI: 10.12989/eas.2014.6.2.127

Pavel, F., Vcreanu, R., Arion, C., Neagu, C. (2014). On the variability of strong ground motions recorded from Vrancea earthquakes. *Earthquakes and Structures, An International Journal*, Volume 6, Number 1, pp 1-18, DOI: 10.12989/eas.2014.6.1.001

Vcreanu, R., Mrmureanu, Gh., Pavel, F., Neagu, C., Cioflan, C.A., Aldea, A. (2014). Analysis of soil factor S using strong ground motions from Vrancea subcrustal seismic source. *Romanian Reports in Physics*, Volume 66, Number 3

Vcreanu, R., Radulian, M., Iancovici, M., Pavel, F., Neagu, C. (2014). Fore-Arc and Back-Arc Ground Motion Prediction Model for Vrancea Intermediate-Depth Seismic Source. *Proceedings of the Second European Conference on Earthquake Engineering and Seismology (2ECEES)*, Istanbul, August 24-29, 2014, Paper no. 484

Neagu, C., Lungu, D., Arion, C. (2015). Major historical earthquakes in Romania and contemporary seismic risk management activities. *7th International Conference on Seismology and Earthquake Engineering*, Teheran, Iran, 18-21 May 2015

Arion C., Calarasu E., Neagu C. (2015). Evaluation of Bucharest soil liquefaction potential. In: *Mathematical Modeling in Civil Engineering*, Vol. 11, No. 1, March 2015 , pp. 5-12.

Vcreanu, R., Radulian, M., Iancovici, M., Pavel, F., Neagu, C. (2015). Fore-arc and back-arc ground motion prediction model for Vrancea intermediate depth seismic source. *Journal of Earthquake Engineering*, 19:3, 535-562, DOI: 10.1080/13632469.2014.990653