CIRRICULUM VITAE

of

Dr. Nikolaos-Panagiotis Chatzigogos Ph.D, Dept. of Geology, AUTH, MSc DIC in Engineering Geology, Imperial College, Ptychio, Dept. of Geology, AUTH.

A. Personal Information

- G. Souri 6, 55134, Kalamaria, Thessaloniki (Greece)
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B. Education

1996-2001: Aristotle University of Thessaloniki, Dept. of Geology.

2001: Ptychio, Dept. of Geology, AUTH. Engineering and Environmental Geology.

2001-2002: Imperial College, University of London. Dept. of Civil Engineering, Postgraduate studies in Engineering Geology.

2002: MSc DIC in Engineering Geology. Title of Thesis:

"Geotechnical properties of fills. Thessaloniki's historical fill".

2015: Ph.D, Dept. of Geology, AUTH, in Geotechnical Engineering Ph.D Thesis:

«Contribution in the investigation of failure mechanisms in residual soils»

C. Other Languages

English (Proficiency Cambridge). German (Zertifikat Goethe-Institut).

D. Use of Engineering Geology and Geotechnical Engineering Software

Geotechnical Software: GEO-SLOPE, PcStabl, Rockworks.

Rocscience Suite: Dips, Phase2, RocFall, RocPlane, RocSupport, Slide, Unwedge,

Settle 3D.

Geostru Suite: MP (Pile), LoadCap, Slope, GDW (Gabbion Wall).

Maccaferri Suite: MacStars

G. I. S.: MapInfo Professional 5.0.

E. Scientific skills

- Engineering Geology-Geotechnical parameters in Construction works (Road construction, underground construction, Dams, Urban Development)
- Physical and mechanical parameters of geological formations
- Physical and mechanical parameters of soil formations
- Geotechnical behaviour of soils in unsaturated conditions
- Slope stability analysis in soil and rock formations
- Geotechnical behaviour of residual soils and weathered rocks
- Geotechnical behaviour of engineered and non engineered fills
- Field geological mapping
- Soil/Rock Mechanics Laboratory and Field Testing

Reviewer in international journals:

- Bulletin of Engineering Geology and the Environment, Springer.
- Bulletin of Earthquake Engineering, Springer.
- Bulletin of the Geological Society of Greece

F. Publications

STIMARATZIS, T., CHRISTARAS, B., DIMOPOULOS, G., KILIAS, A., CHATZIAGGELOU, M., **CHATZIGOGOS, N**., (2004) "Stability analysis of a high cut slope along Egnatia Highway in Asprovalta, Greece". Proc. of 10th Int. Conf. of Hellenic Geological Society. Vol. 4, pp. 1833-1842.

CHRISTARAS, B., CHATZIGOGOS, T., DIMITRIOU, A., **CHATZIGOGOS**, **N.**, MAKEDON, T. VOGIATZIS, D., FILIPPIDIS, S., (2004). "Stability of Polifimos cave in Maroneia, Thrace". Proc. of 10th Int. Conf. of Hellenic Geological Society. Vol. 4, pp. 1892-1901.

CHRISTARAS B., CHATZIGOGOS TH., DIMITRIOU A., CHATZIGOGOS N., MAKEDON TH., VOGIATZIS D., FILIPPIDIS S., DOTSIKA EL., (2006). «Methodology for supporting the under touristic development Poliphimos cave in Maronia, Thrace, Greece». Proceedings of the 7th European Conference «SAUVEUR», Volume 2-Posters, 31st May 3rd June 2006, Prague, Czech Republic.

CHATZIGOGOS, N., MAKEDON, T. TSOTSOS, S., CHRISTARAS, B., (2006). "Implementation of a ground investigation strategy on urban fills". 10th IAEG Congress, Paper n. 688, Nottingham, United Kingdom, 6-10 September 2006.

- **CHATZIGOGOS, N.**, MAKEDON, T. TSOTSOS, S., (2007). "The mechanical behavior of gneisseous rocks and selection of strength parameters for stability analysis of excavated slopes". 1st SLGS International Conference on Soil and Rock Engineering, Paper n. 2560, Colombo, Sri Lanka, 6-11 August 2007.
- MAKEDON Th., **CHATZIGOGOS P.N,** SPANDOS S. (2009). "The urban fill of Thessaloniki and its engineering response to an earthquake" Bull. of Engineering Geology and the Environment, Vol. 104 (2009), pp. 167-180, Elsevier.
- **CHATZIGOGOS, N.,** MAKEDON, T., (2008). "The influence of residual soil products in the stability of highly weathered metamorphic rock slopes". Article N.1907. 3rd Pan-Hellenic Conf. in Earthquake Engineering and Engineering Seismology, Athens, 5-7 November 2008.
- MAKEDON Th., **CHATZIGOGOS N.**, VOGIATZIS D., DIMOPOULOS G., KARAMOUZIS D. (2008). "The effect of geology on the suitability of the Olynthios river damsite, Northern Greece". Bull. of Engineering Geology and the Environment, DOI 10.1007/s10064-009-0197-y
- **CHATZIGOGOS, N.,** MAKEDON, T., DIMOPOULOS, G., TSOTSOS, S., CHRISTARAS, B., (2009) "Laboratory investigation of shear strength of residual soils using the axis-translation technique". 6th Pan-Hellenic Conf.in Geotechnical and Geo-Environmental Engineering, Volos 29-1/10 2010.
- MAKEDON Th., **CHATZIGOGOS N.** (2012). "Failure Mechanism of Overhanging Slopes in sedimentary Rocks with Dissimilar Mechanical Properties" Bull. of Engineering Geology and the Environment, Vol. 71, Issue 4 (2012), pp. 703-708, Elsevier. DOI 10.1007/s10064-012-0441-8.
- VARGEMEZIS G., DIAMANTI N., FIKOS I., STAMBOLIDIS A., MAKEDON Th., **CHATZIGOGOS N**. (2013) "Ground penetrating radar and electrical resistivity tomography for locating buried building foundations: A case study in the city centre of Thessaloniki, Greece". Bulletin of Geological Society of Greece, vol. XLVII 2013, Proc. of the 13th Int. Congress, Chania, Sept. 2013.
- **CHATZIGOGOS, N.,** MAKEDON, T., TSINTARIS, G., TSOTSOS, S., CHRISTARAS, B., (2014) "Hydroconsolidation phenomena of the anthropogenic fill of the historical center of Thessaloniki, Greece". 7th Pan-Hellenic Conf.in Geotechnical and Geo-Environmental Engineering, Athens 5-7/11 2014.

AMPATZI G., **CHATZIGOGOS N**., MAKEDON M., PAPATHANASSIOU G. & MARINOS V. (2016) "Application of terrestrial laser scanning (lidar) in rock slope stability. An example from Northern Greece". 14th International Conference of the Geological Society of Greece, At Thessaloniki, Greece, Volume: L.

CHATZIGOGOS N., MAKEDON M., TSINTARIS G., TSOTSOS S., CHRISTARAS B. (2016) "Estimation of the Hydroconsolidation Susceptibility of the Anthropogenic Fill of the Historical Center of Thessaloniki, Greece". International Journal of Geoengineering Case Histories. Special Issue on Geoengineering Case Histories in Greece & Cyprus, Vol. 4, Issue 1, Paper ID: IJGCH_4_1_4.

G. Funded Research Programms

- A.U.Th. Research program, no: 21721. "Geological-Geotechnical consulting along Egnatia Highway construction works". Duration: 6 months (15/01/2004-9/6/2004).
- A.U.Th. Research program, no: 21087.«Πρόγραμμα σεισμικής αποκατάστασης Μαρμαρά». Duration: 1 month (01/02/2005-28/02/2005).
- A.U.Th. Research program, no: 78095. "Evaluation of Natural Hazards: NARAS". Duration: 2 months (01/08/2006-31/08/2006, 01/10/2006-31/10/2006).
- A.U.Th. Research program, no: 82903."Supplementary investigation of water resources development works in Chalkidiki, Greece: The Dam of Olynthios river". Duration: 2 months (05/11/2007-05/01/2008).
- A.U.Th. Research program, no: 21478. "Reformation of undergraduate curriculum, Dept. of Geology». Duration: 13 months (01/07/2007-31/08/2008).
- A.U.Th. Research program, no: 84560."Soil mechanics laboratory investigation program. Duration: 6 months (07/07/2009-09/12/2009.
- A.U.Th. Research program, no: 84582." Unit of innovation and entrepreneurship (MKE) of A.U.Th.". Duration: 8 months (01/07/2011-31/12/2011), (1/3/2012-30/6/2012)
- A.U.Th. Research program, no: 86938. "Geotechnical investigation- IGI Poseidon". Duration: (02/12/2011-9/12/2011), (05/01/2012-25/01/2012), (29/3/2012-5/4/2012).

H. Teaching Experience

2002 - 2015: Member of the Laboratory of Engineering Geology and Hydrogeology, Dept. of Geology, A.U.Th. Lecturer of the Laboratory Exercises in Soil Mechanics-Rock Mechanics.

2013-2015: Member of the Laboratory of Engineering Geology and Hydrogeology, Dept. of Geology, A.U.Th. Lecturer of the Laboratory Exercises in Engineering Geology.

2015-2020: Lecturer of the postgraduate program (MSc) of Dept. of Geology A.U.Th., entitled "Applied and Environmental Geology" of the following courses:

GGTM106 Engineering Geology of Construction Works

GGTM105 Engineering Geology of Soils and Rocks

GGTM201 Basic principles of Soil Mechanics

GGTM203 Laboratory and Field Geotechnical Testing

2018-2021: Lecturer of the undergraduate program of Dept. of Geology A.U.Th., of the following courses:

GGG875E Drilling Techniques

2007-: Supervisor-participant of the following undergraduate theses:

Spandos, S., 2007: "Planning and implementation of a geotechnical investigation in the historical fill of Thessaloniki, Greece".

Zachos, Th., 2008: "Laboratory shear strength tests from slope samples along Egnatia Highway, Asprovalta, Greece".

KAzili, M., 2010: "Investigation of the physical and mechanical parameters of residual soils in K. Nevrokopi, Drama, Greece".

Nikolaidou, E., 2012: "Geotechnical investigation of fine grained soils in Komotini, Greece".

Tsintaris, G., 2012: "Laboratory investigation of the adequacy of soil geomaterials for the construction of homogeneous soil dams".

Papatsikourakis, D. 2017: "Investigation of foundation conditions in Geni Tzami, Edessa"

2011- : Supervisor-participant of the following postgraduate theses (MSc theses) of Dept. of Geology, A.U.Th.:

Palatos, E., 2011: "Engineering geological investigation along the under construction national road Alistrati-Drama, Lefkothea section".

Koios, C., 2015: "Evaluation of the geological adequacy of geological formations along the natural gas pipeline in Perdika, Ipeiros".

Vlachos, V., 2015: "Laboratory simulation of shear strength parameters of a sandy soil in unsaturated conditions".

Abatzi, G. 2015: "Investigation of the failure mechanisms of slopes along the coastal zone of H.M. Pantokratoros, Mount Athos, using LIDAR digital scanning".

Sarantopoulou, M. 2017: "Landslide phenomena in residual soils in Ano Skotina, Pieria.

Goula, E. 2017: "Engineering Geological investigation of failure mechanisms in a residual soil slope in Agion Oros and proposal of remedial measures"

I. Professional Experience

10/2000 - 3/2001: **Employee of GEOGNOSI S.A.** Geotechnical Engineering Consultants (E' class designer grade in category 21, field of geotechnical engineering) Geognosi S.A., Thessaloniki (Greece): Field and laboratory geotechnical investigation for road construction of Egnatia Odos.

01/2004 - : Free Lancer, Engineering Geology and Geotechnical Engineering Consultant. Individual B' class designer, category 21 (Geotechnical) and A' class designer, category 20 (Geology). Coordination and elaboration of more than 80 major geotechnical investigations, interpretation and geotechnical designs, mainly in the field of road and building construction works, during the last 17 years.

05/2010- 12/2012: Co-Founder and General Director of **TRIGER Geologists-Consultants.**

02/2014 - 12/2014: Collaborator of the company «Joint venture URS INFRASTRUCTURE AND ENVIRONMENT UK LTD - OMEK A.E., IONIAN HIGHWAY".Independent Engineer (IE) design checking of construction works in IONIAN highway-PATHE.

01/2017- : **General Director of Proentasi Geotechnical**. Head of Department of Geotechnical and Geological studies of Proentasi

03/2019- : Co-Founder of **GEO O.E.**, company of geotechnical investigations and applications

10/2019 - : Collaborator of the company "ILF Consulting Engineers Georgia LLC (I/C 404536542)". Consulting services for preparation of Detailed Engineering Design of Earthworks for the main alignment, interchanges and secondary roads that is a part of Consulting Services for the Detailed Design for the Upgrading of Tbilisi-Sagarejo (Section 1) and Sagarejo-Bakutsikhe (Section 2) Road (EWHIP-4/CS/QCBS-06)

J. Elaborated Geological and Geotechnical studies (contractor designer)

- Geotechnical Study (2021): Geotechnical research and study on the establishment of a rice drying and storage complex in N. Malgara, Thessaloniki.
- Geotechnical Study (2021): Geotechnical research-study on the establishment of a biogas plant in Kefalovrysos Trikala.
- Geotechnical Study (2021):Geotechnical research-study for the establishment of an electricity plant using biogas on a land in Potamia, D.D. Rachi Municipality of Amvrakikos
- Geotechnical Study (2021): Geotechnical research-study for the establishment of an MT/150kV substation in the area of Petrousa Drama
- Geotechnical Study (2020): Geotechnical research-study of pumping systems in the area of Young Passengers (EYATH S.A.)
- Geotechnical Study (2020): Geotechnical research-study and proposal for foundation in the area of the central peristyl in the framework of the project "Fixing, Maintenance, Restoration and Promotion of the Palace of the Goats, Phase D1"
- Geotechnical Study (2020): Geotechnical research and study on the establishment of a biogas plant in N. Amissos Xanthi
- Geotechnical Study (2020): Geotechnical research-study on the establishment of an electricity plant using biogas in Eleon Viotia
- Geotechnical Study (2020): Geotechnical research-study on the establishment of an electricity plant using biogas in Arma Viotia
- Geotechnical Study (2020): Geotechnical investigation of the phenomenon of differential construction sediments on Gregorio E 12 and Melenikos streets in Thessaloniki (BRANDWORKS IKE)
- Geotechnical Study (2020): Geotechnical study for the maintenance and restoration of the Holy Church of Agios Nikolaos Eleona Serres (JEROS NAOS Agios NIKOLAOS ELIAS SERRON)
- Geotechnical Study (2020): Geotechnical study for the foundation of a two-storey building with basement and roof in the foundation of I. M. Agia Ekaterini in The Monastery of Thessaloniki (IERA METROPOULOS OF NEW CRINIS AND KALAMARIA
- Geotechnical Study (2020): Geotechnical research-study on the establishment of an electricity plant using biogas in B.I.P. Serres, OT. 11, ECO. 5 (BIOFUELS IKE)
- Geotechnical Study (2020): Geotechnical study at the site of the photovoltaic plant EDM2 with a rated power of 14,99M and at the site of installation of substation 20KV/150KV outdoor type at the location "Drypotamos" of the Municipality of Eordaia (DEI ANNEOSIMS)
- Geotechnical Study (2019): Geotechnical study of the Photovoltaic Plant with a rated power of 14,99M at the location "Oldbella" of P.E. Kozani (ECORECOURS IKE)
- Geotechnical Study (2019): Geotechnical study on a plot of land on Karaoli & Dimitriou 32 and Antigonides 38, in the area of Antigonides Square in Thessaloniki (THESSALONIKI CITY AUTHORITIES)

- Geotechnical Study (2019): Geotechnical research-study on the parcel of 301 owned by Mr. Tsilimpis in Kalochori, Thessaloniki (TETRABOX Single Person IKE)
- Environmental Study (2019): Preparation of a gravity wall M.P.E. for the settlement of the small watercourse near The Philip Charitou parcel in Vlachokerasia Arcadia
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions of Biogas tanks in location "Zerva", Ano Vasilika, Min. of Farsala.
- Geotechnical Study (2019): Engineering geological and Geotechnical investigation of foundation conditions H.M. Timios Prodromos, Veroia.
- Geophysical study (2019): Electric resistivity tomography and ground penetration radar investigation in Agious Thodorous Church, Serres.
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions of Biogas tanks in location "Dargiol", Min. of Tirnavos.
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions of Biogas tanks in N. Tenedos, Min. of Chalkidiki.
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions in Alkinoos st., Kalamaria.
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions of Biogas tanks in Kontariotissa, Min. of Pieria.
- Hydrogeological Study (2019): Arrangement of streams in location Vlachokerasia, Min. of Arkadia.
- Geotechnical Study (2019): Geotechnical investigation of foundation conditions in Palace of Aiges, Vergina, Min. of Imathia.
- Geotechnical Study (2018): Geotechnical investigation of foundation conditions in Stageiriti 37 st., Pilaia, Thessaloniki.
- Hydrogeological Study (2018): Arrangement of streams in location "Kagelia", Vlasti, Min. of Eordaia.
- Geotechnical Study (2018): Geotechnical investigation of foundation conditions and stability of excavations in Vlachokerasia, Arkadia.
- Geotechnical Study (2018): Slope stability investigation of slopes along the N. Fokaia-Athitos road, Chalkidiki.
- Geotechnical Study (2018): Geotechnical investigation of foundation conditions in Hotel "Toroni", Chalkidiki.
- Geotechnical Study (2018): Restoration of preserved school in Kriezotou, Min. of Thessaloniki.
- Geotechnical Study (2017): Geotechnical investigation in Gorthetha, Min. of Kranidi, Argolis.
- Application study (2017): Study for the protection of a slope downstream of Holy Monastery of Evaggelismos Theotokou in Mount Athos, and design of a drainage system and works of containment of its erosion agents.
- Geotechnical study (2017): Foundation design for the construction of a public building in Ag. Mamas, Mun. of Propontida
- Geotechnical study (2017): Geotechnical evaluation of the foundation conditions of Holy Monastery Osiou Filotheou, Mount Athos

- Geotechnical study (2017): Geotechnical evaluation of the foundation conditions of Holy Monastery Koutloumousiou, Mount Athos
- Geotechnical study (2017): Design of remedial measures of settlements in Holy Monastery Agias Triados, Panorama, Thessaloniki
- Geotechnical study (2017): Foundation design for the construction of the 3rd public school in Nea Moudania, Mun. of Propontida
- Geotechnical study (2017): Foundation design for the construction of a public Gym in Simantra, Mun. of Propontida
- Geotechnical study (2017): Foundation design for the construction of the 4rd public school in Nea Kallikrateia, Mun. of Propontida
- Engineering geological study (2017): Study for the protection of a slope downstream of Holy Monastery of Evaggelismos Theotokou in Mount Athos, and design of a drainage system and works of containment of its erosion agents.
- Geotechnicall study (2017): Study for the protection of a slope downstream of Holy Monastery of Evaggelismos Theotokou in Mount Athos, and design of a drainage system and works of containment of its erosion agents.
- Geotechnical study (2016): "Geotechnical study in Holy Monastery Iviron, Mount Athos".
- Geotechnical study (2016): "Geotechnical study in Geni Tzami, Edessa, Greece".
- Geological study (2016): "Construction of a Waste Treatment Palnt in Thermi, Thessaloniki"
- Geotechnical study (2016): Investigation of instability problems and design of stabilization measures of slope failure phenomena along the coastal zone in H.M. Pantokratoros, Mount Athos".
- Geotechnical study (2015):"Investigation of the foundation conditions in Vagiazit, Didimoteiho".
- Geological study (2014): "Failure phenomena in the eastern rock slope of the coastal zone in H.M. Pantokratoros, Mount Athos"
- Geological & Geotechnical study (2014): "Foundation conditions, slope stability analysis and investigation of alternative stabilizing methods of Koimiseos tis Thotokou and Agios AThanasios temples in Skotina, Pieria".
- Geotechnical study (2014): "Investigation of landslides in Profitis Ilias, Mount Athos".
- Geotechnical study (2014): "Foundation design of the eastern ward in H.M. Koutloumousiou, Mount Athos".
- Geological study (2014): "Investigation of archaeological relics using electric resistivity tomography method in Agiou Dimitriou str., Thessaloniki".
- Geotechnical study (2013): "Foundation design of a steel shed in military camp Vasmanoli, Samos Island"
- Geotechnical study (2013): "Restoration of slope failures in an ancient road using EPS (geofoam)".
- Geotechnical study (2013): "Design of restoration of failures in a cut slope during excavation works of Macedonian Tomb in Derveni, Thessaloniki".
- Geotechnical study (2012): " Design of deep foundation with piles in the south ward of Aigon Palace in Vergina".

- Geotechnical study (2012): "Foundation design of a solar plant in Sximatari Viotias".
- Geological study (2012): "Investigation of archaeological relics using electric resistivity tomography method in Ethnikis Aminis str., Thessaloniki".
- Geotechnical study (2012): "Foundation design of a solar plant in Geraki Lakonias".
- Geotechnical study (2012): "Foundation design of a solar plant in Gonnous Larisas".
- Geotechnical study (2012): "Foundation design of a storage unit of chemical fluids in VI.PA.THE, Thessaloniki".
- Geotechnical study (2012): "Foundation design of the Culural Hertage Center in Gorgopi".
- Geotechnical study (2012): "Upgrade of the storage and water supply infrastructure in Iasmos, Rodopi".
- Geological study (2012): "Study of the waste drainage system in Elaiorema, Thessaloniki".
- Geological study (2011): "Final geological study for the construction of national road Serres-Drama, Lefkothea section".
- Geotechnical study (2011): "Promotion protection and restoration of Macedonian Tomb Makridi-Bei in Derveni, Thessaloniki".
- Geotechnical study (2011): " Foundation design of a 5 storage building in Aghisou str., Komotini".
- Geotechnical study (2010): "Restoration of failures in Ano Melas Dam".
- Environmental study (2010): "Construction of a coastal barrier in Elia, Chalkidiki".
- Geotechnical study (2010): "Foundation design of Ydrousa bridge".
- Geotechnical study (2010): "Arrangement of Flabouro river bed, Florina".
- Geotechnical study (2010): "Geotechnical investigation of ground conditions for the construction of a storage lake in Agioi Theodoroi, Greece"
- Geological study (2010): "Investigation of geological conditions in Panorama Thessaloniki within urban development works".
- Geotechnical study (2009): "Foundation design of Temple Neou tou Iatrou in Ossa, Macedonia-Greece".
- Geotechnical study (2009): "Foundation design of a temple in Perivolaki, Lagadas".
- Geotechnical study (2009): "Foundation design of a 2 storage building and basement in Sindos, Thessaloniki".
- Geotechnical study (2009): "Foundation design of a 2 storage building and in Ypsilantou str. Sindos, Thessaloniki".
- Geotechnical study (2009): "Foundation design of the elementary school building in K. Nevrokopi, Greece".
- Geotechnical study (2009): "Foundation design of sports center building in K. Nevrokopi, Greece".
- Geotechnical study (2009): "Foundation design of B' building of a paper bag factory in Sindos, Thessaloniki".

- Hydrogeotechnical study (2008): "Construction of the cultural center of Tagarades, Greece".
- Geological study (2008): "Construction of the cultural center of Tagarades, Greece".
- Geotechnical study (2008): "Foundation design of a 4 storage building in Thermi, Thessaloniki".
- Geological study (2008): "Construction of the multitask park in Kranea Meniidos".
- Geotechnical study (2008): "Construction of the multitask park in Kranea Meniidos".
- Geotechnical study (2008): "Foundation design of a 4 storage building and basement in Ampelokoipoi, Thessaloniki".
- Geotechnical study (2008): "Foundation design of a 3 storage building in Agiou Kosma str. Sindos, Thessaloniki".
- Geological & Geotechnical study (2008): "Supplementary investigation of water resources development works in river Olinthios, Chalkidiki".
- Geological study (2006): "Flood protection works along Argalasti-Horto road, Magnisia".
- Geological study (2006): "Flood protection works and lowering of water table in Avdira archaeological site, Thrace".
- Geological & Geotechnical study (2004): "Technical reports for the stability of cut slopes between P.9+000 and P. 15+000of Asprovalta section, Egnatia highway".
- Geological & Geotechnical study (2004): "Promotion, protection and restoration of Polifimos cave, Maroneia-Thrace".