

SHORT RESUME (FOLLOWED BY AN EXTENDED ONE)

OF

Constantine I. Sachpazis

Dr. Geotechnical Engineer - Civil Engineer & Dipl. Eng. Geologist

(BEng (Hons) Civil Eng. UK, Dipl. Geol, M.Sc.Eng UK, Ph.D. NTUA (E.M.II.), Post-Doc. UK, Gr.m.ICE.)

PERSONAL INFORMATION

NAME (f,m,l): CONSTANTINE I. SACHPAZIS
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e-mail: costas@sachpazis.info - URL: <http://www.geodomisi.com>
LinkedIn Profile: <http://gr.linkedin.com/pub/dr-costas-sachpazis/17/483/119>
PROFESSION: Dr. Geotechnical Engineer - Civil Engineer & Dipl. Eng. Geologist.

KEY QUALIFICATIONS

- Geotechnical Site Investigation planning and Implementing in major projects concerning Foundations, Tunnels, Roads & Railways, Underground Works & Dams, etc.
- Soil – Foundation – Structure Interaction Analysis under Seismic Excitation.
- Analysis and Design of Specific & Complicated Foundation Systems.
- Deep Anchored Piled Retaining Walls (Analysis, Design, Detailing).
- Design, Construction and Supervision of Soil and Rock slopes and excavations. (Slope stability analyses problems and Retaining structures. Slope Stabilization techniques).
- Design of Ground Improvement techniques.
- Design of Geotechnical Engineering Monitoring Systems and Instrumentation in Geotechnical Applications.
- Soil stabilization techniques and soil properties improvement – cement, chemical grouting, etc.
- Suitability of building stones and aggregates for concrete - railway ballast & skid resistant pavements.
- Implementation of quality control procedures.
- Management and protection of underground/surface water resources and the environment, using integrated Computerized Intelligent Engineering Systems.
- Laboratory testing on concrete, soils and rocks and evaluation of their suitability as construction materials for various purposes.
- Structural Modelling, Analysis, Design and Detailing to E.C.2 & E.C.3.
- Reviewing and approving Civil & Geotechnical Engineering Reports for various construction purposes.
- Preparation of technical proposals and method statements.
- Responsibility on internal training of staff in Civil Engineering Projects.

KEY SKILLS

- Leadership Capabilities. (He is the Founder & Managing Director of “GEODOMISI Ltd” Civil & Geotechnical Engineering Consulting Company - <http://www.geodomisi.com>).
- In addition, he is the co-Founder & co-Managing Director of “GeoStatic Ltd”, Civil, Geotechnical & Structural Engineering Consulting Company, Registered in England & Wales with Reg. No.: 09868532/UK - <http://www.geostatic.eu>).
- Preparation of commercial proposals and tenders.
- Financial analysis for annual budgets.
- Overall responsibility for project cost control and income/contract increase.
- Handling of customer complaints and setting up curative, corrective and proactive actions.
- Implementation for QA / QC Systems - ISO.
- Good presentation skills.
- Good sense for business opportunities.
- Understanding of market volume and competitors.
- Establishment of strategic and development plans for new project.

SHORT & EXTENDED CURRICULUM VITAE of Dr. CONSTANTINE J SACHPAZIS.

• 29 Dionysiou Str., T.K. 131 22, Ilion. Tel: 210-5238127, Fax: 210-5711461. Mobil: +306936425722 and +447585939944. URL: <http://www.geodomisi.com>. E-mail: costas@sachpazis.info

- Establishing Business Plans and Feasibility Studies for potential local and regional areas.
- Ability to develop strategic relationships with potential clients and/or partners.
- Experience and judgment to plan and accomplish goals.
- Ability to perform a variety of complicated tasks.
- Communication. Ability to deal with internal and external clients at all levels via telephone, email and/or face to face, to ensure successful communication through actively listening and probing questions.
- Problem solving. Ability to resolve in-depth engineering queries in a methodical manner independently and with internal and external business partners to find appropriate resolutions, efficiencies and high level of quality.
- Team Player. He enjoys sharing knowledge and encouraging development of other senior / junior engineers to achieve specific team goals.
- Planning and organizing. Refined planning and organizational skills that balance work, team support and ad-hoc responsibilities in a timely and professional manner.
- Systems knowledge - Pert, Gantt, Oracle, MS Project Professional 2010. Experience in preparing and analyzing reporting data for management accurately and to timescales.

PROFESSIONAL ACTIVITIES - EXPERIENCE

Since 1983, as a professional Geotechnical Engineer - Civil Engineer and as a founder of GEODOMISI Ltd, Consulting Engineering Company, he has carried out, or participated in over one thousand (1000) Geotechnical Engineering, Civil Engineering, Soil Mechanics, Rock Mechanics, Foundation Engineering, Seismic Risk Analysis, Geological Engineering, Environmental Engineering and Water Resources Management projects, both in Private and mainly in Public Sector, being engaged in fieldwork and design of Special Foundations, Landslides, Retaining Walls & Systems, Soil and Rock Slope Stability Analysis, Geotechnical Site Investigations, Tunnels, Dams, Highways, Hydrogeology, Management of Water Resources using G.I.S., Waste Management and Disposal, etc.). In addition, during his M.Sc.(Eng) / Ph.D. researches & studies he performed a great deal of various soil and rock mechanics laboratory tests.

He participated in European Community Research Programs (Envireg), relevant to issues of Geotechnical Engineering. He has considerable experience in studies of Slope Stability Analysis problems in both Soils and Rocks masses (Bishop - Morgenstern-Price, GLE, Spencer, Hoek - Bray - Brown) by using Limit Equilibrium (LEM), Limit Analysis (LAM) and Finite Element Analysis Methods (FEM), as well as in Structural Analysis & Design of Earth Retaining Systems. He has extensive experience in all classification systems and methods of Soil and Rock masses and their applications in tunnel support design. (i.e.: Terzaghi, Deere et al, Lauffer, Wickham et al (R.S.R.) Bieniawski (C.S.I.R.), Barton et al (Q - N.G.I.), Bouvard et al (A.F.T.E.S.), Swiss Specifications SIA 198 - SIA 199, New Austrian Tunnelling Method (N.A.T.M.), Pacher et al., etc. During 1989 - 1991 he was responsible for the Soil and Rock mechanics study of the stability analysis of Alistrati Cave - Tunnel in Serres district. (Works and Studies: Analysis of discontinuities using Schmidt and Kamb Stereographic nets. - C.S.I.R. (Bieniawski) classification of jointed rock mass. - Wedge or plane failure analysis (on Roofwall and Sidewall) - Two-dimensional Boundary Element Stress Analysis - Conclusions on Rock Stability problems and Support design (Rockbolts, Shotcrete, mesh, etc). During 1995 - 1996, he had cooperated with P. Kotzias - A. Stamatopoulos Ltd Company, for the excavation works and the retaining walls of the garage of the Athens Concert Hall, as well as for the design of the new railway line at Platamon (Greek Railways O.S.E.). In addition, he has cooperated with major Contractors of Public Works, for the analysis & design of various earth & rock retaining walls and slope stabilization for a number of highway & structural projects. He has also been exclusive geotechnical engineering consultant of ATTIKO METRO S.A. for the Design and Calculations of 40 Anchored piled Retaining Walls, 19,45 m deep, of Agios Antonios Metro Station at Peristeri - Attica - Greece. Furthermore he has been geotechnical engineering consultant of both EGNATIA ODOS S.A. and ERGOSE S.A. for the design of large scale motorway and railway projects and underground works, as foundation of bridges, tunnels and protection and stabilization of slopes from landslides. Moreover, he has also been the exclusive geotechnical engineering consultant of OLYMPIC GAMES ATHENS 2004 for the execution and the design of the geotechnical investigation and foundation engineering aspects for the construction of the Marathon Olympic rowing game centre roads at Schinias - Attica/Greece. Finally, during 2009 - 2011, he was the exclusive geotechnical engineering consultant (via his company Geodomisi Ltd) for the planning and construction of the biggest Greek natural gas fired

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Combined Cycle Power Plant (CCGT) Project, developed and owned by the Joint Venture between the Greek Public Power Corporation (PPC) and Steel Production Incorporated Industry «HALYVOURGIKI S.A.». In this project he was cooperating and working along with the general Energy Project Consultant «Mott MacDonald Limited».

Finally he is a founding member of the journalistic union, titled: "European Union of Journalists for Environment and Life Quality"

PROFESSIONAL LICENSES

He is chartered in Greece & Europe, holding the following professional licenses:

- ✓ Professional License issued by the Ministry for Development, Competitiveness, Infrastructure, Transport & Networks. Registration Number: 440, Category/Class 21/C' & 20/C' & 13/B'.
- ✓ Professional License issued by the Ministry of Defence for executing Military Projects concerning "NATO-FORTIFICATION-TOP SECRET". Registration Number: 1947-F.589.6/76033-S.2092.
- ✓ Professional License issued by the EUROPEAN COMMISSION-E.C.-Directorate-General III. Registration Number: 003908/26-02-1997.

MEMBERSHIPS

1. International Society of Soil Mechanics and Geotechnical Engineering (I.S.S.M.G.E.).
2. International Society for Rock Mechanics (I.S.R.M.).
3. European Water Resources Association.
4. Geotechnical Chamber of Greece (179/85).
5. Greek Scientific Society of Soil Mechanics and Foundation Engineering.
6. British Geotechnical Society (B.G.S.).
7. International Tunelling Association (I.T.A.).
8. International Association of Engineering Geology (36/128).
9. Greek Geological Society (760/84).
10. Greek Tunneling Society.
11. Greek Committee of Engineering Geology.
12. Greek Association of Geologists.
13. Photogrammetric Society of Greece.
14. European Union of Journalists for Environment and Life Quality.
15. Hellenic Association of the National Technical University of Athens (N.T.U.A.).
16. Since 25th of February 2013, he is a Graduate Member of "The Institution of Civil Engineers" (ICE). ICE Membership Number: 67689219.
17. Founding and Constitutional Member of the Scientific, Non-Profit Organization called: "Greek Local Association of the Institute of Civil Engineers", briefly "Greek Local Association of ICE", 2014.

LANGUAGES

He speaks, writes, reads English and Greek fluently, and has a limited working knowledge of French language.

P.C.

He uses and programs Computers. He has developed more than 150 software programs, concerning Geotechnical Engineering, Civil Engineering, Soil Mechanics, Rock Mechanics, Foundation Engineering and Hydrogeological applications. He has a profound and extensive knowledge on using and configuration / setting up Operating Systems and Platforms like: ESXi v. 4.1 & v.5.0 platform, MS Servers 2008 R2 Enterprise Ed & MS Server 2012 RC, MS Exchange Servers 2010, FTP Servers, Web Servers, Oracle, Asterisk VoIP Call Centres (Trixbox), NAS storage systems, PLCs, etc, as well as on controlling remotely Servers & WorkStations by using remote access software like remote desktop, VNC, TeamViewer, iLO2, WinSCP for Linux systems, etc. Moreover, he has from good to excellent experience in the following Geotechnical - Structural Engineering software: Lusas 2015, Dlubal, CYPE 2015, Prokon, Etabs 2016, LimitState RING 3.1, CSiCol 9, IDEA StatiCa 6 x64, GeoStru 2016 MegaPack, MASTER EC7 Foundations 2015, ACECOMS GEAR, AFES 3.0, Shaft3D, Tedds 2015, Digital Canal, GeoStructural Analysis, Strater 4, StablPro v3.0, RetainPro 10, ConSteel 9.0, csJoint 9.0, ENC20-Anemos, foundationPro, GROUND_ANCHORS 1.6, LPILE v2015, AllPile7, SAAP2000, CSC ORION, ETABS, SAFE, CSIBRIDGE, FESPA, 3D Tunnel FEM, GEMSoft, Tunnel analysis programs, by the NATM New

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Austrian Tunneling Method, Larix-5S/5G/5M, Plaxis, Geosolve Slope, Rocscience software Suite 2012 (Dips, Examine3D, Phase2, Roc Data, RocFall, RocPlane, RocSupport, Settle3D, Slide, Swedge, Unwedge), Talren-4, Geo 5, Slope Oasys Geo 5, Soil Package, Limit State Geo, Clara-W, Slope-W, Galena, SVS Slope, Slide, Tslope, RockWare Inc, ROC Rocscience, DATASURGE, Tunnel Assistant, ROCKPACK, Rockmate, ROCKJRM, ROCKJR, Pillar, Kbtunnel, Vec, HYFRACP3D, GEOROK, GDA (Geomechanical Design Analysis), Cpillar, Classex, CLASROCK, BLOCK, Slope Stability Analysis Software (STABL), TAGAssoft, Mitre Software Corporation, Wedge Failure Analysis, WEDGE, SLOPEPACK, ROTOMAP, RocPlane, ROCKPF, ROCKPACK III, ROCK3D, Plane Failure Analysis, Kbslope, Geoslide/Proslide, GeoRock (GeoStru), EzSlide, CLU_STAR, ACCECALC, Slope stability and inclinometer software, GeoStudio 2012 Universal (SLOPE/W, SEEP/W, SIGMA/W, QUAKE/W, TEMP/W, CTRAN/W, AIR/W, VADOSE/W).

CONFERENCES - SEMINARS

He has delivered more than forty 40 lectures - presentations - seminars as a principal speaker in the Public Media (TV, Radio), Guest lecturer at Universities, etc..

He has also attended eighty-nine (89) conferences - seminars, concerning Foundation Engineering, Retaining Structures for Deep Excavations (Anchored piled Retaining Walls), Tunnels & Dams, Rock and Soil Mechanics, Engineering Geology, Environmental Aspects and Hydrogeology, Health & Safety Plans & Files, etc., given by various Professors and/or Companies specialized staff.

RESEARCH WORK AND PUBLISHED PAPERS

He has thirty (30) papers published in both International and Greek Scientific Bulletins, in the field of Civil Engineering, Geotechnical Engineering and Engineering Geology - Hydrogeology. There are more than one hundred fifty (150) citations found so far on International scientific papers of other authors scientific work. He has also written four (4) academic books, titled: a) «Introduction to Soil Mechanics I», b) «Remote Sensing and photogeology. A tool to route selection of large highways and roads», c) «Introduction to Soil Mechanics II and Rock Mechanics», and d) of «Geotechnical Engineering for Dams and Tunnels». He has also written the following course lectures notes: 1) Clay Mineralogy, 2) Soil Classification, 3) Phase Relations 4) Soil Compaction, 5) Permeability 6) Shear strength of soils, 7) Consolidation, 8) Lateral Earth Pressures, 9) Geotechnical Site Investigation, and 10) Introduction to Geotechnical Engineering.

EDUCATION

He was educated in both British and Greek Universities:

- 1) Diploma in Applied Geology. Aristotle University of Thessaloniki. Greece. 1980.
- 2) Attendance of final year of the Bachelor degree (B.Sc. Eng.) in the Civil Engineering Faculty at the University of Newcastle Upon Tyne, England, 1982.
- 3) M. Sc. Eng., in Geotechnical Engineering. Civil Engineering Department. University of Newcastle Upon Tyne, England. (Specialized in: Foundation Engineering, Soil Mechanics, Rock Mechanics, Laboratory testing-researching of Soils and Rocks, Engineering Geology, Underground water flow). 1983.
- 4) Ph.D., in Geotechnical Engineering - Engineering Geology, at the National Technical University of Athens (N.T.U.A.) - Greece, 1988. Grade: Excellent Unanimously. Specialized in: Geotechnical Engineering - Rock Mechanics - Rock Testing.
- 5) Post-Doc Research fellow invitation in Carbon Critical Geotechnics at Newcastle University, U.K., 2012.
- 6) B.Eng (First Class Honours) in Civil Engineering, at the University of Portsmouth, England. (Ranking place: Top student distinction because he achieved the highest overall grade in the cohort of 120 classmates).

During academic years 1983-84, 1984-85 and 1985-86, he was sponsored by the Postgraduate Scholarship Committee of the National Technical University of Athens. He served in the Military corps of Engineers as a Computer Programmer.

ADDITIONAL HONORS & AWARDS

- 2013: ICE Student Prize Winner Award. The Institution of Civil Engineers awarded him the "2013 ICE Student Prize" for his University. The prize is awarded to the best civil engineering student at each participating universities and is based not only on examination performance but also takes into account course work and ability in civil engineering design.

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- 2013: During his studies in B.Eng. (Hons) Civil Engineering, in the United Kingdom, he achieved a top student distinction because he obtained the highest overall grade, 86%, in the cohort of 120 classmates in his final year.
- 2012: In addition, during his pre-final year, he achieved a second ranking place with an average mark of 83 %.
- 1984-1986: Scholarship from the Hellenic State Scholarship Foundation (IKY) for Ph.D. research.

ACADEMIC ACTIVITY

- Associate Professor of Geotechnical Engineering, at the Department of Geotechnology and Environmental Engineering of the Technological Educational Institute of Western Macedonia, Greece, since 2002. He teaches: a) Soil Mechanics I, b) Geotechnical Engineering for Tunnels and Dams, and c) Soil Mechanics II and Rock Mechanics with Computer Aided Geotechnical Engineering Design & Analysis. During academic years 2008-2009 until 2010-2011, he was elected as Head of the Department.
- Adjunct Professor at the Greek Open University in the Postgraduate (M.Sc.) programme “Waste Management”, teaching Geotechnical and Environmental Engineering aspects. 2008 to 2011.
- Adjunct Professor at the Greek Open University in the Postgraduate (M.Sc.) programme “Earthquake Engineering and Seismic-Resistant Structures”. 2014 to date.
- Since 2003 until 2007 he was the academic representative for the European program of mobility and exchange of professors and students «ERASMUS».
- Over the years, he has taught in a number of specific subsidised seminars to qualified Engineers, organised by the Technical Chamber of Greece and the E.U..
- Finally, he has been a Reviewer of Scientific Articles and Publications for: a) the International Publishing Organization «Elsevier», b) the International Journal of Sustainable Development & World Ecology, c) the Bio- and Medical Informatics and Cybernetics: BMIC 2011, d) the International Journal of Physical Sciences, e) the Journal of Civil Engineering and Construction Technology (JCECT), f) the International Publishing Organization «Springer». Additionally, he was a Reviewer in the 5th International Symposium on Bio- and Medical Informatics and Cybernetics: BMIC 2011 and in the 3rd International Conference on Civil Engineering and Urban Planning (CEUP 2014), held in Wuhan, China, June 20-22, 2014.

INDUSTRIAL EXPERT

- He has served as an Industrial Expert, appointed by the Hellenic Republic Ministry of Education, Lifelong Learning and Religious Affairs, for the evaluation and assessment of research proposals submitted to the Inter-State Programme for Research, Innovation & Technological Development between Greece and Israel.

OFFICIAL REPRESENTATIVE OF THE ITA-AITES

- He has served as Official representative of the International Tunnelling Association (ITA) for Greece for 2014, in the Sector of “Conventional Tunnelling” – Working Group 19 (WG 19).

OFFICIAL REPRESENTATIVE OF THE ISSMGE

- He has served as Official representative of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), for Greece for 2015, in the Technical Committees: JTC1 Natural Slopes and Landslides TC303, Coastal and River Disaster Mitigation and Rehabilitation and JTC2 Representation of Geo-Engineering Data.

With Respect

Dr. Constantine I. Sachpazis
BEng (Hons) Civil Eng. UK, Dipl. Geol, M.Sc.Eng
UK, Ph.D. NTUA (E.M.II.), Post-Doc. UK, Gr.m.ICE.

EXTENDED CURRICULUM VITAE

Constantine I. Sachpazis

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e-mail: costas@sachpazis.info

URL: <http://www.geodomisi.com>.

PERSONAL DETAILS - EDUCATION.

Born in 1958 in Athens.

- Graduate of the Aristotle University of Thessaloniki, Greece. Diploma in Applied Geology, 1980.
- Attendance of final year of the Bachelor degree (B.Sc. Eng.) in the Civil Engineering Faculty at the University of Newcastle Upon Tyne, England, 1982.
- Master of Science degree (M.Sc. Eng.) in Geotechnical Engineering of the Civil Engineering Faculty at the University of Newcastle Upon Tyne, England, 1983.
- Ph.D. in Geotechnical Engineering - Engineering Geology, at the National Technical University of Athens (N.T.U.A.) - Greece, 1988. Grade: Excellent Unanimously.
- Post-Doc Research fellow invitation in Carbon Critical Geotechnics at Newcastle University, U.K., 2012.
- B.Eng (First Class Honours) in Civil Engineering, at the University of Portsmouth, England. (Ranking place: Top student distinction because he achieved the highest overall grade in the cohort of 120 classmates).

He is specialized in Geotechnical Engineering, Foundation Engineering, Soil Mechanics, Rock Mechanics, Structural Analysis & Design, Structural

Engineering, Steel Structures, Reinforced Concrete, Civil Engineering, Finite Element Analysis (Lusas 2015, Dlubal, CYPE 2015, Prokon, Etabs 2016, LimitState RING 3.1, CSiCol 9, IDEA StatiCa 6 x64, GeoStru 2016 MegaPack, MASTER EC7 Foundations 2015, ACECOMS GEAR, AFES 3.0, Shaft3D, Tedds 2015, Digital Canal, GeoStructural Analysis, Strater 4, StablPro v3.0, RetainPro 10, ConSteel 9.0, csJoint 9.0, ENC20-Anemos, foundationPro, GROUND_ANCHORS 1.6, LPILE v2015, AllPile7, SAAP2000, CSC ORION, ETABS, SAFE, CSIBRIDGE, FESPA, PLAXIS, PHASE2.8, GeoStudio, etc), Engineering Geology, Hydrogeology, Water Resources and Environmental Management, Laboratory testing-researching of Soils, Rocks, Water.

He can programme a computer using mainly the languages: Basic, Fortran 77, Pascal, as well as FRED. He has developed more than 150 original computer programmes (software) which solve problems of Rock Mechanics, Soil Mechanics, Soil Dynamics, Foundation Engineering, Geotechnical Engineering, Engineering Geology and Hydrogeology using mathematical simulations (models), finite element analysis and G.I.S.. He has also specialized in G.I.S.. He has a profound and extensive knowledge on using and configuration / setting up Operating Systems and Platforms like: ESXi v. 4.1 & v.5.0 platform, MS Servers 2008 R2 Enterprise Ed & MS Server 2012 RC, MS Exchange Servers 2010, FTP Servers, Web Servers, Asterisk VoIP Call Centres (Trixbox), NAS storage systems, PLCs, etc, as well as on controlling remotely Servers & WorkStations by using remote access software like remote desktop, VNC, TeamViewer, iLO2, WinSCP for Linux systems, etc. Moreover, he has from good to excellent experience in the following software Geotechnical - Structural Engineering software: Lusas 2015, Dlubal, CYPE 2015, Prokon, Etabs 2016, LimitState RING 3.1, CSiCol 9, IDEA StatiCa 6 x64, GeoStru 2016 MegaPack, MASTER EC7 Foundations 2015, ACECOMS GEAR, AFES 3.0, Shaft3D, Tedds 2015, Digital Canal, GeoStructural Analysis, Strater 4, StablPro v3.0, RetainPro 10, ConSteel 9.0, csJoint 9.0, ENC20-Anemos, foundationPro, GROUND_ANCHORS 1.6, LPILE v2015, AllPile7, SAAP2000, CSC ORION, ETABS, SAFE, CSIBRIDGE, FESPA, PLAXIS, PHASE2.8, GeoStudio, SAAP2000, CSC ORION, ETABS, SAFE, CSIBRIDGE, FESPA, 3D Tunnel FEM, GEMSoft, Tunnel analysis programs, by the NATM New Austrian Tunneling Method, Larix-5S/5G/5M, Plaxis, Geosolve Slope, Rocscience software Suite 2012 (Dips, Examine3D, Phase2, Roc Data, RocFall, RocPlane, RocSupport, Settle3D, Slide, Swedge,

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Unwedge), Talren-4, Geo 5, Slope Oasys Geo 5, Soil Package, Limit State Geo, Clara-W, Slope-W, Galena, SVS Slope, Slide, Tslope, RockWare Inc, ROC Rocscience, DATASURGE, Tunnel Assistant, ROCKPACK, Rockmate, ROCKJRM, ROCKJR, Pillar, Kbtunnel, Vec, HYFRACP3D, GEOROK, GDA (Geomechanical Design Analysis), Cpillar, Classex, CLASROCK, BLOCK, Slope Stability Analysis Software (STABL), TAGAssoft, Mitre Software Corporation, Wedge Failure Analysis, WEDGE, SLOPEPACK, ROTOMAP, RocPlane, ROCKPF, ROCKPACK III, ROCK3D, Plane Failure Analysis, Kbslope, Geoslide/Proslide, GeoRock (GeoStru), EzSlide, CLU_STAR, ACCECALC, Slope stability and inclinometer software, GeoStudio 2012 Universal (SLOPE/W, SEEP/W, SIGMA/W, QUAKE/W, TEMP/W, CTRAN/W, AIR/W, VADOSE/W).

During academic years 1983-84, 1984-85 and 1985-86, he was sponsored by the Postgraduate Scholarship Committee of the National Technical University of Athens. He served in the Military corps of Engineers as a Computer Programmer.

SPECIALIZATION

Geotechnical engineering and Soil Mechanics studies - researches, Site Investigations, Anchored piled Retaining Walls, Slope Stability Analysis and Stabilization, Tunnelling, Underground Works, Geotechnical Engineering aspects of Dam Design, Rock & Soil Mechanics, Foundation Engineering, Soil - Structure Interactions, Earthquake resistant Foundation Designs - Ground Improvement. Geological, Hydrogeological, Geophysical studies - researches. Ground - drilling works (both ground water and ground investigation drillings). Studies on the Environmental Impact and the Preservation of the Environment. Studies on Management of the Water Resources using Geographical Information Systems (G.I.S).

FOREIGN LANGUAGES

He writes and speaks English fluently. He can use French and Italian Geotechnical Bibliography. He is attending Russian Language lessons.

MEMBERSHIPS

1. International Society of Soil Mechanics and Geotechnical Engineering (I.S.S.M.G.E.).
2. International Society for Rock Mechanics (I.S.R.M.).
3. European Water Resources Association.
4. Geotechnical Chamber of Greece (179/85).
5. Greek Scientific Society of Soil Mechanics and Foundation Engineering.
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7. International Tunelling Association (I.T.A.).
8. International Association of Engineering Geology (36/128).
9. Greek Geological Society (760/84).
10. Greek Tunneling Society.
11. Greek Committee of Engineering Geology.
12. Greek Association of Geologists.
13. Photogrammetric Society of Greece.
14. European Union of Journalists for Environment and Life Quality.
15. Hellenic Association of the National Technical University of Athens (N.T.U.A.).
16. Since 25th of February 2013, he is a Graduate Member of "The Institution of Civil Engineers" (ICE). ICE Membership Number: 67689219.
17. Founding and Constitutional Member of the Scientific, Non-Profit Organization called: "Greek Local Association of the Institute of Civil Engineers", briefly "Greek Local Association of ICE", 2014.

PROFESSIONAL ACTIVITIES

Since 1983 he has been working as a Geotechnical Engineer - Civil Engineer on a freelance basis. He owns and runs offices in Athens: 32 Marni Str., P.C. 104 32. He is the managing director.

He has founded and directs the «GEODOMISI Ltd», Geoconstruction Engineering Company for Design, Supervision and Construction, which holds a professional degree - licence for companies (number 440), issued by the Ministry of a Public Works at the categories: 21 (Soil & Rock Mechanics and Geotechnical Engineering Studies and Researches) Class C, 20 (Engineering Geological -

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Hydrogeological - Geophysical Studies and Researches) Class C, and 13 (Hydrological and Hydraulic Studies and Researches) Class B.

In addition, he is the co-Founder & co-Managing Director of "GeoStatic Ltd", Civil, Geotechnical & Structural Engineering Consulting Company, Registered in England & Wales with Reg. No.: 09868532/UK - <http://www.geostatic.eu>.

He is chartered in Greece, holding a professional degree - licence (number 4999), issued by the Ministry of a Public Works at the categories: 21 (Soil & Rock Mechanics and Geotechnical Engineering Studies and Researches), Class C (uppermost class), and 20 (Engineering Geological - Hydrogeological - Geophysical Studies and Researches), Class C (uppermost class), which is valid from 19-04-1995, based in Athens, and enables him to undertake studies and researches for the Public Sector. He is also accredited by the EUROPEAN COMMISSION - Directorate-General III (26-02-1997. Reg. n. 003908), for executing studies and/or provision of services in the field of Geotechnical Engineering, Engineering Geology, Hydrogeology and Environment. He has finally been listed in the researchers of the Ministry of Defence to carry out Studies and Researches on Military Projects concerning «NATO - FORTIFICATION - TOP SECRET», with Registration Number: 1947 - F.589.6/76033-S.2092.

He is a founding member of the journalistic union, titled: "European Union of Journalists for Environment and Life Quality".

As a researcher he has been assigned to or participated in numerous geotechnical and hydrogeotechnical studies, for several Engineering private companies such as "Mettalleftiki LTD", "SUMAR Co LTD", "Philippides and Co Marbles", "INTERAMERICAN Insurance Co", "JACOB-SUCHARD/PAVLIDES", "KALOGIANNIS DISTILERY CO", "GEOEREVNA - OTM-LTD", "HYDROTECHNIKI, CYPRUS", "SOLAB labs", "DECADE INTERNATIONAL DEVELOPMENT LTD-MINING", "KRAFT GENERAL FOODS S.A.", "A.G. PETZETAKIS S.A.", "VASSILOPOULOS SUPER MARKETS S.A.", "AKTEA GROUP", "OSSIOS PATAPIOS Monastery", "PROPHET ELIAS of VILLIA Monastery", "THEOMITOR Monastery", "Group of Companies of Foundation F. Fotiades", "Topiotechniki Ltd.", "Cyprus Brewery of Karlsberg", etc. As well as

public sector corporations: Ministry of Public Works", Ministry of Agriculture, Ministry of Industry - Research and technology, Ministry of Culture, "PERPA", "Prefecture of East Attica", "Prefecture of Thessalia", "Prefecture of Sterea Ellada", "Prefecture of Chalkidiki", "Prefecture of Lefkada", "Greek Railways Organization - O.S.E. & ERGA OSE S.A.", "EGNATIA ODOS A.E.", "Hellenic Bank of Agriculture", "Prefecture of Kefallinia", "Prefecture of Ahaia", "County of Svoronaton", "County of Komotini", "Municipality of Livadia", "Municipality of Mandra", "Municipality of Cyclades", "Municipality of Krieza", "Municipality of Kallithea", "Municipality of Handrinou", "Municipality of Kefalinos", "Municipality of Agios Stefanos - Attika", "Municipality of Istiaea", "Municipality of Avlona - Attika", "Municipality of Andros - Cyclades", "Municipality of Paiania - Attika", "Municipality of Spata - Attika", "9th Council of Istiaea Eboiea", "ATTIKO METRO S.A. as Geotechnical engineering Consultant", "OLYMPIC GAMES ATHENS 2004 as Geotechnical engineering Consultant", etc.

Also, since 1984 he has been cooperating with several big technical/engineering offices specialised in specific foundation cases, soil & rock mechanics, slope stability problems of large masses, geotechnical investigation of the Underground, dams, tunnels, suitability of building stones and aggregates. (Concrete, Railway ballast & Skid Resistance Road Aggregates) as well as issues of management of underground-surface water resources and the environment using G.I.S. He has also been exclusive geotechnical engineering consultant of ATTIKO METRO S.A. for the Design and Calculations of Anchored piled Retaining Walls, 19,45 m deep, of Agios Antonios Metro Station at Peristeri - Attica. Furthermore he has been geotechnical engineering consultant of both EGNATIA ODOS S.A. and ERGOSE S.A. for the design of large scale motorway and railway projects and underground works, as foundation of bridges, tunnels and protection and stabilization of slopes from landslides. Furthermore, he has also been the exclusive geotechnical engineering consultant of OLYMPIC GAMES ATHENS 2004 for the execution and the design of the geotechnical investigation and foundation engineering aspects for the construction of the Marathon Olympic rowing game centre roads at Schinias - Attica/Greece. Finally, during 2009 - 2011, he was the exclusive geotechnical engineering consultant (via his company Geodomisi Ltd) for the planning and construction of the biggest Greek natural gas fired Combined Cycle Power Plant (CCGT) Project, developed and owned by the Joint Venture between the Greek Public Power Corporation

(PPC) and Steel Production Incorporated Industry «HALYVOURGIKI S.A.». In this project he was cooperating and working along with the general Energy Project Consultant «Mott MacDonald Limited».

Finally, all the studies & projects conducted are listed in the table presented here: <http://www.geodomisi.com/en/index.php/executed-projects>.

SCIENTIFIC ACTIVITIES

Since 1981, participated in the below mentioned research projects, both in the University of Newcastle Upon Tyne / England and in the National Technical University of Athens / Greece:

1. "Determination of the geotechnical / engineering geological properties of both unsound dolerite or "Woodhead" and fresh dolerite samples taken from the whin sill Northumberland". University of Newcastle Upon Tyne.
2. "Geotechnical and Hydrogeological investigation of the cliffs, located north to the Tyne river discharge for the development of the collingwood centre project", Newcastle University.
3. "Discussion of the geological factors influencing the design and execution of the Mangla dam project in Pakistan. Criticism of the engineering geological assessments and decisions taken for the project". Newcastle University.
4. "The hydrogeology of the English chalk and the evidence for regional variations in aquifer properties", University of Newcastle.
5. "Stability analysis of an embankment dam using Bishop-Morgenstern method and simplified Bishop analysis" University of Newcastle.
6. "Appraisal of seepage under dams by using flownets constructed by electrical analogue technique", University of Newcastle.
7. "Planning, specification and costing of a site investigation". University of Newcastle.

8. "Guide-lines for Design of an oil storage tank foundation", University of Newcastle.
9. Piled foundation design of a conference centre 60 m X 40 m estimating the factor of safety and settlement", University of Newcastle.
10. "Measurement of soil permeability using the Casagrande type stand-pipe piezometer and Bishop twin tube piezometer", University of Newcastle.
11. "Hydrogeological study of the bay area at Agrilion - Perahora, Korinthia, National Technical University of Athens, Research Programme.
12. "Underground water resources study in the city of Kalamata", Assigned to the project by the Organisation of Earthquake Protection. National Technical University of Athens.
13. "Research on underground water resources in the island of Kefallinia", National Technical University of Athens, Research Programme.
14. "Study of the existing status of underground water exploitation at Nea Peramos, Kavala, in connection to its quality deterioration", National Technical University of Athens, Research Programme.
15. "Comprehensive computerized system of the management of both surfacial and underground water resources of Attica County". Original Study using Geographical Information System (G.I.S.).
16. "Selection of controlled sites for Disposal of Solid Toxic Wastes and Sludges in the region of south Greece". ENVIREG PROGRAM. E.E.C. / M.E.P.P.P.W. (MISISTRY OF PUBLIC WORKS) /F.E.D.E.R. CO-FINANCIERS.

ACADEMIC ACTIVITY

SHORT & EXTENDED CURRICULUM VITAE of Dr. CONSTANTINE J SACHPAZIS.

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Since 1984 to 1986, he had assisted the laboratory exercises of the Engineers of the Faculty of Mining Engineers and Metallurgy of the National Technical University of Athens.

In 30-10-1989 he was unanimously recommended for the position of lecturer at the section of Engineering Geology at the University of Patras.

Since January 23, 1989 to September 9, 1989 he supervised the dissertation of the civil engineer, Ourania Mesimeri, with the title: "Influence of the Geological Structure on a Civil Engineer's Project in the area of North Imittos - Athens" National Technical University of Athens. This was done upon recommendation by the Associate Professor of the National Technical University of Athens, Dr. Aliko Livaditi.

Since June 1989, to the beginning of 1990, he supervised George Simos, PH.D. thesis on the field of Engineering Geology. Aristotle University of Thessaloniki.

Since December 1990 to April 1991, he supervised the Diploma thesis of the Civil Engineers G. Boutsikos and G. Mortzos, with the title: "Geotechnical and Geological Investigation in the Areas of Chalandri - Papagos - Ag. Paraskevi, Athens", National Technical University of Athens.

Since June 1991 to March 1992, he supervised the Diploma thesis of the Mine Engineer and Metallurgist, B. Filippis, on the issue of: "Study of the Physical and Mechanical Characteristics of Flysch, TITAN quarry, Patras, and Investigation of the slope stability of this location", National Technical University of Athens.

He has taught in specific subsidised seminars to qualified Engineers, organised by the Technical Chamber of Greece and the E.U..

On 18 December 2002 he was elected unanimously, by an academic committee, in the level of Associate Professor in the field of Geotechnical Engineering, in the Sector of Geotechnical and Mining Engineering, in the Department of Geotechnology and Environmental Engineering of the Faculty of Technological Applications, of the Technological Educational Institute of Western Macedonia, Greece, according to the F.D.Y./1.6/313/18.2.2003 action of the Institution, and

he was positioned according to the OFFICIAL JOURNAL OF THE HELLENIC REPUBLIC Nr. 194/14-8-2003. In the 05-9-2003, he was put under oath and undertook officially his academic service. During academic years 2005-2006 and 2006-2007 he was elected unanimously as Director of the Sector of Geotechnical and Mining Engineering in the Department of Geotechnology and Environmental Engineering.

As an Associate Professor of Geotechnical Engineering in the Department of Geotechnology and Environmental Engineering he teaches three subjects in the fifth and sixth half-year semesters, concretely: a) Soil Mechanics I (Theory, Exercises and Laboratory), b) Geotechnical Engineering for Tunnels and Dams (Theory, Exercises and Laboratory), and c) Soil Mechanics II and Rock Mechanics (Theory, Exercises and Laboratory) with Computer Aided Geotechnical Engineering Design & Analysis.

During the academic years 2005-2006, 2006-2007 and 2007-2008 he was elected as Vice-President of the Department of Geotechnology and Environmental Engineering.

Additionally, during three successive academic years 2005-2006, 2006-2007 and 2007-2008 he was elected unanimously as Director of the Sector of Geotechnical and Mining Engineering in the Department of Geotechnology and Environmental Engineering.

Moreover as an Associate Professor he has supervised and directed many Diploma Dissertations of students in the Department of Geotechnology and Environmental Engineering.

During academic years 2003 to 2007 he was the academic person in charge and representative of the Faculty of Technological Applications of the Technological Educational Institute of Western Macedonia, for the European program of mobility and exchange of professors and students «ERASMUS», with the collaborating European Institutions: a) Technical University Bochum - Germany, v) University Lille - France, and c) Technical University of «Politecnico do Porto» - Portugal.

On 18th of June 2008 he was elected by a committee of professors and students as President (Head) of the Department of Geotechnology and Environmental Engineering, for the academic years 2008-2009 until 2010-2011.

On 17th of June 2008 he was appointed as Professor of the Greek Open University for Postgraduate students in order to give lectures and supervise their M.Sc. Dissertations in the field of Geo-environmental Engineering.

On 20th of June 2014 he was appointed as Professor at the Greek Open University for Postgraduate students in order to supervise their M.Sc. Dissertations in the Postgraduate Course M.Sc. in Earthquake Engineering and Seismic-Resistant Structures.

Finally he is the author of four (4) academic books, titled: a) «Introduction to Soil Mechanics I», b) «Remote Sensing and photogeology. A tool to route selection of large highways and roads», c) «Introduction to Soil Mechanics II and Rock Mechanics», and d) «Geotechnical Engineering for Dams and Tunnels». He has also written the following course lectures notes: 1) Clay Mineralogy, 2) Soil Classification, 3) Phase Relations 4) Soil Compaction, 5) Permeability 6) Shear strength of soils, 7) Consolidation, 8) Lateral Earth Pressures, 9) Geotechnical Site Investigation, and 10) Introduction to Geotechnical Engineering.

He has also been a Reviewer of Scientific Articles and Publications for the Netherlands / International Publishing Organization «Elsevier», as well as for the International Journal of Sustainable Development & World Ecology, for the Bio- and Medical Informatics and Cybernetics: BMIC 2011, for the International Journal of Physical Sciences, the Journal of Civil Engineering and Construction Technology (JCECT), and the International Publishing Organization «Springer». It is just indicatively mentioned the «ENGE02164», «HAZMAT-D-10-00508», «HAZMAT-D-10-00834», «HAZMAT-D-10-01744», «HAZMAT-D-10-02109», «HAZMAT-D-10-04301», «HAZMAT-D-10-05748», «HAZMAT-D-11-00318», «NHAZ-D-13-00383», «Application of Geophysical and Geotechnical Investigations in Engineering Site Evaluation», «970#paper-review» Invitations to review. Additionally, he was a Reviewer in the 5th International Symposium on Bio- and Medical Informatics and Cybernetics: BMIC 2011 and in the 3rd

International Conference on Civil Engineering and Urban Planning (CEUP 2014), held in Wuhan, China, June 20-22, 2014.

ACADEMIC ADMINISTRATIVE POSITIONS.

- Director of the Sector of Geotechnical and Mining Engineering in the Department of Geotechnology and Environmental Engineering (2005 - 2008).
- Vice-President (Head) of the Department of Geotechnology and Environmental Engineering (2005 - 2008).
- President (Head) of the Department of Geotechnology and Environmental Engineering (18/06/2008 – 01/09/2010).
- President (Head) of the Department of Geotechnology and Environmental Engineering (01/09/2010 – 01/09/2012).
- Professor (S.E.P.) for Postgraduates studies of the Greek Open University (17/06/2008 - Today).

AWARDS / CERTIFICATES / DISTINCTIONS.

- 2013: ICE Student Prize Winner Award. The Institution of Civil Engineers awarded him the "2013 ICE Student Prize" for his University. The prize is awarded to the best civil engineering student at each participating universities and is based not only on examination performance but also takes into account course work and ability in civil engineering design.
- 2013: Top student distinction on 19.07.2013 in his final year of studies in the BEng (Hons) Civil Engineering course, University of Portsmouth, U.K.. Ranking place: Top student distinction because he achieved the highest overall grade in the cohort of 120 classmates.
- 2012: Second student distinction on 14.08.2012 in his pre-final year of studies in the BEng (Hons) Civil Engineering course, University of Portsmouth, U.K.. Ranking place: Second student distinction because he achieved the second overall grade in the cohort of 128 classmates.
- 1984-1986: Scholarship from the Hellenic State Scholarship Foundation (IKY) for Ph.D. research.

INDUSTRIAL EXPERT.

SHORT & EXTENDED CURRICULUM VITAE of Dr. CONSTANTINE J SACHPAZIS.

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- He has served as an Industrial Expert, appointed by the Hellenic Republic Ministry of Education, Lifelong Learning and Religious Affairs, for the evaluation and assessment of research proposals submitted to the Inter-State Programme for Research, Innovation & Technological Development between Greece and Israel.

OFFICIAL REPRESENTATIVE OF THE ITA-AITES.

- He has served as Official representative of the International Tunnelling Association (ITA) for Greece for 2014, in the Sector of “Conventional Tunnelling” – Working Group 19 (WG 19).

OFFICIAL REPRESENTATIVE OF THE ISSMGE.

- He has served as Official representative of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), for Greece for 2015, in the Technical Committees: JTC1 Natural Slopes and Landslides TC303, Coastal and River Disaster Mitigation and Rehabilitation and JTC2 Representation of Geo-Engineering Data.

SCIENTIFIC PUBLICATIONS.

1. A published paper on: "The Engineering Geological properties of the Triassic Dolomite of the Stefani area (Greece) in relation to its suitability in the skid resistant pavement surface construction". Published in the Bulletin of the International Association of Engineering Geology. I.A.E.G., 1986. (available at <http://www.springerlink.com/content/r4376058r4044330/> or http://www.geodomisi.com/en/files/Publications/Academic/1-C_Sachpazis_SKID_RESISTANT_DOLOMITE_Lt.pdf).
2. A published paper on: "The effects of Contact Metamorphism on the Engineering geological Properties of the Great Limestone in Northumberland, England". 1986. Published in the Bulletin of the Public Works Research Center. No. 3-4 / 1986. (available at http://www.geodomisi.com/en/files/Publications/Academic/2b-C_Sachpazis_EFFECTS_GREAT_LIMESTONE_UK_En_Ver_Lt.pdf).

3. A published paper on: "The influence of the Contact Metamorphism on the Engineering Geological Behaviour of the Great Limestone Aggregates, from Northumberland, England". 1988. Published in the Bulletin of Mining and Metallurgical Annals. Greece. 1988. No. 68. (available at http://www.geodomisi.com/en/files/Publications/Academic/3-C_Sachpazis_Influence_on_Great_Limestone_Aggregates.pdf).
4. A published paper on: "Geotechnical Description, Classification and Properties of Carbonate and Calcareous Rock Masses. Their Recording Procedure". Published in the Bulletin of Mining and Metallurgical Annals. Greece. December 1986. No. 62. (available at http://www.geodomisi.com/en/files/Publications/Academic/4-C%20Sachpazis_Geotechnical_Properties_of_Carbonate_Rocks_Lt.pdf).
5. A published paper on: "Quick Spectrophotometric Method for the Determination of Sulphates in Concrete Aggregates and Foundation Soils". 1986. Published in the Bulletin of Mining and Metallurgical Annals. Greece. June 1986. No. 61. (available at http://www.geodomisi.com/en/files/Publications/Academic/5-C_Sachpazis_Quick_Spectrophotometric_Method.pdf).
6. A published paper on: "Geotechnical Site Investigation Methodology for Foundation of Structures". 1988. Published in the Bulletin of the Public Works Research Centre. Edition January - June 1988. (available at http://www.geodomisi.com/en/files/Publications/Academic/6-C%20Sachpazis_GEOTECHNICAL%20SITE%20INVESTIGATION.pdf).
7. A published paper on: "Engineering Geological Properties of Prasinite Rock from Daskalio (Lavrium - Attiki). Suitability as Skid - Resistant Road Aggregate". Under publication in the Bulletin of the Technical Annals. Greece.
8. A published paper on: "Building Stones of Ancient Monuments in Attika. Greece. An outline". 1988. Presented in the Symposium of the International Association of Engineering Geology, held in Athens, Greece, 19 - 23 September 1988. Published in the Proceedings of the 1988 International Symposium of I.A.E.G.. Cooperation with Dermetzopoulos, Davi, Mimidis, Perraki, Kazas. (available at http://www.geodomisi.com/en/files/Publications/Academic/8-C_Sachpazis_Building_stones.pdf).

9. A published paper on: "Engineering geological properties of the "Mornos" and "Ska" river natural aggregates, at sites Kastraki and Skala. Their suitability as concrete aggregates." Published in the Bulletin of Public Works Research Centre. Greece. Vol. 101-102, January - June 1989. (available at http://www.geodomisi.com/en/files/Publications/Academic/9-C_Sachpazis_SUITABILITY_OF_MORNOS_AGGREGATES.pdf).
10. A published paper on: "Physico-mechanical properties of Kalamata quarries crushed aggregates. Investigation on their suitability as Portland cement concrete aggregates." Presented on 9th Hellenic Concrete Symposium in Kalamata, held on 14 -16 February 1990. (available at http://www.geodomisi.com/en/files/Publications/Academic/10-C_Sachpazis_Physico-mechanical_properties_of_Kalamata.pdf).
11. A published paper on: "Engineering Geological mapping methodology for underground excavations." Published in the Bulletin of Mining and Metallurgical Annals, No 75. Greece. 1991. (available at <http://www.geodomisi.com/en/files/Publications/Academic/11-C%20Sachpazis%20-%20Engineering%20Geological%20mapping%20methodology.pdf>).
12. A published paper on: "Correlating Schmidt hardness with Compressive Strength and Young's Modulus of Carbonate Rocks." Published in the Bulletin of the International Association of Engineering Geology, No 42 Paris. October 1990. (available at http://www.geodomisi.com/en/files/Publications/Academic/12-C.%20Sachpazis%20-%20Correlating%20Schmidt%20hardness_Lt.pdf).
13. A published paper on: "Aerial Photographs and Photogeology. Their contribution on Preliminary stage of Highway Design". Published by Technical Board of Greece. 1990. Lecture, under the same topic, given to Surveyor Engineers, in T.B.G., on 03 - Dec - 1990.
14. A published paper on: "Liquefaction analysis of Kifisos River Sandy Alluvial deposits. PC software Development". Published in the bulletin of Engineering Geological Scientific Issues 1992. (available at http://www.geodomisi.com/en/files/Publications/Academic/14-C_Sachpazis_Liquefaction_analysis_of_Kifisos.pdf).
15. A published paper on: "Slope Stability Problems in Messochori, Karpathos island". Published in the Proceedings of 2nd Conference of the Bulletin of

Hellenic Geographical Society. 1989. (available at http://www.geodomisi.com/en/files/Publications/Academic/15-C_Sachpazis_Slope_stability_in_Karpathos_Lt.pdf).

16. A published paper on: "Geotechnical and Engineering Geological Conditions of the foundation area of the building offices of the Holly Metropolis of Megara and Salamina. Cause of damage of the building". Published in the Bulletin of Engineering Geological Scientific Issues. 1993.
17. A published paper on: "Investigation of the slope stability of the wider area of Almiri - (Katakali). Methods of preventing and restraining the failures. Presented in the 3rd Conference of the Hellenic Geographical Association, 1993. (available at http://www.geodomisi.com/en/files/Publications/Academic/17-C_Sachpazis_Slope_Stability_in_Katakali.pdf).
18. A published paper on: "Geomorphological investigation of the drainage network and calculation of the peak storm runoff (Qp) and sediment yield of Sarantopotamos and Katsimidi streams". Published and Presented in the Symposium of the International Association of Engineering Geology, on 23 to 27 June 1997. Cooperation with A. Livaditi and G. Livaditis. (available at http://books.google.com/books?id=flmYmDhVoC&pg=PR19&dq=Sachpazis&source=web&ots=21w753XFED&sig=3YCS6Rmi-dYWadDdIMzBoEGE4&hl=en&sa=X&oi=book_result&resnum=6&ct=result#PPA31M1 or http://www.geodomisi.com/en/files/Publications/Academic/18-C%20Sachpazis_Sarantopotamos-Katsimidi%20streams.pdf).
19. A published paper on: "Geomorphological investigation of the drainage networks and calculation of the peak storm runoff of Skarmaga and Agia Triada streams, Attiki - Greece". Published in Volume 5 - 2000 of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). Cooperation with O. G. Manoliadis. 2000. (available at http://www.geodomisi.com/en/files/Publications/Academic/19-C%20Sachpazis_Skarmaga_Agia%20Triada%20streams.pdf).
20. A published paper on: "Geotechnical Aspects of a Landfill Site Selection Study in North Evia -Greece". Published in Volume 6 - 2001 of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). Cooperation with O. G. Manoliadis. 2001. (available at http://www.geodomisi.com/en/files/Publications/Academic/20-C%20Sachpazis%20_Landfill%20site%20Selection%20Study%20in%20Evoia.pdf).

21. A published paper on: "The Role of Terrain Characteristics in Flood Management, Attica, Greece". Published in Volume 11 - Paper 13, Posted October 28, 2003, of the Electronic Journal of the International Association for Environmental Hydrology - ISSN 1058-3912. Cooperation with O. G. Manoliadis. 2003. (available at <http://www.geodomisi.com/en/files/Publications/Academic/21-C%20Sachpazis%20FLOOD%20MANAGEMENT.pdf>).
22. A published paper on: "Monitoring and Correlating geotechnical Engineering Properties and Degree of Metamorphism in a four-stage alteration process passing from pure Limestone to pure Marble". Published in Volume 9, Bundle B - 2004 of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). 2004. (available at http://www.geodomisi.com/en/files/Publications/Academic/22-C%20Sachpazis_Degree%20of%20Metamorphism.pdf).
23. A published paper on: «A Hydrogeotechnical Integrated System for Water Resources Management of Attica – Greece». Presented in the 6th International Conference of the European Water Resources Association (EWRA2005), held in Menton (France). Cooperation with Manoliadis Odysseus, Baronos Athina, and Tsaprailli Chrysanthy. 2005. (available at http://www.geodomisi.com/en/files/Publications/Academic/23-C%20Sachpazis%20EWRA2005_A%20Hydrogeotechnical%20Integrated%20System.pdf).
24. A published paper on: "Soil liquefaction potential assessment of a coastal foundation ground and its suitability for a CCGT Power Plant construction in Greece". Published in Volume 16 – 2011, Bund. G of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). (available at http://www.geodomisi.com/en/files/Publications/Academic/24C_Sachpazis_Soil%20liquefaction%20CCGT%20Power%20Plant.pdf).
25. A published paper on: "Detailed Slope Stability Analysis and Assessment of the Original Carsington Earth Embankment Dam Failure in the UK". Published in Volume 18 – 2013, Bund. Z of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). (available at <http://www.ejge.com/2013/Ppr2013.515mar.pdf> or <http://www.geodomisi.com/en/files/Publications/Academic/25-C%20Sachpazis%20-%20Slope%20stability%20of%20Carsington%20Dam%20Failure.pdf>).

26. A published paper on: "Experimental Conceptualisation of the Flow Net system construction inside the body of homogeneous Earth Embankment Dams". Published in Volume 19 – 2014, Bund. J of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). (available at <http://www.ejge.com/2014/Ppr2014.201mar.pdf> or <http://www.geodomisi.com/en/files/Publications/Academic/26-C%20Sachpazis%20-%20Earth%20Embankment%20Dams%20and%20Flow%20Nets.pdf>).
27. A published paper on: "Trends and needs for the prediction of the inelastic capacity of steel members considering the differences in seismic loading conditions". Published in 8th National Conference of Steel Structures. Tripoli, 3-5 October, Greece. CD, Paper 021. Cooperation with Anastasiadis A., Voghiatzis T.. 2014. (available at http://www.academia.edu/8793769/Trends_and_needs_for_the_prediction_of_the_inelastic_capacity_of_steel_members_considering_the_differences_in_seismic_loading_conditions OR http://www.teepelop.gr/wp-content/uploads/2013/11/ProgrSinedr_Trip2-4.10.14.pdf).
28. A published paper on: "Probabilistic Slope Stability Evaluation for the New Railway Embankment in Ethiopia" Published in Volume Vol. 21 [2016], Bund. 11, pp 4247-4272, of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). Co-Authored with: Eleyas Assefa, Dr. Li Jian Lin, Dr. Deng Hua Feng, Dr. Sun Xu Shu, Dr. Anthimos S. Anastasiadis. (Available at [ejge.com \(http://www.ejge.com/2016/Ppr2016.0362mc.pdf](http://www.ejge.com/2016/Ppr2016.0362mc.pdf) or http://www.geodomisi.com/en/files/Publications/Academic/28-C%20Sachpazis_Eleyas_Probabilistic%20Slope%20Stability%20Evaluation%20for%20the%20New%20Railway%20Embankment%20in%20Ethiopia.pdf).
29. A published paper on: "Discussion on the Analysis, Prevention and Mitigation Measures of Slope Instability Problems: A case of Ethiopian Railways" Published in Volume Vol. 21 [2016], Bund. 12, pp 4531-4547, of the Electronic Journal of Geotechnical Engineering (E.J.G.E.). Co-Authored with: Eleyas Assefa, Dr. Li Jian Lin, Dr. Deng Hua Feng, Dr. Sun Xu Shu, Dr. Anthimos S. Anastasiadis. (Available at [ejge.com \(http://www.ejge.com/2016/Ppr2016.0388md.pdf](http://www.ejge.com/2016/Ppr2016.0388md.pdf) or http://www.geodomisi.com/en/files/Publications/Academic/29-Discussion%20on%20the%20Analysis%20Prevention%20and%20Mitigation%20Measures%20of%20Slope%20Instability%20Problems_A%20case%20of%20Ethiopian%20Railways_Ppr2016.0388ma.pdf).
30. A published paper on: "Slope Stability Evaluation for the New Railway Embankment using Stochastic and Finite Element Method" Published in Volume Vol. 22 [2017], Bund. 01, pp 33-49, of the Electronic Journal of

Geotechnical Engineering (E.J.G.E.). Co-Authored with: Eleyas Assefa, Dr. Li Jian Lin, Dr. Deng Hua Feng, Dr. Sun Xu Shu. (Available at [ejge.com](http://www.ejge.com) (<http://www.ejge.com/2017/Ppr2017.0005ma.pdf> or

http://www.geodomisi.com/en/files/Publications/Academic/30-Slope%20Stability%20Evaluation%20for%20the%20New%20Railway%20Embankment%20Using%20Stochastic%20&%20Finite%20Element%20Method_Ppr2017.0005ma.pdf).

* All Academic Publications are available and shown at: <http://www.geodomisi.com/en/index.php/2013-11-09-16-28-43?id=87>.

CITATIONS.

1. AU: Kahraman S.
TI: Evaluation of simple methods for assessing the uniaxial compressive strength of rock. SO: INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES. VOL.38 [N7],PG:981-994,2001 OCT, GENUINE-ARTICLE-NO=506PZ, RN= 53. RF: SACHPAZIS CI,1990,V42,P75 RJ: B INT ASS ENG GEOL.
2. AU: Goudie AS.
TI: A comparison of the relative resistance of limestones to frost and salt weathering. SO: PERMAFROST AND PERIGLACIAL PROCESSES. VOL.10 [N4],PG:309-316,1999 OCT-DEC, GENUINE-ARTICLE-NO=281TX, RN= 0029. RF: SACHPAZIS CI,1990,V42,P75 RJ: B INT ASS ENG GEOL.
3. AU: Aggystalis G.P., Alivizatos A.S., Stamoulis D.C., Stournaras G.
TI: Correlating uniaxial compressive strength with Schmidt hardness, Point Load Index, Young' s modulus and mineralogy of gabbros and basalts (Northern Greece). SO: BULLETIN OF THE INTERNATIONAL ASSOCIATION OF ENGINEERING GEOLOGY No. 54, PG:3-12,1996 OCT. RF: SACHPAZIS CI,1990,V42,P75 RJ: B INT ASS ENG GEOL.
4. Authors: Goudie-AS.
Title: Experimental Salt Weathering of Limestones in Relation to Rock Properties. Full source: EARTH SURFACE PROCESSES AND LANDFORMS 1999, Vol 24, Iss 8, pp 715-724. Language: English Document type: Article. IDS/Book No.: 226MQ. No. Related Records: 6. No. cited references: 18. Cited references: SACHPAZIS-CI-1990-B-INT-ASS-ENG-GEOLOG-V42-P75.

5. Authors: Latham-JP Lu-P.

Title: Development of an Assessment System for the Blastability of Rock Masses. Full source: INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES 1999, Vol 36, Iss 1, pp 41-55. Language: English. Document type: Article. IDS/Book No.: 180NJ No. Related Records: 8. No. cited references: 50. Cited references: SACHPAZIS-CI-1990-B-IAEG-V42-P75.

6. Authors: Adil BÉNAL, K.Erñin KASAPOPLU, Candan GΦKHΕOΠLU.

Hacettepe úniversitesi, Mόhendislik Fakόltesi, Jeoloji Mόhendisliđi Bϕlómó, 06532 Beytepe, ANKARA. TURKEY. Title: Variation of some physical and mechanical parameters of the volcanosedimentary rocks around Eskílehír Yazúlúkaya under freezing thawing effect. Full source: Bulletin of Earth Sciences Application and Research Centre of Hacettepe University. Hacettepe úniversitesi Yerbilimleri Uygulama ve Araítúrma Merkezi Bólteni, Yerbilimleri, 19 (1997), p.p. 17-40. Language: Turkish. English summary. Document type: Article Cited references: Sachpazis, C.I., 1990. Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks. 1990-B-IAEG-V42-P75.

7. Authors: K. Vatalis, O. Manoliadis.

Department of Geotechnology and Environmental Engineering. Technological Educational Institute of West Macedonia. Koila 50100, Kozani, Greece. Title: A two-level multicriteria DSS for Landfill Site Selection Using GIS: Case Study in Western Macedonia, Greece. Full source: GIDA. Journal of Geographic Information and Decision Analysis. 2002, Vol. 6, No. 1, pp. 49-56. Language: English Document type: Article. Cited references: Manoliadis and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece In Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.

8. Authors: Rima Chatterjee, Manoj Mukhopadhyay.

Indian School of Mines, Dhanbad 826004, India. Title: Petrophysical and geomechanical properties of rocks from the oilfields of the Krishna-Godavari and Cauvery Basins, India. Full source: Bulletin of Engineering Geology and the Environment. Publisher: Springer-Verlag Heidelberg. Issue: Volume 61, Number 2. Date: May 2002. Pages: 169 - 178. ISSN: 1435-9529 (Paper) 1435-9537 (Online). DOI: 10.1007/s100640100137. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-

V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

9. Authors: Ismail Dincer, Altay Acar, Ibrahim Cobanolu and Yusuf Uras.
Department of Geological Engineering, Faculty of Engineering-Architecture, Cukurova University, 01330 Adana, Turkey. Title: Correlation between Schmidt hardness, uniaxial compressive strength and Young's modulus for andesites, basalts and tuffs. Full source: Bulletin of Engineering Geology and the Environment. Publisher: Springer-Verlag Heidelberg. Issue: Volume 63, Number 2. Date: June 2004. Pages: 141 - 148. ISSN: 1435-9529 (Paper) 1435-9537 (Online). DOI: 10.1007/s10064-004-0230-0. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
10. Authors: Kivanc Zorlu, Candan Gokceoglu and Harun Sonmez.
(1) Department of Geological Engineering, Mersin University, 33342 Ciftlikkoy, Mersin, Turkey, and (2) Department of Geological Engineering, Applied Geology Division, Hacettepe University, 06532 Beytepe, Ankara, Turkey. Title: Prediction of the Uniaxial Compressive Strength of a Greywacke by Fuzzy Inference System. Full source: Engineering Geology for Infrastructure Planning in Europe: A European Perspective. Engineering Geological Methods. Methods of (Digital) Characterisation of the Surface. Publisher: Springer-Verlag Heidelberg. ISSN: 0930-0317. Subject: Environmental Sciences, Geosciences, Physics and Astronomy. Volume 104 / 2004. Editors: Robert Hack, Rafiq Azzam, Robert Charlier. ISBN: 3-540-21075-X. DOI: 10.1007/b93922. Chapter: pp. 203 - 210. Online Date: April 2004. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
11. Authors: Skilodimou H.; Livaditis G.; Bathrellos G.; Verikiou-Papaspiridakou E..
(1) National and Capodistrian University of Athens, Greece. Title: Investigating the Flooding Events of the Urban Regions of Glyfada and Voula, Attica, Greece: A Contribution to Urban Geomorphology. Full source: Geografiska Annaler: Series A, Physical Geography, September 2003, vol. 85, no. 2, pp. 197-204(8). Publisher: Blackwell Publishing on behalf of the Swedish Society for Anthropology and Geography. Document Type:

Research article ISSN: 0435-3676. DOI (article): 10.1111/1468-0459.00198. SICI (online): 0435-3676(20030901)85:2L.197;1. Language: English. Cited references: Alexouli-Livaditi, A., Livaditis, G. and Sachpazis, C., 1997 - Symposium of the International Association of Engineering Geology, on 23 to 27 June 1997, Title: «Geomorphological investigation of the drainage network and calculation of the peak storm runoff (Qp) and sediment yield of Sarantopotamos and Katsimidi streams».

12. Authors: H. Basarir, M. Kumral A. Ozsan.

Title: «Predicting uniaxial compressive strength of rocks from simple test methods». Full source: ROCKMEC 2004-VIIth Regional Rock Mechanics Symposium, 2004, Sivas, Turkey, organized by Cumhuriyet University Mining Engineering Department and the Turkish National Society for Rock Mechanics. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

13. Authors: H. Sonmez, C. Gokceoglu, K.E. Kasapoglu, E. Tuncay & K. Zorlu.

Title: «An empirical equation for estimating elasticity modulus of intact rock». Full source: ROCKMEC 2004-VIIth Regional Rock Mechanics Symposium, 2004, Sivas, Turkey, organized by Cumhuriyet University Mining Engineering Department and the Turkish National Society for Rock Mechanics. Cited references: SACHPAZIS-C.I.- 1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

14. Authors: Mukesh M.D. and G. L. Sivakumar Babu (2003).

Title: «GIS Applications in Locating Landfill Sites». Full source: Indian Institute of Technology Publications. Cited references: Manoliadis and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece In Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.

15. Authors: Lange, Clifford R.; Lange, Stefanie R. (2003).

Title: «Groundwater Quality». Available at:

<http://www.ingentaconnect.com/content/wef/wer/2003/00000075/a00106s1>.

Full Source: [Water Environment Research](#), 2003 Literature Review, pp. 1417-1544(128), Publisher: [Water Environment Federation](#). Cited references: Manoliadis, O. G., and Sachpazis, Volume 6 - 2001 of the Electronic Journal

- of Geotechnical Engineering (E.J.G.E.). «Geotechnical Aspects of a Landfill Site Selection Study in North Evia -Greece».
16. Authors: Mukesh M.D. (2004).
Title: «Locating Landfill Sites using GIS». Available at: <http://www.fgr.gt/tyu/mukesh>. Cited references: Manoliadis and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece In Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
17. Authors: M. Fener, S. Kahraman, A. Bilgil and O. Gunaydin1. (2005).
Title: «A Comparative Evaluation of Indirect Methods to Estimate the Compressive Strength of Rocks». Available at: <http://www.springerlink.com/app/home/contribution.asp?wasp=5f69257e76fb45a4838bd641b2ce583c&referrer=parent&backto=issue,9,17;journal,1,34;linkingpublicationresults,1:101578,1>. Full source: Rock Mechanics and Rock Engineering. Publisher: Springer Verlag Wien. ISSN: 0723-2632 (Paper) 1434-453X (Online). DOI: 10.1007/s00603-005-0061-8. Issue: Online First. Published online: 2 June 2005. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young’s Modulus of carbonate rocks».
18. Authors: Third Expert Group Meeting, by Prof. M. El Aref (Director of Cairo-BCRC). Preparation of a set of tools for the selection, design and operation of hazardous waste landfills in hyper-dry areas. Cairo, 23-26 May 2005. BASEL CONVENTION REGIONAL CENTER FOR TRAINING AND TECHNOLOGY TRANSFER FOR THE ARAB STATES. (2005).
Title: «Guidelines for the site-selection and environmental impact assessment (E.I.A.) minimum requirements for hazardous waste disposal by landfilling in arid regions». Available at: http://www.basel.int/centers/proj_activ/stp_projects/12-02e.pdf. Published: 07-May-2005 01:47 378k. Cited references: Manoliadis, O. G., and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
19. Authors: Energetics Pty Ltd., Dr. Mary Stewart, e-mail: stewartm@energetics.com.au, Telephone: +61 2 9929 3911, Facsimile: +61 2 9929 3922, Postal address: P O Box 294, North Sydney, NSW 2059,

- SYDNEY - AUSTRALIA. Title: «Productivity Commission Comment on Waste Generation & Resource Efficiency Inquiry». Published: January 2006. Available at: <http://www.pc.gov.au/inquiry/waste/subs/sub009.pdf>. Cited references: Manoliadis, O. G., and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
20. Authors: Camdan Gokceoglu. (1996). RU. Jeoloji Muh.. Bol. Beytepe, Ankara.
Title: «Schmidt sertlik cekici kullanilarak tahmin edilen tek eksenli sikisma dayanimi verilerinin guvenilirliigi uzerine bir degerlendirme». Available at: http://www.jmo.org.tr/resimler/ekler/77540c7bcb8db31_ek.pdf?dergi=JEOLAJ%C4%B0%20M%C3%9CHEND%C4%B0SL%C4%B0%C4%9E%C4%B0%20DERG%C4%B0S%C4%B0. Full source: JEOLOJI MUHENDISLIGI, Sayi 48. Published: May 1996. Language: Turkish. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
21. Authors: N. Bilgin, T. Dincer, H. Copur. (2002). Istanbul Technical University, Mining Engineering Department, 80626, Maslak, Istanbul, Turkey.
Title: «The performance prediction of impact hammers from Schmidt hammer rebound values in Istanbul metro tunnel drivages». Available at: <http://www2.itu.edu.tr/~bilgin/paper04.pdf>. Received 29 October 2001; received in revised form 13 March 2002; accepted 3 April 2002. Full source: Tunnelling and Underground Space Technology 17 (2002) 237–247. 0886-7798/02/\$ - © 2002 Elsevier Science Ltd. PII: S0886-7798Ž02.00009-3. Published: 2002. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
22. Authors: Dr. Faisal I Shalabi. (2007).
Title: «Estimation of rock engineering properties using hardness tests». Available at: <http://ees.elsevier.com/engeo/>. Received 19-September-2006; accepted 3 April 2007. Elsevier / Engineering Geology. Language: English. Document type: Research Paper. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

23. Authors: Rashid M. E-mail: rashid_m@modares.ac.ir. (2006). Israel.

Title - Information: « ۱۴ بهمن ۱۳۸۳ - کنفرانس مهندسی معدن ایران- ۸۳ دانشگاه تربیت مدرس » کاربرد روش های غیرمخرب در انداز هگیری برخی پارامترهای فیزیکی و مکانیکی مار نهایی زاگرس عبدالهادی قزوینیان ۱، علی فتحي * ۲، مسعود رشیدی ۲، منیژه قره چه ۳ ۱- استادیار گروه مکانیک سنگ، بخش مهندسی معدن، دانشگاه تربیت مدرس، تهران ۲- دانشجوی کارشناسی ارشد مکانیک سنگ، «دانشگاه تربیت مدرس، تهران ۳- استادیار، دانشکده علوم اداری، دانشگاه شهید بهشتی، تهران

Available at: <http://www.gsi.ir/Pdf/Mining/6058.pdf>. Published: 2004.

Language: Arabic. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

24. Authors: Candan Gokceoglu, and Kivanc Zorlu. (2002). Department of Geological Engineering, Applied Geology Division, Hacettepe University, Beytepe Ankara 06532, Turkey.

Title: «A fuzzy model to predict the uniaxial compressive strength and the modulus of elasticity of a problematic rock». Available at:

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V2M-4BFP99M-

[1&_coverDate=02%2F29%2F2004&_alid=458753655&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5706&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=4d084321ee0db970b0c7c6d58bb917c](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V2M-4BFP99M-1&_coverDate=02%2F29%2F2004&_alid=458753655&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5706&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=4d084321ee0db970b0c7c6d58bb917c)

[d](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V2M-4BFP99M-1&_coverDate=02%2F29%2F2004&_alid=458753655&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5706&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=4d084321ee0db970b0c7c6d58bb917c). Received 27 February 2003; Revised 28 October 2003; accepted 24 November 2003. Available online 13 January 2004. Full source: Engineering Applications of Artificial Intelligence. Volume 17, Issue 1 , February 2004, Pages 61-72. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

25. Authors: R.M. Goktan, and N. Gunes. (2005). Department of Mining Engineering, Osmangazi University, Eskisehir, Turkey.

Title: «A comparative study of Schmidt hammer testing procedures with reference to rock cutting machine performance prediction». Available at:

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V4W-4FPX2X1-

[1&_coverDate=04%2F30%2F2005&_alid=458752278&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5769&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=f8945bb21b89f24ae8cb18c84fb212cd](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V4W-4FPX2X1-1&_coverDate=04%2F30%2F2005&_alid=458752278&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5769&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=f8945bb21b89f24ae8cb18c84fb212cd).

Accepted 22 December 2004. Available online 16 March 2005. Full source: International Journal of Rock Mechanics and Mining Sciences. Volume 42, Issue 3 , April 2005, Pages 466-472. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

26. Authors: S. Kahraman. (2001). Faculty of Engineering and Architecture, University of Nigde, 5100 Nigde, Turkey.

Title: «Evaluation of simple methods for assessing the uniaxial compressive strength of rock». Available at:

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V4W-43PB64F-3&_coverDate=10%2F31%2F2001&_alid=458768709&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5769&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=970e678c64063e845682d8b7b3f122b3

3. Accepted 13 July 2001 Available online 8 August 2001. Full source: International Journal of Rock Mechanics and Mining Sciences. Volume 38, Issue 7 , October 2001, Pages 981-994. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

27. Authors: S. Kahraman, M. Fener and O. Gunaydin. (2002). Geological Engineering Department, University of Nigde, Nigde, Turkey.

Title: «Predicting the Schmidt hammer values of in-situ intact rock from core sample values». Available at:

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V4W-45KT0MW-2&_user=10&_coverDate=04%2F30%2F2002&_rdoc=1&_fmt=&_orig=search&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=eebe698876d21e35c0c570976de3a9b2

Accepted 27 March 2002. Available online 16 April 2002. Full source: International Journal of Rock Mechanics and Mining Sciences. Volume 39, Issue 3 , April 2002, Pages 395-399. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

28. Authors: M. Karakus, M. Kumral and O. Kilic. (2004). Mining Engineering Department, Inonu University, 44280 Malatya, Turkey.
Title: «Predicting elastic properties of intact rocks from index tests using multiple regression modelling». Available at: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V4W-4DSGW8W-3&_coverDate=02%2F01%2F2005&_alid=458765120&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=5769&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=f39a81b83856441528605a1921edca36. Accepted 6 August 2004. Available online 12 November 2004. Full source: International Journal of Rock Mechanics and Mining Sciences. Volume 42, Issue 2, February 2005, Pages 323-330. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
29. Authors: Kívanc Zorlu, Candan Gokceoglu and Harun Sonmez. (2004). Department of Geological Engineering, Applied Geology Division, Hacettepe University, 06532 Beytepe, Ankara, Turkey.
Title: «Prediction of the Uniaxial Compressive Strength of a Greywacke by Fuzzy Inference System». Available at: <http://www.springerlink.com/content/xap604x5420leb7w/>. Available online April 21, 2004. Full source: Publisher Springer Berlin / Heidelberg. ISSN 0930-0317, Subject: Earth and Environmental Science. Volume 104/2004. Book: Engineering Geology for Infrastructure Planning in Europe, DOI: 10.1007/b93922. ISBN: 978-3-540-21075-7. Pages: 203-210. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
30. Authors: Dinçer Ismail, Acar Altay, Çobanoğlu Ibrahim, Uras Yusuf. (2004). Department of Geological Engineering, Faculty of Engineering-Architecture, Çukurova University, 01330, Adana, Turkey.
Title: «Correlation between Schmidt hardness, uniaxial compressive strength and Young's modulus for andesites, basalts and tuffs». Available at: <http://www.ingentaconnect.com/content/klu/10064/2004/00000063/00000002/art00006#search=%22sachpazis%22>. Available online June 2004. Full source: Bulletin of Engineering Geology and the Environment, Springer.

- Volume 63, Number 2, June 2004, pp. 141-148(8). DOI: 10.1007/s10064-004-0230-0. Language: English. Document type: Research article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
31. Authors: A. S. Goudie. (1999). School of Geography, University of Oxford, Mansfield Road, Oxford OX1 3TB, UK.
Title: «A comparison of the relative resistance of limestones to frost and salt weathering». Available at : [http://dx.doi.org/10.1002/\(SICI\)1099-1530\(199910/12\)10:4<309::AID-PPP330>3.0.CO;2-C](http://dx.doi.org/10.1002/(SICI)1099-1530(199910/12)10:4<309::AID-PPP330>3.0.CO;2-C). Available online 1999. Full source: SO: Permafrost and Periglacial Processes. VL: 10, NO: 4, PG: 309-316, YR: 1999, CP: Copyright © 1999 John Wiley & Sons, Ltd., ON: 1099-1530, PN: 1045-6740, DOI: 10.1002/(SICI)1099-1530(199910/12)10:4<309::AID-PPP330>3.0.CO;2-C. Language: English. Document type: Research article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
32. Authors: A. S. Goudie. (1999). School of Geography, University of Oxford, Mansfield Road, Oxford OX1 3TB, UK.
Title: «Experimental salt weathering of limestones in relation to rock properties». Available at : [http://dx.doi.org/10.1002/\(SICI\)1096-9837\(199908\)24:8<715::AID-ESP4>3.0.CO;2-#](http://dx.doi.org/10.1002/(SICI)1096-9837(199908)24:8<715::AID-ESP4>3.0.CO;2-#). Available online 1999. Full source: SO: Earth Surface Processes and Landforms, VL: 24 , NO: 8, PG: 715-724, YR: 1999, CP: Copyright © 1999 John Wiley & Sons, Ltd. ON: 1096-9837, PN: 0197-9337, DOI: 10.1002/(SICI)1096-9837(199908)24:8<715::AID-ESP4>3.0.CO;2-#. Language: English. Document type: Research article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
33. Authors: Camdan-Gökçeoğlu. (2004). RÜ. Jeoloji Müh.. Böl. Beytepe, Ankara, Turkey.
Title: «Schmidt sertlik çekici kullanılarak tahmin edilen tek eksenli sıkışma dayanımı verilerinin güvenilirliği üzerine bir değerlendirme». Available at : http://www.jmo.org.tr/resimler/ekler/77540c7bcb8db31_ek.pdf?dergi=JEOLAJ%C4%B0%20M%C3%9CHEND%C4%B0SL%C4%B0%C4%9E%C4%B0%20DERG%C4%B0S%C4%B0. Language: Turkish. Document type: Research

- article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
34. Authors: Dr. Kuroschi Thuro. (6.4.1995). Ph.D. Thesis submitted to the Technical University of Munich, Faculty of Geosciences. Accepted: 06-4-1995. The thesis was distinguished by the Austrian society for Geomechanics with the Leopold Mueller Foerderpreis. ISSN 1430–5674. Title: «Drillability in Hard Rock Tunneling by Drilling And Blasting». Available at : http://www.geo.tum.de/people/thuro/pubs/1996_mghb1_diss.pdf. Electronic Publication: 1998. Language: German. Document type: Ph.D. Thesis submitted to the Technical University of Munich. Cited reference: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
35. Author: Dr. Andrew S. Goudie. (2006). Title: «The Schmidt Hammer in geomorphological research». Available at: <http://ppg.sagepub.com/cgi/content/abstract/30/6/703>. Full source: Progress in Physical Geography, Vol. 30, No. 6, 703-718 (2006), DOI: 10.1177/0309133306071954, © 2006 SAGE Publications. Published online: December 2006. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
36. Author: Fulvio Maurizio Rivano Gutiérrez. (2004). Ph.D. Thesis submitted to the UNIVERSIDAD AUSTRAL DE CHILE, FACULTAD DE CIENCIAS AGRARIAS, ESCUELA DE AGRONOMIA. Accepted: 2004. Title: «Análisis de eventos extremos de precipitación y su efecto en el diseño de drenaje superficial de tierras agrícolas del sur de Chile». Available at: http://www.unesco.org/phi/biblioteca/bitstream/123456789/324/1/RFFA_FRivano.pdf. Electronic Publication: 2006. Language: Chile. Document type: Ph.D. Thesis submitted to the UNIVERSIDAD AUSTRAL DE CHILE. Cited reference: MANOLIADIS, O. & SACHPAZIS, C. 2000. «Geomorphological investigation of the drainage networks and calculation of the peak storm runoff of Skarmaga and Agia Triada streams». Electronic Journal of Geotechnical Engineering. <<http://www.ejge.com/2000/Ppr0016/Abs0016.htm>> (7 Feb. 2004).
37. Authors: Daniel A. Vellone & Charles Merguerian. (2007).

Title: «Measuring Engineering Properties of NYC Rocks using a Schmidt Rebound Hammer – Preliminary Results». Available at: http://people.hofstra.edu/faculty/charles_merguerian/Abobe%20pdf%20Files/DAVCM2007.pdf. Full source: in Hanson, G. N., chm., Fourteenth Annual Conference on Geology of Long Island and Metropolitan New York, 14 April 2007, State University of New York at Stony Brook, NY, Long Island Geologists Program with Abstracts, 7 p. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

38. Author: Bandar Duraya Al-Anazai. Petroleum and Natural Gas Eng. Dept., College of Eng., King Saud University, P.O. Box122331 Riyadh 11721, Saudi Arabia. (2007).

Title: «Prediction of Apparent Cohesion, Angle of Internal Friction and Poisson's Ratio of various Types of Rocks Using Laboratory Measured Unconfined (Uniaxial) Compressive Strength». Available at: http://www.geocities.jp/yymiya/13thSymp/Program2007_tentative_V10.pdf.

Full source: The 13th Formation Evaluation Symposium of Japan. JOGMEC-TRC, Chiba. September 27 - 28, 2007. Published online: September 27 - 28, 2007. Language: English. Document type: Article. Cited references: Costas I. Sachpazis Associate Professor, Department of Geotechnology and Environmental Engineering, Technological Educational Institute of West Macedonia, Koila 50100, Kozani, Greece, The Electronic Journal of Geotechnical Engineering-Volume 9, 2004 - Bundle B. «Monitoring Degree of Metamorphism in a Four-stage Alteration Process Passing from Pure Limestone to Pure Marble».

39. Author: Prof. Taha Abdallah. Associate Professor, Mining Dept, Faculty of Engineering, Cairo University. (1993).

Title: «Towards a Realistic Methodology of Modelling a Rock Blasting Pattern». Available at: http://www.maden.org.tr/resimler/ekler/8c56bce74669e2e_ek.pdf. Full

source: TÜRKİYE XIII. MADENCİLİK KONGRESİ, 1993. Published online: June 2007. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

40. Author: A. Guney, R. Altindag, H. Yavuz & S. Sarac. Mugla University, Faculty of Engineering, Department of Mining Engineering 48000 Muğla. SDU, Faculty of Engineering and Architecture, Department of Mining Engineering, 32260 İsparta. (2005).

Title: «Evaluation of the Relationships between Schmidt Hardness Rebound Number and Other (Engineering) Properties of Rocks». Available at: http://www.maden.org.tr/resimler/ekler/c53fab47b547a0d_ek.pdf. Full source: The 19th International Mining Congress and Fair of Turkey, IMCET2005, İzmir, Turkey, June 09-12, 2005. Published online: June 2007. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

41. Authors: E. Yasar and Y. Erdogan. (2004). Department of Mining Engineering, Faculty of Engineering, Cukurova University, 01330 Balcali, Adana, Turkey. Corresponding author. Fax: +90-322-3386126, eyasar@cukurova.edu.tr.

Title: «Estimation of rock physicochemical properties using hardness methods». Available at:

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V63-491J0PK-1&_user=10&_coverDate=02%2F29%2F2004&_rdoc=1&_fmt=&_orig=search&_sort=d&_view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=52b561d1b6272e9199d859316de0cc27. Received 19 December 2002; accepted 2 June 2003. ; Available online 9 July 2003. Full source: Bulletin of Engineering Geology. Publisher: 2003 Elsevier B.V. / Engineering Geology. Issue: Volume 71, Issues 3-4. Date: February 2004. Pages 281-288. DOI: 10.1016/S0013-7952(03)00141-8. Language: English. Document type: Research Paper. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

42. Authors: Ibrahim OCAK. (2006). Department of Mining Engineering, Faculty of Engineering, Istanbul University, Turkey. Title: «RELATIONSHIP BETWEEN COMPRESSIVE STRENGTH AND MODULUS OF ELASTICITY IN KADIKOY-KARTAL METRO LINE'S ROCKS». Available at:

http://www.istanbul.edu.tr/eng/jeoloji/library/dergi/cilt_18_s_1/Cilt19-

- [s2-syfy\(151-156\).pdf](#). Istanbul Üniv. Müh. Fak. Yerbilimleri Dergisi, C. 19, S. 2, SS. 151-156, Y. 2006. Language: Turkish. Document type: Research Paper. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
43. Authors: MAHMUT MUTLUTURK and REMZI KARAGUZEL. (2007). Suleyman Demirel University, Faculty of Engineering and Architecture, Department of Geological Engineering, Isparta, Turkey, and Istanbul Technical University, Faculty of Mines, Department of Geological Engineering, Istanbul, Turkey.
Title: «The Landfill Area Quality (LAQ) Classification Approach and Its Application in Isparta, Turkey». Available at: <http://eeg.geoscienceworld.org/cgi/content/abstract/13/3/229>. Full source: Environmental and Engineering Geoscience; August 2007; v. 13; no. 3; p. 229-240; DOI: 10.2113/gseegeosci.13.3.229. 2007 Association of Engineering Geologists. Language: English. Document type: Research Paper. Cited references: Manoliadis, O. G., and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
44. Authors: A. I. Σοφιανός. (2001). Στο βιβλίο του καθηγητή Α. Ι. Σοφιανού «ΜΗΧΑΝΙΚΗ ΤΩΝ ΠΕΤΡΩΜΑΤΩΝ» για τους μεταπτυχιακούς φοιτητές του ΔΠΜΣ: Σχεδιασμός και Κατασκευή Υπογείων Έργων, στο κεφάλαιο 4, στον πίνακα (1). Πίνακας 1. Εμπειρικές σχέσεις υπολογισμού της μονοαξονικής θλιπτικής αντοχής και του μέτρου ελαστικότητας από την αναπήδηση. Available at: http://tunnelling.metal.ntua.gr/downloads/post-grad_files/A4.pdf. Full source: ΔΠΜΣ : Σχεδιασμός και Κατασκευή Υπογείων Έργων. ΜΑΘΗΜΑ: ΠΡΟΧΩΡΗΜΕΝΗ ΜΗΧΑΝΙΚΗ ΤΩΝ ΠΕΤΡΩΜΑΤΩΝ. Διδάσκων : Α.Ι. ΣΟΦΙΑΝΟΣ. Document type: Book. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
45. Authors: Işık Yılmaz. (2008). Department of Geological Engineering, Cumhuriyet University, 58140 Sivas, Turkey. Corresponding author e-mail: iyilmaz@cumhuriyet.edu.tr. Discussion on the paper entitled:

- «Mechanical and physical properties of the Kandira stone, Kandira, Turkey» by Arman et al., Bull Eng Geol Environ (DOI 10.1007/s10064-006-0082-x). Available at: <http://www.springerlink.com/content/93vv26j564u127km/>. Journal: Bulletin of Engineering Geology and the Environment, Publisher: Springer Berlin / Heidelberg, ISSN: 1435-9529 (Print) 1435-9537 (Online), Category: Discussion, DOI: 10.1007/s10064-008-0133-6, Subject Collection: Earth and Environmental Science, SpringerLink Date: Tuesday, January 29, 2008, Published online: 29 January 2008. Language: English. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
46. Authors: Faisal I. Shalabia, Edward J. Cordingb and Omar H. Al-Hattamleh. (2007). Department of Civil Engineering, Hashemite University, 13115 Zarqa, Jordan. Department of Civil Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois 61801, USA. Corresponding author e-mail: fshalabi@hu.edu.jo. Title: «Estimation of rock engineering properties using hardness tests». Available at: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V63-4MV757P-1&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=3283166fbcbcd1cd6bea8e1864df547c. Journal: Engineering Geology. Volume 90, Issues 3-4, 27 March 2007, Pages 138-147. DOI: 10.1016 / j. enggeo. 2006. 12. 006, Copyright © 2007. Received 12 September 2006; revised 17 December 2006; accepted 29 December 2006. Available online 17 January 2007. Language: English. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
47. Authors: A. Güney, R. Altındağ, H. Yavuz & S. Saraç. (2005). Department of Mining Engineering 48000 Muğla, and SDU, Faculty of Engineering and Architecture, Department of Mining Engineering, 32260 İsparta. Title: «Evaluation of the Relationships between Schmidt Hardness Rebound Number and Other (Engineering) Properties of Rocks». Available at:

- http://www.maden.org.tr/resimler/ekler/fe6a8a6e6cb7105_ek.pdf. The 19th International Mining Congress and Fair of Turkey, IMCET2005, İzmir, Turkey, June 09-12, 2005. Language: English. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
48. Authors: Skordili Maria Isavela. (2007). Kingston University - London, England, FACULTY OF SCIENCE. M.Sc. in Applied GIS. M.Sc. Title: «Cancer risks in populations living within 5km from an open dump site in part of Attica, Greece (1995-2004)». Available at: http://www.kingston.ac.uk/centreforgis/dissertations/Skordili_thesis_2007.pdf. FACULTY OF SCIENCE. M.Sc. DEGREE IN APPLIED GIS. Name: Skordili Maria Isavela. ID Number : K 0636056. M.Sc. Date: 28/09/2007. Language: English. Cited references: Manoliadis, O.G. and K.I. Sachpazis. (2002), «Geotechnical Aspects of a Landfill Site Selection Study in North Evia - Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
49. Authors: İbrahim ÇOBANOĞLU. (2007). Title: «Schmidt Çekici İle Kaya Dayanım Özelliklerinin Belirlenmesi Ve Uygulamalara Ait Detaylar». Available at: http://www.dsi.gov.tr/kutuphane/dsi_teknik_bulten/dsi_teknik_bulteni_102.sayi.pdf. Language: Turkish. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
50. Authors: M. A. Rodríguez-Sastre, M. Gutiérrez-Claverol and M. Torres-Alonso. (2008). Title: «Relationship between cleavage orientation, uniaxial compressive strength and Young's modulus for slates in NW Spain». Available at: <https://commerce.metapress.com/content/818588200622n562/resource-secured/?target=fulltext.html&sid=dc4jfq3rbervm2rz1mrfeyes&sh=www.springerlink.com>. Full source: Bulletin of Engineering Geology and the Environment, Volume 67, Number 2, May 2008 , pp. 181-186(6). Publisher: Springer. ISSN: 1435-9529 (Print) 1435-9537 (Online). DOI: 10.1007/s10064-008-0122-9. Issue: Online First. Published online: February 14, 2008. Language: English. Document type: Research article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-

- P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
51. Authors: C. Ayday and R. M. Goktan. (1992). Anadolu University, Department of Mining Engineering, Eskiehir, Turkey.
 Title: «Correlations between L and N-type Schmidt hammer rebound values obtained during field testing». Available at: http://books.google.gr/books?id=2WCiM4HaId0C&pg=PA50&lpg=PA50&dq=sachpazis&source=web&ots=oE4biFWyLp&sig=0yvTqQTenf8Q6AuZwNyTfF_Wzv0&hl=el&sa=X&oi=book_result&resnum=3&ct=result#PPA47,M1. Full source: ISRM SYMPOSIUM: EUROCK '92. ROCK CHARACTERIZATION. Publisher: Eurock'92, Thomas Totford. London, 1992. Language: English. Document type: Research article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
52. Authors: A. T. Arslan, M. Y. Koca, T. Aydogmus, H. Klapperich and H. R. Yilmaz. (2007). TU Bergakademie Freiberg, Institut fur Geotechnik, Freiberg, Germany and Dokuz Eylul University Earthquake Research Center, Ilzmir, Turkey.
 Title: «Correlation of Unconfined Compressive Strength with Young's Modulus and Poisson's Ratio in Gypsum from Sivas (Turkey)». Available at: <http://www.springerlink.com/content/3v0261j610j20476/>. Full source: Rock Mechanics and Rock Engineering, Rock Mech. Rock Engng. (2007). Publisher: Springer Wien. ISSN: 0723-2632 (Print) 1434-453X (Online). DOI: 10.1007/s00603-007-0145-8. Issue: Online First. Published online: February 14, 2008. Language: English. Document type: Technical Note. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
53. Authors: T. Ramjeawon and B. Beerachee. (2008). Department of Civil Engineering, Faculty of Engineering, University of Mauritius, Réduit, Mauritius.
 Title: «Site selection of sanitary landfills on the small island of Mauritius using the analytical hierarchy process multi-criteria method». Available at: <http://www.springerlink.com/content/3v0261j610j20476/>. Full source: Waste Management & Research, Vol. 26, No. 5, 439-447 (2008). Publisher: SAGE Journals. ISSN: 0723-2632 (Print) 1434-453X (Online). DOI: 10.1177/0734242X07080758. Published online: 2008. Language: English. Document type: Research article. Cited references:

- Manoliadis and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece In Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.
54. Authors: Eduardo da Cruz Reis. (2004). UNIVERSITY OF OURO PRETO BRAZIL - UNIVERSIDADE FEDERAL DE OURO PRETO BRASIL – ESCOLA DE MINAS. DEPARTAMENTO DE ENGENHARIA DE MINAS. PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA MINERAL. Master's Degree Dissertation. M.Sc. Title: « DIMENSIONAMENTO DE MALHAS DE FURAÇÃO PARA DESMONTE DE ROCHAS COM ARGAMASSA EXPANSIVA POR MECÂNICA DE FRATURA ». Available at: <http://www.ppgem.ufop.br/DICERT/EdCruRei.pdf>. FACULTY OF MINING ENGINEERING. M.Sc. DEGREE IN FRACTURE ENGINEERING. Name: Eduardo da Cruz Reis. M.Sc. Date: June 2004. Language: Spanish. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».
55. Authors: Ibrahim COBANOGU.
Pamukkale Universitesi, Muh. Fak. Jeoloji Muh. Bolumu, Kınıklı / DENIZLI. TURKEY. Title: «SCHMIDT CEKICI ILE KAYA DAYANIM OZELLIKLERININ BELIRLENMESI VE UYGULAMALARA AIT DETAYLAR». Available at: http://www.dsi.gov.tr/kutuphane/dsi_teknik_bulten/102.pdf. Full source: DSI TEKNİK BULTENİ - DEVLET SU ISLARI GENEL MUDURLUGU. SAYI : 103, YIL : 2006, Uc ayda bir yayımlanır. (2006), p.p. 24-29. Language: Turkish. English summary. Document type: Article. Cited references: Sachpazis, C.I., 1990. Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks. 1990-B-IAEG-V42-P75.
56. Authors: I ik Yılmaz and Huseyin Send r. (2002). Department of Geology, Faculty of Engineering, Cumhuriyet University, 58140, Sivas, Turkey.
Title: «Correlation of Schmidt hardness with unconfined compressive strength and Young's modulus in gypsum from Sivas (Turkey)». Available at: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V63-45F8Y7M-

[3& user=10& rdoc=1& fmt=& orig=search& sort=d&view=c& acct=C000050221& version=1& urlVersion=0& userid=10&md5=de1410c36453ca7eb8d98fd738c6f8bb](http://www.geodomisi.com/3&user=10&rdoc=1&fmt=&orig=search&sort=d&view=c&acct=C000050221&version=1&urlVersion=0&userid=10&md5=de1410c36453ca7eb8d98fd738c6f8bb). Full source: Engineering Geology.

Volume 66, Issues 3-4, November 2002, Pages 211-219. Publisher: Elsevier Science B.V.. DOI: 10.1016/S0013-7952(02)00041-8. Issue: Accepted 2 January 2002. Available online 26 March 2002. Language: English. Document type: Article. Cited references: SACHPAZIS-C.I.-1990-B-IAEG-V42-P75. «Correlating Schmidt hardness with compressive strength and Young's Modulus of carbonate rocks».

57. Authors: REGIONAL CENTER FOR TRAINING AND TECHNOLOGY TRANSFER FOR THE ARAB STATES IN EGYPT (BCRC-EGYPT) First Edition 2005, by Dr. Ashraf M. El Mhagraby in collaboration of the Project Team; Dr. Said Dahroug and Geologist Ahmed Farouk). Preparation of a set of tools for the selection, design and operation of hazardous waste landfills in hyper-dry areas. Cairo, 23-26 May 2005. BASEL CONVENTION REGIONAL CENTER FOR TRAINING AND TECHNOLOGY TRANSFER FOR THE ARAB STATES. (2005).

Title: «GUIDELINES FOR HAZARDOUS WASTE LANDFILL SITE SELECTION AND ENVIRONMENTAL IMPACTASSESSMENT IN HYPER ARID AREAS - HW Landfill Site Selection and EIA Guidelines for Hyper Arid Regions». Available at: http://www.baselegypt.org/download/Guidelines/EIA/En/En_SiteSelection.pdf. Published: First Edition 2005. Cited references: Manoliadis, O. G., and C. I. Sachpazis (2001). «Geotechnical aspects of a Landfill site Selection Study in North Evoia - Greece». Electronic Journal of Geotechnical Engineering in Volume 6, No. 4 – 2001.

58. Authors: Δρ. Θεόδωρος Σ. Κουσουρής, Περιβαλλοντολόγος-Διευθυντής του Ινστιτούτου Εσωτερικών Υδάτων (IEY) του Εθνικού Κέντρου Θαλασσίων Ερευνών (Γενική Γραμματεία Ερευνας & Τεχνολογίας, Υπουργείο Ανάπτυξης (2006).

Title: «Η Λίμνη Ζαραβίνα ή Νιζερός ή Νεζερός της Περιοχής Πωγωνίου, Ν. Ιωαννίνων (Προέλευση – Μορφομετρία - Υδρολογία , Υδροφορία & Τροφοδοσία – Περιβάλλον & Ανθρωπογενείς Δραστηριότητες- Συμπεράσματα)». Available at: <http://www.perivallon.com/material/articles/EnimerotikaArthra/limniZARAVINA.pdf>. Language: Greek. Document type: Article. Cited references: Sachpazis, C.I. Nikolaou E., 1999. «Εκθεση πραγματογνωμοσύνης για το Πολυμελές Πρωτοδικείο Ιωαννίνων».

59 to 150: To be added.

CONFERENCES - SEMINARS (ATTENDED)

Attended the below mentioned conferences - seminars:

1. "Second scientific Geological Conference". Organized by the Hellenic Geological Society on May 17-18, 1984.
2. "Geology in Civil Engineering Projects". Organized by the Greek Centre of Productivity and the Union of Greek Geologists on January 27-31, 1986.
3. "Site investigation. Dynamic pile tests (integrity, bearing capacity)". Lecture by the Swiss President of the Geotechnical Company: Geoconsulting Ltd., Dr. H. Kapp. which was given at the Technical Chamber in February 1986.
4. "Third scientific Geological Conference". Organized by the Hellenic Geological Society on May 22-25, 1986.
5. "Geotechnical Problems of Marl Rocks at Piraeus". Organized by the Greek Technical Chamber, on November 5, 1986.
6. "First Panhellenic Conference on Geotechnical Engineering". Organized by the Greek Technical Chamber and the Hellenic Scientific Association of Soil Mechanics and Foundation Engineering on February 3-5, 1988.
7. "Observations in relation to the Stability of Rock Slopes". Lecture at the National Technical University of Athens, by the Professor of Durham University of England, Dr. Peter B. Attwell on 21/4/1988.
8. "International Symposium: Engineering Geology as Related to the study, Preservation and Protection of Ancient Works, Monuments and Historical Sites". Organized by the Hellenic Committee of Engineering Geology, on September 19-24, 1988. (Participated with a scientific announcement).

9. "Hydrogeological problem of Kefallonia Island. Perspectives -Suggestions". Seminar at the National Technical University of Athens, by Professor I. Koumantakis on 31/10/1988.
10. "Monitoring the large scale Landslide "La Clapiere", S. France". Lecture by Dr. J. L. Durville of the Laboratoire Central des Ponts et Shaussees (LC PC) of France, which was given at the sector of Engineering Geology of the National Technical University of Athens on December 7, 1988.
11. "The Upper sea bottom Sediments of the Golfs Orfanou, Kavala and Ierissos. - Mineralogical composition and their Origination". Lecture at the N. P. of Athens by lecturer Dr. N. Konispoliatis on 23/1/1989.
12. "The new methodology: sychrontron". Seminar given by As.Prof. A. Vienopoulos, in the N.T.U.A.. 28 Mar 1989.
13. "Various topics on hydrogeology". Seminars given by various scientists, in the N.T.U.A., organized by the Greek committee of Hydrogeology. 17 Apr 1989.
14. "First Scientific Conference on Geophysics". Organized by the Union of the Geophysicists of Greece, on April 19-21, 1989.
15. "Geotextiles and Geogrids. Areas of application in Geotechnical problems". Seminar given by representative engineer of the British company 'Tensar'. 21 Sep 1989. Geospectrs and geogrids".
16. "Nineth Hellenic Conference of Concrete". Organized by the Greek Technical Chamber, on February 14-16, 1990. (Participated with a scientific announcement).
17. "International Standards for Geotechnics - state of affairs". Seminar at the Goethe Institute by the President of the German Scientific Association of Soil Mechanics and Foundation Engineering and vice -president of I.S.S.M.F.E. in Europe, Professor U. Smoltczyk, on 8/6/1990.

18. "Specifications for Water Boreholes". Seminars given by Contractors of Public Works - Public Servants, in N.T.U.A.. 08 Nov 1990.
19. "The Water Supply Problem of Athens Basin and its encountering". Conference organized by Geotechnical Board of Greece. 26 Apr 1991.
20. "Rock slope stability Problems and Analyses". Seminar given by Prof. E. Hoek. Organised by Public Power Corporation, on 06 Jun 1991.
21. "Use of New Technology Materials in Land Reclamation Works". Seminars given on 20 Jun 1991, by representatives of Ministry of Agriculture and Firms Gundle / USA. and Polyfelt / Austria.
22. "Engineering Geology and Dams. Experiences from Greek Territory". Seminars given on 20 Nov 1991, Organized by the Greek Committee of Engineering Geology, authorized By the I.A.E.G.
23. "Geotextiles and their applications". Seminar at the President Hotel on 7/7/1992 by executives of the British Company NELTON, which produces geogrids - geotextiles.
24. "Engineering Geology and Tunnels". Lecture at the Greek Technical Chamber, on 7/10/1992 by professor P. Marinos.
25. "Retaining Walls with anchors". Lecture at the Greek Technical Chamber, on 7/4/1993, by Dr. S. Papaspirou.
26. "Ground-piles with high pressure concrete (jet grouting)". Lecture at the Greek Technical Chamber, on 12/5/1993 by Dr. G. Rizopoulos.
27. "International Symposium on Hard Soils - Soft Rocks". The symposium took place from 20 to 23 of September 1993, at the Athens Hilton Hotel, and was organized by the ISRM, the ISSMFE and the IAEG.
28. "Underground Works". Two days meeting at the Greek Technical Chamber, on 13 and 14/1/1994.

29. "Anti-seismic calculation of sea-front retaining structures". Meeting at the National Technical University of Athens. Faculty of Civil Engineering, on 15/6/1994.
30. "Water at irrigation and industry - Problems and Perspectives". Lectures - Discussion at the Commercial and Industrial Chamber of Salonica, on 29/9/1994.
31. "Axios River. Problems - Possibilities - Perspectives". Two days meeting at the Information Centre of hydrosite of Chalastra, on 30/9/94.
32. "Advanced Geotechnical Testing in Laboratory and field and harmonization of such in Europe". Lecture by the President of the Soil Mechanics laboratories of the Danish Geotechnical Institute (DGI), Dr. Niels Foged. The lecture was given at the Earthquake-struck Rehabilitation Office on 12/10/1994 and was organized by the Hellenic Committee of Soil Mechanics and Foundation Engineering.
33. "The aquatic problem of the basin of Viotian Kifissos". Two days lasting lectures at the Municipality of Livadia, on 23 and 24/11/1994.
34. "Great substructure projects and peripheral development". International Conference at the Scientific Park of Patras, on 25 and 26/11/1994.
35. "Comprehensive interference towards the reduction of the dangers due to floods". Second National Conference, which was organized by the Greek Committee for the Management of water resources at the N.T.U. of Athens, on 12 and 13/1/1995.
36. "Proper Use and Limitations of Rock Mass Classifications in Tunnelling and their Role in Engineering Design". Lecture at the National Technical University of Athens, section of Geotechnical Engineering, by the Professor of the Pennsylvania State University, Prof. Z. T. Bieniawski, on 27/1/1995.

37. "Geotechnical Study and construction of water reservoirs". Two days lasting lectures at the Greek Technical Chamber, on 20 and 21/3/1995 by GEC, H.C.S.M.F.E. and the Ministry of Agriculture.
38. "Meeting for the waste disposal management and burial". Meeting at Geotechnical Chamber of Greece, in Salonica, on 7/4/1995.
39. "Flood preventing and Protection works in Athens basin". Meeting at National Technical University of Athens - Faculty of Engineering, on 12/4/1995.
40. "Composition of a help-manual of programmes evaluation of linear analysis of shallow foundations". Meeting at EBEA, on 10/5/1995.
41. "Uses of by-products from industrial processes and previously used products in civil engineering". Lecture of a Professor from Purdue University U.S.A, organised by the H.C.S.M.F.E., in the National Technical University of Athens, on 7/6/1995.
42. "International Trade Fair for Environmental Protection and Waste Management Technologies". International exhibition, in Dusseldorf, Germany, on 19 up to 23/06/1995.
43. "HELECO '95". International exhibition and symposium for Environmental Technologies and Protection, in Athens, Greece, on 9 up to 12/11/1995.
44. "Geotechnical Engineering and Environment". Two days lasting lectures in Athens, Greece, on 9 and 10/11/1995 organized by the Greek Technical Chamber and H.C.S.M.F.E..
45. "The Earthquake of Kobe (Japan) 1995: Reports and Registrations, Role and Failure of Foundation Ground, Damages of Infrastructure Works, Repairs". Lecture given by Professor G. Gazetas, organised by the Greek Technical Chamber, in E.B.E.A., on 3/4/1996.

46. "Chemical Products and Requirements for Contemporary Environmental Management". One day lasting lectures in Athens, Greece, on 11/09/1996, organized by the National Technical University of Athens.
47. "Water Resources Management". Four days lasting International Symposium in Larisa, Greece, on 13 until 16/11/1996, organized by the Greek Technical Chamber.
48. "Water: Deadlock? - Sustainable solutions to water demand". Two days lasting International Conference in Thessaloniki, Greece, on 4 and 5/12/1996, organized by the Prefecture of Thessaloniki.
49. "3rd Hellenic Geotechnical Engineering Congress". Three days lasting lectures in the frame of the Congress in Patras University, Greece, on 20 until 22/03/1997 organized by the Greek Technical Chamber and H.C.S.M.F.E..
50. "International Symposium on Engineering Geology and the Environment". Five days lasting International Conference, given in the Athens Hilton Hotel, Greece. Organized by the International Association of Engineering Geology, on 23 to 27 June 1997.
51. "5th Conference on Environmental Science and Technology". Five days lasting scientific paper presentations in the frame of the Conference in the University of the Aegean, Department of Environmental Studies, Greece, Molyvos - Lesbos Island, on 1st until 04/09/1997, organized by the University of the Aegean.
52. "Opening Tunnels in Soft Soil". Three day lasting lectures and scientific paper presentations in London, U.K., on 16-18/09/1997.
53. "Management of Water Resources of Greek Territory. Presentation of the actions outline". One day lasting lectures and scientific paper presentations in the National Technical University of Athens, on 29/09/1997, organized by the Greek Ministry of Development.

54. "4th Conference on Hydrogeology with emphasis on quality and the issues of pollution and/or contamination of surface and underground water resources". Three days lasting scientific paper presentations in the frame of the 4th Conference in Thessaloniki, Greece, on 9th until 11/11/1997, organized by the Greek Committee of Hydrogeology and the Geological and Metallurgical Association of Cyprus.
55. "Soil Reinforcement using Geotextiles". One day lasting seminars at the Holiday Inn Hotel on 11/6/1998, organized by executives of the British Company TENSAR, which produces geogrids - geotextiles.
56. "The Finite Element Analysis Method in Geotechnical Engineering". Three day lasting lectures in Imperial College, London, U.K., on 22-24/06/1998.
57. "Railway Tunnels in Greece". One day lasting lectures and scientific paper presentations at the Martial Museum of Athens on 25/6/1999, organized by ERGA OSE S.A. and the Hellenic Society for Tunnels and Underground Works (H.S.T.U.W.).
58. "Water Resources Management and protection of rivers and watersheds in Rio - Patras Municipality". One day lasting lectures and seminars given by various scientists, in Patras, on October 22nd, 1999.
59. Participation to the two days lasting Lecture entitled: "Tunnels of Egnatia Highway", held on 15 to 16 October 1999, at Ioannina, Greece.
60. Participation to the Lecture of Professor Harry Poulos entitled: "Piled Raft Foundations - Design and Applications". This lecture was organized by the Hellenic Society for Soil Mechanics and Foundation Engineering, on January 24th, 2000 at the N.T.U.A..
61. "Energy as a lever of sustainable rural development". One day lasting lectures and seminars given by various scientists, in Patras, on June 6th, 2001.

62. "Hydrogeology and Environment". Seminars given by various scientists, in Caravel hotel, organized by the Greek committee of Hydrogeology. 28 Sep 2001.
63. "4th Hellenic Geotechnical Engineering and Environmental Engineering Congress". Lectures in the frame of the Congress in Athens, Greece, on 01/6/2001, organized by the Greek Technical Chamber and H.C.S.M.F.E..
64. Participation to the two days lasting Lecture entitled: "Tunnels of Egnatia Highway - Two years later". This lecture was organized by the Hellenic Society for Tunnels and Underground Works (H.S.T.U.W.) & Egnatia Odos S.A., held on December 7th & 8th, 2001, at the "Du Lac" Conference Centre, at Ioannina, Greece.
65. Participation to the Lectures - Seminars entitled: "European Community Standard 92/57/U.U. & Presidential Decree 305/96. Minimum Requirements of Standards for Safety & Health for Temporary & Mobile plants for Infrastructure Public Works". This lecture was organized by the Egnatia Odos S.A., held on February 01, 2002, at the Novotel Hotel, at Athens, Greece. Lecturers: S. Green-Halliburton KBR-U.K., M. Cox-Halliburton KBR-U.K. and V. Loukides-Egnatia Odos S.A..
66. "Guidelines and framework for Water Resources Management - Harmonization of European practice with Greek reality". One day lasting lectures and seminars given by various scientists, in Athens, on May 22nd, 2002.
67. "6th Conference on Hydrogeology with emphasis on quality and the salination of underground water resources". Three days lasting scientific paper presentations in the frame of the 6th Conference in Xanthi, Greece, on 8th until 10/11/2002, organized by the Greek Committee of Hydrogeology and the Geological.
68. "Science and Technology of Water Resources". One day lasting lectures and seminars given by various scientists, in Caravel hotel, organized by the N.T.U.A., on June 2nd, 2003.

69. "6th Conference on Water Resources Management and Crystallization technologies for the prevention of saline water intrusion on European level". One day lasting scientific lectures and seminars in the frame of CRYSTECHALIN programme (EVK1 - 2000 - 631 : European Commission), organized by the Greek Ministry of Development, held on November 06, 2003, at the Amalia Hotel, at Athens, Greece. Lecturers: Prof. Dr. Jacob Bear (Israel), Dr. Gualbert Ou. Essing (Holland), Prof. Dr. Polemio (Italy - UNESCO representative for European Hydrological Programme) and other discreet Greek Scientists.

70. Participation to the three days lasting Lecture entitled: "Geological - Geotechnical issues. The significance and progress of the Egnatia Motorway". This lecture was organized by the Epirus Section of the Greek Technical Chamber, the H.C.S.M.F.E., and the Egnatia Odos S.A., held on November 13th, 14th & 15th, 2003, at the "Du Lac" Conference Centre, at Ioannina, Greece.

71. Participation to the Lecture of Professor Harry G. Poulos entitled: "Pile Behaviour - Consequences of Geological and Construction Imperfections". This lecture was organized by the Hellenic Society for Soil Mechanics and Foundation Engineering in cooperation with the Geotechnical Engineering Section of N.T.U.A. and the Greek Public Power Corporation (P.P.C.), on June 17th, 2004 at the N.T.U.A..

72. Participation to the four days lasting Conference entitled: "The Grevena - Kozani District Earthquake of 13th May 1995". This Conference was co-organized by the West Macedonia Prefecture, the Greek Geotechnical Chamber, and the Greek Technical Chamber, held on May 13th to 16th, 2005, at both Grevena and Kozani, Greece.

73. Participation to the Seminar of Professor Dr. R. Frank, E.N.P.C., entitled: "MicroPiles - Research and Applications". This seminar was organized by the Geotechnical Engineering Section of the Civil Engineering Department of the N.T.U.A. in Athens - Greece, on May 30th, 2005 at the N.T.U.A..

74. Participation to the Seminar of Professor Dr. Robert Mair, of Cambridge University, entitled: «Tunneling and Geotechnics – New Horizons» (2006 Rankine Lecture). This seminar was organized by the Greek Committee of Tunneling and Underground Works in Athens - Greece, on September 14th, 2007 at the Industrial Board of Greece.

75. Participation to the Lecture of Professor Panagiotis Karydis, of the National Technical University of Athens, entitled: «Decrease of Seismic overstressing of structures using a special type of foundation system». This lecture was organized by the Hellenic Society of Technical Universities, on December 14th, 2006 at the Technical Chamber of Greece.

76. Participation to the Symposium: Aachen International Mining Symposia – AIMS. Fourth International Symposium “High-Performance Mine Production”, May 30th and 31st, 2007 in Aachen, Germany, sponsored by Becker Mining Systems GmbH and Eickhoff Bergbautechnik GmbH.

77. Participation to the 3rd International Conference on Sustainable Development Indicators in the Minerals Industry (SDIMI 2007), held on 17-20 June 2007, on Milos island in Greece, at the Milos Conference Center - George Eliopoulos.

78. Participation to the Seminar, entitled: «Geotechnical Applications of Geosynthetic Materials». This seminar was organized by the Greek Technical Chamber and the Greek Committee for Geosynthetic Materials, on January 11th, 2007 at the Industrial Board of Greece.

79. Participation to the Seminar, entitled: «Tunnel Excavations using Total Boring Machines (T.B.M.)». This seminar was organized by the Greek Technical Chamber, the Greek Polytechnic Committee and the Greek Committee of Tunneling and Underground Works in Athens - Greece, on February 11th, 2007 at the Industrial Board of Greece.

80. Participation to the Symposium, entitled: «Seismic Resistant Planning, Behaviour Observations, and Foundation Improvements». This Symposium was sponsored by Japanese Geotechnical Society, and the Japan

Association for Earthquake Engineering, on April 3rd – 4th, 2007, in Tokyo, Japan.

81. Participation to the Seminar, entitled: «New Methods for Mechanical Tunnel Excavations». This seminar was organized by the Greek Committee of Tunneling and Underground Works in Athens - Greece, on February 1st, 2007 at the Industrial Board of Greece.

82. Participation to the Seminar, entitled: «Load Transfer, Settlement, and Stability of Embankments Founded on Columns Installed by Deep Mixing Methods». This seminar was organized by the National Technical University of Athens School of Civil Engineering Geotechnical Department – Foundation Engineering Laboratory, on July 10th, 2007 at the National Technical University of Athens.

83. Participation to the Symposium, entitled: «EuroGeo4 - 4th European Geosynthetics Conference». This Symposium was sponsored by Electrokinetic Ltd, UK, on 7 - 10th September 2008, in Edinburgh, U.K..

LECTURES - INTERVIEWS (DELIVERED)

1. On 21/9/1988 he has presented a scientific original work in the issue of: "Building Stones of the Ancient monuments in Attica", in the International Symposium of Engineering Geology (I.A.E.G.).
2. On 15/2/1990 he has presented the original scientific work in the issue of: "Physicomechanical Properties of the aggregates of Kalamata quarries. Investigation of their suitability as concrete aggregates", in the 9th Hellenic Concrete Symposium in Kalamata.
3. On March 28, 1990 gave a lecture in the University of Patras, with the title: "Contribution of Engineering Geology in the protection of Environment".

SHORT & EXTENDED CURRICULUM VITAE of Dr. CONSTANTINE J SACHPAZIS.

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4. On July 28, 1990 he announced his interview by the journalist Eri Vinieratou in the TELERAMA magazine in the issue of: "National road network, a Russian roulette for drivers".
5. On December 3rd, 1990, in the frame of the seminars by TCG/EEC, he gave a five hours lecture to the Surveyor Engineers in the issue of: "Aerophotographs and Photogeology. Their contribution in highway route selection".
6. On February 12, 1992 it was published his article in the local newspaper "PROODOS", Nr. 71, of Megara and Nea Peramos Cities, in the issue of: "Dangerous installation of the natural gas plant in the island of Revithoussa".
7. On March 18th, 1993, it was published his article in the magazine "Economikos Tahydromos" in the issue of: "Against Scarcity. Underground waters for the industry".
8. On October 18, 1993, he gave a lecture at the Rotarian Club of Eastern Attica (Rotary Hellas) at Holiday Inn, in the issue of: "The role of the Underground waters in the confrontation of scarcity".
9. On February 16, 1994, he gave an interview in the Foreign Press, 23 Akadimias str., in the framework of the foundation of the Hellenic Institute for Environment, desalination, Recycling and Preservation of water resources in the issue of: "Existing state of water resources in the Attica county and the Possibilities of their management".
10. On 24/5/1994 he has presented his work in the issue of: "The use of G.I.S. (Geographic Information System) in the management of the Water Resources in Attica county", in Congress in the issue of: "Constitution of a collaboration program for the planning of the human environment". Organized by the University of Athens and the Institute of Sparti, from 22/5 to 24/5/1994, in Sparti.
11. Since 19/2/1995 to 24/5/1995, he gave several interviews in the mass media (Newspapers: Apogevmatini, Elefteros, Adesmeftos, Pontiki, Vima, Nea,

Eleftherotypia, Kathimerini, Avriani, Bonus, etc.,. Television: ANT-1, Star Channel, ET-2, Channel 5, TELE-CITY, Radio: Flash 9.61), in the issue of "Malakassa land sliding".

12. On 26/6/1995 he gave an interview to "High Channel" television station, in the issue of: "Geotechnical suitability of the ground in relation to the designed and constructed Public Works in the Greek territory".
13. On 26/6/1995 he also gave an interview to "TELE-CITY" television station, in the issue of: "Tourism and Environment in Greece".
14. On 11/10/1995 he gave an interview to "TELE-CITY" television station, in the issue of: "The problem of floods in Athens basin. Proposals for anti-flood prevention and protection".
15. On 27/01/1996 he gave an interview to "MEGA CHANNEL" television station, in the issue of: "The disastrous floods in Athens basin on 26 & 27 of January 1996".
16. On October 3rd, 1996, his article was published in the magazine "Economikos Tahydromos" in the issue of: "The specific areas in Athens & Attica province which are the target of flood attack".
17. On 04/11/1996 he gave an interview to "ANT-1" television station, in the issue of: "Quality characteristics of potable water of certain areas of Greece".
18. On 21/03/1997 he presented his work with the title: "Integrated system for management of water resources in Attica county and flood prediction - protection of Sarantapotamos (Elefsina) hydrologic basin", in the two days lasting International Conference, in the issue of: "3rd International Conference of Aquapolises. City and Water", given in Orfeas Ship in Piraeas Port, Greece. Organized by the Piraeas Prefecture and sponsored by Ministry of Environment and Public Works, on 20 and 21/03/1997.
19. On 27/06/1997 he presented his original parer with the title: "Geomorphological investigation of the drainage network and calculation of

the peak storm runoff (Q_p) and sediment yield of Sarantopotamos and Katsimidi streams", in the five days lasting International Conference, in the issue of: "International Symposium on Engineering Geology and the Environment", given in the Athens Hilton Hotel, Greece. Organized by the International Association of Engineering Geology, on 23 to 27 June 1997.

20. Since 25/10/1997 to 30/10/1997, he gave several interviews in the mass media (Newspapers: Ethnos, Exousia. Television: SKY, Radio: Sky 100.4), in the issue of "The disastrous floods in Patras and Attika basins 25 & 26 of October 1997".
21. On 10/03/1998 he presented a two hour programme to "Channel 40" television station, in the issue of: "European Union and Water Environment".
22. On 16/07/1998 his article was published in the Newspaper "Exousia" in the issue of: "The areas in Attica province with underground water resources deficiency. Possibility of Artificial discharge of aquifers".
23. On 16&17/07/1998 he also gave an interview to "PLANET FM" radio station, in the issue of: "Water resources management related problems in Attica province".
24. On 19/03/1999 his article was published in the Newspaper "Adesmeyftos Typos" in the issue of: "From waterfloods to ... watersortage in Athens hydrologic basin".
25. On 18/09/1999 he gave a press conference to "SEVEN" television station, in the issue of: "The role of foundation ground on the buildings damage from the 07-09-1999 disastrous earthquake in Athens".
26. On 10/10/2000 his article was published in the Newspaper "Exousia" in the issue of: "Unshielded areas in Greece. Danger for disastrous floods in 34 districts in Attica province".
27. On 28/01/2005 his article was published in the Newspaper "The Contract" in the issue of: "We live on yoghurt. Danger in the foundations of our

houses in over 50 districts in Attica province in Greece". Article in cooperation with the journalist Alkmini Psilopoulou.

28. On 13/01/2006 he gave a press conference to "Blue Sky" television station, in the issue of: "The Ground Seismic Risk and the Methods of Geotechnical Ground Improvements of the buildings foundations".
29. On 16/11/2006 he gave a press conference to Stefanakis Journalist of "Samos Radio Station", in the issue of: "The Geotechnical Engineering Problems os Samos Island after the catastrophic fires of 2000 and the safety of Public Works ".
30. On 20/11/2006 his article was published in the Newspaper "Samiaki No. 2123" after the lecture he gave to the Samos Island Nomarch Mr. Carlas, in the issue of: "The technical – economical optimum geotechnical engineering measures for the stabilization of failed slopes along the central national road connecting Karlovasi – Bathy of Samos Island.
31. On 22/10/2007 he gave a lecture at the Ministry of Water Resources and Irrigation of Egypt, National Water Research Center, Fum Ismailiya Canal, in Cairo, Egypt, on the theme: «Integrated Geotechnical and Geophysical Engineering Consulting for Soil Mechanics, Rock Mechanics, Foundation Engineering & Retaining Structures».
32. On 10/12/2007 he gave a lecture at the conference: Business prospects of graduates of the Department of Geotechnology and Environmental Engineering of the Technological Institute of Western Macedonia, Kozani, entitled "Employment in Geotechnical and Mining Projects in Greece".
33. On 29/11/2008 he gave a lecture at the Post-Graduate Programme, "ENVIRONMENT & NEW TECHNOLOGIES", in Thessaloniki, on the theme: "The presentation, analysis and design of shoring deep excavations in public works projects, with the method of Anchored Piled Retaining Wall Systems of Berlinnoise type, by presenting the case study of the Municipal Theatre of Piraeus".

34. On 03/12/2012 he gave a lecture at the University of Portsmouth, School of Civil Engineering, in Portsmouth UK, on the theme: "Stability investigation methodology & technologies for stabilisation of slopes & bodies of unstable Uncontrolled Waste Disposal Sites (U.W.D.S.) in Greece".
35. On 28/02/2014 he gave a CPD lecture, on the theme: "Deep Excavations supported by Anchored Reinforced Concrete Piled Retaining Walls - Construction Phases and Procedure". The CPD event was organised by the Institution of Civil Engineers (ICE) Greek Local Committee. Venue: J&P - Avax S.A., Amphitheater, 16 Amarousiou Halandriou Str., Paradisos Amarousiou, Greece.
36. On 02/04/2014 it was published a CPD lecture, on the theme: "Deep Excavations supported by Anchored Reinforced Concrete Piled Retaining Walls - Construction Phases and Procedure". The CPD event was organised by the Institution of Civil Engineers (ICE) Greek Local Committee. Venue: J&P - Avax S.A., Amphitheater, 16 Amarousiou Halandriou Str., Paradisos Amarousiou, Greece.
37. On 02/04/2014 it was published an Article in cooperation with Dr. Anastasiadis, on the theme: "The Need for an In-Depth Geotechnical Site Investigation and Characterization Study: The Case of JCCI Project in Jeddah, Kingdom of Saudi Arabia (KSA)". This Project was prepared by the GeoStatic Partnership (www.geostatic.eu). The article was published in the "The ICE Greek LA Newsletter, March 2014", issued by "THE INSTITUTION OF CIVIL ENGINEERS GREEK LOCAL ASSOCIATION NEWSLETTER".
38. On 04&05/06/2016 he gave an open to public Speech, on the theme: "The Civil Engineering Projects and Works at the campaigns of Alexander the Great". The Congress was organised by the "Association Alexander Greek Macedon Philip's Son (SAFEM)". The first International Scientific Meeting was held at the Royal Theatre of Thessaloniki, Greece."