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STUDIES

University of Thessaloniki (B. Sc in Geology)

University of Thessaloniki (PhD in Geology)

NATURAL HISTORY MUSEUM ACTIVITIES

Since 1995 I was elected Director of the Natural History Museum of the Lesvos Petrified Forest, a legal entity established in 1994 for the benefit of the public, under the supervision of the Greek Ministry of Culture. The Museum's objective is to study, research, promote, preserve and conserve the unique Petrified Forest of Lesvos, a designated Protected Natural Monument of particular environmental, geological and paleontological value. The Museum has a vast experience in participating and coordinating Greek and European projects, programs and networks. It is one of the four founding members of the European Geoparks Network, established in 2000. This network's aim is to transfer geological knowledge to the public and to create new perspectives for a new quality of life by combining the idea of conservation of geological heritage together with economical and social aspects. The Museum's efforts for the protection promotion and rational management of the Petrified Forest awarded in 2001 with the Eurosite Management Award. This award is being given every two years as a recognition, encouragement and reward to best considered practices in managing natural sites.

PROFESSIONAL SOCIETIES / INTERNATIONAL COMMITTEES

Member of the Board of the Geological Society of Greece / Commission on Geological Heritage

Vice-President of the Board Geotechnical Chamber of Greece.

Coordinator of the European Geoparks Network.

Member of the Expert Group on Geoparks of the Division of Ecological and earth Sciences of UNESCO.

Member of the Task Force on Geoparks of the International Geographical Union

Member of the Task Force on Geomorphosites of the International Association of Geomorphologists

Member of ProGEO.

RESEARCH INTERESTS

Physical Geography, Geodynamics, Structural geology - Neotectonics, Mapping, Applied and Environmental Geology, Geological and Geomorphological Monuments - Geotopes.

RESEARCH COLLABORATIONS

Aristotle University of Thessaloniki.

University of Athens.

Natural History Museum – University of Crete

Réserve Géologique de Haute - Provence – FRANCE

Vulkaneifel European Geopark – GERMANY

Maestrazgo Cultural Park – SPAIN

Astroblème Rochechouart Chassenon – FRANCE
Psiloritis Natural Park – GREECE
Terra Vita Naturpark – GERMANY
Copper Coast Geopark– IRELAND
Marble Arch Caves & Cuilcagh mountain Park – N.Ireland UK
Madonie Nature Park – ITALY
Parco Culturale Rocca di Cerere – ITALY
Kulturpark Kamptal – AUSTRIA
Eisenwurz Naturpark – AUSTRIA
Naturpark Bergstrasse Odenwald – GERMANY
North Pennines AONB – UK
Abberley and Malvern Hills Geopark – UK
Park Naturel Régional du Luberon – FRANCE
North West Highlands – Scotland - UK
Geopark Swabian Alps – GERMANY
Geopark Harz Braunschweiger Land Ostfalen – GERMANY
Mecklenburg Ice Age Park – GERMANY
Hateg Country Dinosaurs Geopark – ROMANIA
Beigua Geopark - ITALY

FUNDING OF RESEARCH GRANTS

European Union, Ministry of the Aegean.

BOOKS

1. E. Velitzelos and N. Zouros, *Petrified forest of Lesvos*. Topio Publ., 2001.
2. E. Velitzelos, D. Mountrakis, N. Zouros, N. Soulakellis: *Atlas of the geological monuments of the Aegean*. Ministry of the Aegean. Adam Editions, 2003.
3. N.Zouros, G. Karatzas, M Gianneli (2004). Western Lesvos Island-about rocks,, plants and animals. Municipality of Eressos-Antisa.

PAPERS

Journal Publications

1. Pavlides S.B., **N.C. Zouros**, A.A. Chatzipetros, D.S. Kostopoulos and D.M. Mountrakis
The 13th May 1995 Western Macedonia, Greece (Kozani - Grevena) earthquake;
preliminary results. *Terra nova*, 7, 544-549. (1995).
2. Moropoulou A., Bisbikou K., Charitaras B., Kassoli-Fournaraki., **Zouros N.**, Makedon
Th., Fitzner B. and Heinrichs K. Examination of building stones of Demeter Sanctuary in
Eleusis. Origin, petrography and physical, mechanical and microstructural properties.
Bolletino Geofisico, 18,1, p.37-48. (1995).
3. Boccaletti M., Caputo R., Mountrakis D., Pavlides S. and **Zouros N.** Palaeoseismicity of
the Souli fault, Epirus, Western Greece. *Journal of Geodynamics*, Vol. 24, Nos 1-4, 117-
127 pp. (1997).
4. Mountrakis D., Pavlides S., **Zouros N.**, Th. Astaras and Chatzipetros A. Seismic fault
geometry and kinematics of the 13 May 1995 Western Macedonia (Greece) Earthquake.
Journal of Geodynamics, Vol. 26, Nos 2-4, 175-196 pp. (1998).
5. Pavlides, Spyros B., **Nicos C. Zouros**, Fang Zhongjing, Cheng Shaoping, Markos
D.Tranos, Alexandros A., Chatzipetros. Geometry, kinematics and morthotectonics of

- the yianqing-huailai active faults (Northern China). *Tectonophysics*, 308, 99-118. (1999).
6. Fytikas, M., S. Lombardi, M. Papachristou, S. Pavlides, **N. Zouros** and N. Soulakellis. Investigation of the 1867 Lesbos (NE Aegean) earthquake fault pattern based on geochemical data. *Tectonophysics*, 308, 249-261. (1999).
 7. Velitzelos E., **N.Zouros**, P. Seraides, E.Kontis Contribution to the study of the Lesbos Petrified Forest palaeoflora – Creation of Sigri geopark. Bulletin of the Geological society of Greece_vol.XXXIII, 89-98. (1999):
 8. Koufos G. **Zouros N.** Mourouzidou O. *Prodeinotherium bavaricum* (Proboscidea, Mammalia) from Lesbos island, Greece; the appearance of deinotheres in the Eastern Mediterranean **GEOBIOS** 36,305-315. (2003).
 9. **Zouros N.** (2004) The European Geoparks Network. Geological heritage protection and local development. *Episodes* vol 27, No 3, pp 165-171
 10. **Zouros N.** (2005) Assessment, protection and promotion of geomorphological and geological sites in the Aegean area, Greece. *Géomorphologie: relief, processes, environnement*, no 3, 227-234.

Conference publications

1. Mountrakis D., Kiliyas A. Pavlides S., **Zouros N.** Spyropoulos N., Tranos M. & Soulakellis N. Field study of the highly active fault zone southern Thessalia. In: Proceedings of the 2nd International Conference of the Geophysics Association of Greece, 2, 603-616. (1993).
2. Pavlides S., Fang Z., Cheng Sh. & **Zouros N.** Preliminary results on the geometry and kinematics of the Yinmenkuong-Guoncheng segment active normal fault. Yianqing basin, Beijing-China. In: Proceedings of the 2nd International Conference of the Geophysics Association of Greece, τόμος 2, 688-700. (1993).
3. **Zouros N.**, Mountrakis D., Kiliyas A. & Pavlides S. Tertiary thrusts and associated structures in the Pindos nape (NW Greece). In: *Proceedings of the international symposium "Thrust tectonics in Albania"*. *Bulletini I Shkencave. Gjeologjike*, 1/91, 69-79. (1991).
4. Mountrakis D., Kiliyas A. & **Zouros N.** Kinematic analysis and tertiary evolution of the Pindos - Vourinos ophiolites (Epirus - Western Macedonia, Greece). In: *Proceedings of the 6th Congress of the Geological Society of Greece (G.S.G.)*, *G.S.G. Bulletin*, XXVIII,1, 111-124. (1993).
5. Mountrakis D., Shallo M., Kiliyas A., Vranai A., **Zouros N.** & Marto A. Post emplacement tectonics and kinematic analysis of the Albanian ophiolites. In: *Proceedings of the 6th Congress of the Geological Society of Greece (G.S.G.)*, *G.S.G. Bulletin*, XXVIII,1, 137-150. (1993).
6. Caputo R. & **Zouros N.** Examples of Alpidic deformation from Epirus. Local anomalies or need to re-evaluate the amount of shortening in the western Hellenides. In:

Proceedings of the 6th Congress of the Geological Society of Greece (G.S.G.), G.S.G. Bulletin, XXVIII, 1, 315-326. (1993).

7. Christaras B., **Zouros N.** & Makedon Th. Slope stability phenomena along the Egnatia highway: The part Ioannina - Metsovo, in Pindos mountain chain, Greece. In: *Proceedings of the 7th International Congress of the International Association of Engineering Geologists (IAEG)*, 5-9 September, Lisboa, Portugal, Balkema p. 3951-3958. (1994).
8. Boccalletti M., Caputo R., Mountrakis D., Pavlides S. and **Zouros N.** Palaeoseismicity of the Souli fault, Epirus, Western Greece. In: *Proceedings of the workshop on Paleoseismology*, 18-22 September 1994, Menlo Park, California p. 21-23. (1994).
9. Dotsika E., Fytikas M., Mountrakis D., Papageorgiou F. and **Zouros N.** Geothermal exploration in Mytilene area (Lesvos island Greece). In: *Proceedings of the World Geothermal Congress*, Florence, 18-31 May, pp 989-994. (1995).
10. Christaras B., **Zouros N.** & Makedon Th. Behaviour of the Votonosi formation in Pindos mountain (Greece). In: *Proceedings XI ECSMFE Copenhagen '95*, 7, 7.23-7.28. (1995).
11. Mountrakis, D., Pavlides S., **N. Zouros**, A. Chatzipetros and D. Kostopoulos. The 13th May 1995 Western Macedonia (Greece) earthquake. Preliminary results on seismic fault geometry and kinematics. In: *Proceedings of the XV Congress, Carpatho-Balkan Geological Association, Symposium on the Seismicity of the Carpatho-Balkan region. Special Publication of the Geological Society of Greece*. No 6, 112-121. (1996).
12. Pavlides S., Mountrakis D., **Zouros N.** and Chatzipetros A. Active fault geometry and kinematics; Thessaloniki 1978 (Ms=6.5) and Kozani-Grevena 1995 (Ms=6.6) earthquakes, Greece. In: *Proceedings of the 30th International Geological Congress*, 4-14 August 1996, Beijing, China. *VSP* Vol. 5 (1997), Ye Hong (Ed), Contemporary Lithospheric Motion, Seismic Geology. (1997).
13. Christaras B., **Zouros N.**, Makedon Th. and Dimitriou A. Common mechanism of landslide creation along the under construction Egnatia highway in Pindos mountain range (N. Greece). In: *Proceedings of the 30th International Geological Congress*, 4-14 August 1996, Beijing, China, *VSP* Vol. 5 (1997).
14. Christaras B., **Zouros N.**, Makedon Th. and Dimitriou A. Adverse geotechnical conditions in road construction. Sections of the new Egnatia highway across Pindos mountain range (N. Greece). In: *Proceedings of the International Symposium of the International Association of Engineering Geologists (I.A.E.G.)*, Marinos, Koukis, Tsiambaos, Stournaras Eds, Balkema (1997).
15. Velitzelos E. and **N. Zouros**. The petrified forest of Lesvos - Protected Natural Monument. In: *Proceedings of the International Symposium of the International Association of Engineering Geologists (I.A.E.G.)*, Marinos, Koukis, Tsiambaos, Stournaras Eds, Balkema (1997).

16. Velitzelos E. and **N. Zouros** New results on the petrified forest of Lesvos. In: *Proceedings of the 8th International Congress of Geological Society of Greece (G.S.G.), G.S.G. Bulletin*, vol. XXXII/2, 133-142. (1998).
17. Pavlides S., S. Kociu P. Mukelli, A. Hyseni, **N. Zouros**. Archaeological evidence for recent seismic activity in Butrinti (SW Albania) and neotectonics of the area» In: *Proceedings of the 9th Congress of the Geological Society of Greece (G.S.G.), G.S.G. Bulletin*, XXXIV/1, 311-319. (2001).
18. Mountrakis D., Thomaidou E., **Zouros N.** and Kiliass A. Kinematic analysis and tertiary evolution of the Lesvos ophiolites and metamorphic sole (Aegean sea, Greece). In: *Proceedings of the 9th Congress of the Geological Society of Greece (G.S.G.), Bulletin of the Geological Society of Greece* vol XXXIV/1, 267-274. (2001)
19. Gropelli G., Pasquare G., Calvari S., Carpa L., Corazzato C., De Beni E., Diliberto T., Marcias J.L., Misuraca A., Natoli E., Norini G., Tanner L., Valiakos I. & **Zouros N.** Volcano flank collapse : the case of Etna volcano (Italy), Nevado de Toluca (Mexico), Lesvos (Greece). First International Workshop on Volcano-Basement interplay. UNESCO-IUGS-IGCP. Project No 455, p.9-11. (2001).
20. Pavlides S., S. Kociu P. Mukelli, A. Hyseni, **N. Zouros**. Neotectonics of southern Albania and archaeological evidence for seismic activity in Butrint. In: *Proceedings of the 4th International symposium on Eastern Mediterranean geology*. Isparta, Turkey, pp1-20. (2002).
21. **Zouros N.** The petrified forest of Lesvos-Greece: Principles and problems for a sustainable management. *Proceedings of the 2nd European Geoparks Network Meeting*, Lesvos 3-7 October 2001, p. 45-63. (2003).
22. **Zouros N.** Martini G. Introduction to the European Geoparks Network. *Proceedings of the 2nd European Geoparks Network Meeting*, Lesvos 3-7 October 2001, p. 17-21. (2003).
23. Theodossiou-Drandaki I., R. Nakov, W.A.P. Wimbledon, A. Serjani, A. Neziraj H., Hallaci, G. Sijaric, P. Begovic, Sv. Petrussenko, Pl. Tchoumatchenco, T. Todorov, I. Zagorchev, M. Antonov, D. Sinnyovski, A. Diakantoni, Ch. Fassoulas, G. Fermeli, D. Galanakis, A. Koutsouveli, A. Livaditi, K. Papadopoulou, P. Paschos, A. Rassiou, N. Skarpelis, **N. Zouros**, D. Grigorescu Al. Andrasanu, Br. Hlad, U. Herlec, N. Kazanci, F. Saroglu, A. Dogan, H. Inaner, M. Dimitrijevic, D. Gavrilovic, B. Krstic, D. Mijovic : IUGS Geosites project progress - a first attempt at a common framework list for South Eastern European Countries. *Proceedings of the Conference "Natural and cultural landscapes"*. Dublin 9-11/9/2002. (2003)
24. **Zouros N.**, Velitzelos E., Valiakos E., Ververis K. Submarine petrified forest in Lesvos Greece. *Proceedings of the 5th International Symposium on Eastern Mediterranean Geology*. Thessaloniki 14-19 April 2004 p. 437-440 (2004)
25. **Zouros N.** European Geoparks Network: geoconservation, promotion, education and local development. *Proceedings of the 5th International Symposium on Eastern Mediterranean Geology*. Thessaloniki 14-19 April 2004 p. 441-444. (2004).

26. Mourouzidou O., Pavlides S., Fytikas M., and **Zouros N.** The neotectonic characteristic structures at the area of Gavathas, Northern Lesvos island, (Aegean, Greece). *Proceedings of the 5th International Symposium on Eastern Mediterranean Geology*. Thessaloniki 14-19 April 2004 p. 861-864. (2004).