Alexandros Savvaidis [e-mail: alexandros@itsak.gr]
Institute of Engineering Seismology & Earthquake Engineering, Thessaloniki, Greece.

BORN: Thessaloniki, Greece

EDUCATION: Graduate of Geology, Aristotle University of Thessaloniki (1992).
M.Sc. in Geophysics, Aristotle University of Thessaloniki (1997).
Ph.D. Thesis in Applied Geophysics, Aristotle University of Thessaloniki (1998).
Post-Doc in Applied Geophysics, Aristotle University of Thessaloniki (1999-2000).
Research Visiting: Dept. Geophysics - Univ Uppsala, Inst. of GeoScience - Univ Potsdam, LGIT – UJF Grenoble, GFZ – Potsdam.

POSITION HELD: Cadet Researcher in the Engin. Seismology Division of the Institute of Engin. Seismology & Earthquake Engin. (2002-2006).
Assistant Researcher in the Engin. Seismology Division of the Institute (2006-2010).
Senior Researcher in the Engin. Seismology Division of the Institute (2010-today).

PRINCIPAL OFFICES IN SCIENTIFIC ORGANIZATIONS
European Geophysical Society (EGS)
European Association of Geoscientists and Engineers (EAGE)
Society of Exploration Geophysics (SEG)
American Geophysical Union (AGU)
Environmental and Engineering Geophysical Society (EEGS)
Geotechnical Chamber of Greece (GEOTEE)
Hellenic Geophysical Society (HGS), Treasurer of the Hellenic Geophysical Society, Branch of N. Greece
Hellenic Association of Geologists (HAG)

PRINCIPAL CONTRIBUTIONS TO GEOPHYSICS AND EARTHQUAKE ENGINEERING
- Crustal structure, mainly using the Magnetotelluric method of Geophysical Prospecting
- Application of the microtremor array method for the study of the upper layers of the earth, mainly for geotechnical purposes
- Application of different geophysical methods (seismic, gravity, magnetic, resistivity, georadar, etc.) for studying the upper layers of the earth, mainly for archaeological and geotechnical studies.
- Study of the radiation and attenuation of seismic waves as well as the results of the strong ground motion, mainly with the use of the macroseismic intensity data
- Study of seismic sequences

PUBLICATIONS & SCIENTIFIC REPORTS: More than 50 publications (22 in peer-reviewed Inter. Journals, 7 in National Journals, 16 in Proc. Inter. Conferences, 5 in Proc. National Conferences, 16 other publ.).

SELECTED PUBLICATIONS *[in International Peer-reviewed Journals & Conferences during the last 6 years]***:**

Ohrnberger M., Schissele E., Cornou C., Wathelet M., Savvaidis A., Scherbaum F., Jongmans D., Kind F., Microtremor Array Measurements For Site Effect Investigations: Comparison of Analysis Methods for Field Data Crosschecked by Simulated Wavefields, Procc. **13 WCEE**, Vancouver, 2004.

Ohrnberger M., Schissele E., Cornou C., Bonnefoy-Claudet S., Wathelet M., Savvaidis A., Scherbaum F., Jongmans D., Frequency Wavenumber And Spatial Autocorrelation Methods For Dispersion Curve Determination From Ambient Vibration Recordings, Procc. **13 WCEE**, Vancouver, 2004.

Panou, A.A., Theodulidis, N., Hatzidimitriou, M., Savvaidis A., and Papazachos, C.B. Reliability tests of horizontal-to-vertical spectral ratio based on ambient noise measurements in urban environment: The case of Thessaloniki city (Northern Greece), **PAGEOPH**, 162, 891-912, 2005.

Roumelioti, Z., Kiratzi, A., Theodoulidis, N., Panou, A., Savvaidis, A. and C. Benetatos. Earthquake ground motion scenarios in urban areas: the case of the city of Thessaloniki (northern Greece). In the Monograph: **Geodynamics of Balkan Peninsula**, *Editor: G. Milev;* (Special Issue of Reports on Geodesy, Warsaw Univ. of Technology – Inst. of Geodesy and Geodetic Astronomy), pp. 15, 2006.

Theodulidis, N., Roumelioti, Z., Panou, A., Savvaidis, A., Kiratzi, A., Grigoriadis, V., Dimitriou, P., and Xatzigogos, Th., Retrospective Prediction of Macroseismic Intensities Using Strong Ground Motion Simulation: The Case of the 1978 Thessaloniki (Greece) Earthquake (M6.5), **Bulletin of Earthquake Engineering**, 4, 101-130, 2006.

Savvaidis A., Cadet H., Gueguen P., Panou A., Michel C., Theodulidis N. and Kalogeras I., Accelerograph stations site characterization using ambient noise: Selected stations in Greece, Proc. **3rd Int. Symp. Effects of Surface Geology on Seismic Motion,** CD-Paper No. 64, 2006.

Triantafyllidis P., Theodulidis, N., Savvaidis, A., Papaioannou, Ch., and Dimitriu. P., Site effects estimation using earthquake and ambient noise data: the case of Lefkas town, **1st European Conference on Earthquake Engineering and Seismology**, Geneva, Switzerland 3-8 September 2006, paper number 1249.

Fah D., Theodulidis N., Savvaidis A., Inversion of local S-wave velocity structure from average H/V ratios and comparison with cross-hole measurements, Proc. **4th Inter. Conf. On Earthq. Geotech. Engin.**, Paper No. 1410, 2007.

Gurk, M., Smirnov, M., Savvaidis, A., Pedersen L.B., and O. Ritter. A 3D magnetotelluric study of the basement structure in the Mygdonian Basin (Northern Greece), **4th International Symposium on Three-Dimensional Electromagnetics** Freiberg, Germany, September 27–30, 189-192, 2007.

Gurk, M., Savvaidis, A., and Bastani, M., Tufa Deposits in the Mygdonian Basin (Northern Greece) studied with RMT/CSTAMT, VLF & Self-Potential, **22nd Elektromagnetische Tiefenforschung (EMTF)**, Decin, Czech Republic, 1-5 October 2007, 231-238.

Drouet, S., Triantafyllidis, P., Savvaidis, A., and Theodulidis, N., Comparison of site effects estimation methods using the Lefkas (Greece) 2003 earthquake aftershocks, **Bulletin of the Seismological Society of America**, Vol 98., No 5, pp 2349-2363, 2008.

Bastani, M., Savvaidis A., and Pedersen L., CSRMT measurements in the frequency range of 1-250 kHz to map a normal fault in the Volvi basin, Greece, **19th Workshop of IAGA WG 1.2 on Electromagnetic Induction in the Earth**, Beijing, China, 23-29 October, pp 77-82, 2008.

Endrun, B., Ohrnberger M., and Savvaidis A., On the repeatability and consistency of three-component ambient vibration array measurements, **Bull Earthquake Eng**, DOI 10.1007/s10518-009-9159-9, Volume 8, Number 3, 535-570, 2010.

Margaris, B., Athanasopoulos G., Mylonakis G., Papaioannou Ch., Klimis, N., Theodulidis N., Savvaidis A., Efthymiadou, N., and Stewart J., The 8 June 2008 Mw6.5

Achaia-Elia, Greece Earthquake: Source Characteristics, Ground Motions, and Ground Failure, **Earthquake Spectra**, 26, 399-424, 2010.