

# ***Prof. Akis Tselentis*** *MSc, PhD, DIC, FRAS, FSTP(Japan)*

*Professor of Seismology at National Kapodistrian University of Athens*

*Director of the Greek Geodynamic Institute*

*Director of the National Tsunami Awareness Center (UNESCO)*

## **PERSONAL**

**Name:** Tselentis, Akis-Gerasimos

**Date of Birth:** 05.09.1955

**Place of Birth:** Zaire, Africa

**Nationality:** Greek



## **EDUCATION:**

### **Universities**

**BSc** Honours Physics Athens University (1979)

**MSc** Geophysics Leeds University UK (1980)

**PhD** Geophysics Imperial College- London University (1983)

**DIC** Geophysics Imperial College- London University (1984)

**FSTP PostDoc** Seismology Tokyo University

## **PROFESSIONAL MEMBERSHIP**

- (i) European Association of Geoscientists and Engineers
- (ii) Society of Exploration Geophysics
- (iii) IAGC (International Association of Geophysical Contractors)
- (iiii) Seismological Society of Japan
- (iv) European Seismological Society
- (v) International Association of Earthquake Engineering
- (vi) International Association of Physics of the Earth's Interior

## **LANGUAGES**

English (fluent), Greek (native)

French (good), Italian (good), Japanese (basic)

## THESES

**M.Sc.:** *Gravity & Magnetic Survey of Dartmoor Granet SW England (1980)*

**Ph.D.:** *Assessment of rock transmissivity from downhole geophysical measurements (1983)*

**DIC.:** *Design of a heat pulse flowmeter for downhole measurements (1984)*

**Postdoc.:** *Assessment of crustal geophysical properties from Seismic Rayleigh wave (Tokyo University)*

*Crustal Dynamics Institute- Beijing – China on Elastodynamic response of the Earth's crust.*

## Programming Languages

**BASIC, C++, FORTRAN, TURBO PASCAL, JAVA, PERL, PITHON**, advanced knowledge in Electronic circuits design (analogue-digital) and radio and satellite communications.

## BOOKS

*Mathematical Analysis – Differential Equations 1981*

*Linear Algebra 1982*

*Tensor Analysis 1983*

*Modern Seismology (two volumes) 1992*

*Applied Geophysics 2014*

*General Seismology Vol. 1,2, 2016, 2017*

## PATENTS

**9 patents** in Geophysics, Electronics and Seismology

## INTERNATIONAL RECOGNITION

Hon. Member of the Russian Academy of Sciences

Visiting Professor at Charles University- Prague

Visiting Professor at Tokyo University

Visiting Prof at Bristol University-UK

Visiting Prof at Imperial College- London University


President of many International Geophysical meetings and conferences

## GOOGLE SCHOLAR

<https://scholar.google.gr/citations?user=B09xJ74AAAAJ&hl=en&oi=ao>

## CAREER DETAILS

-  Researcher at *Bullard Laboratories* of the University Cambridge.
-  MSc Geophysics tutor at *Imperial College* of London University during my PhD.
-  Researcher at the Geophysics and Geothermy Department of Athens University.
-  Professor of Signal processing at the National Greek Military Academy.
-  Senior Geophysicist at the National Institute of Geological and Mineral Exploration.
-  Visiting Researcher Earthquake Research Institute- Tokyo
-  Senior Geophysicist at Schlumberger
-  1989-1992 Assistant Professor of Seismology and Geophysics at Patras University.
-  1992-1997 Associate Professor of Seismology and Geophysics at Patras University.
-  1997- 2014 Full Professor of Seismology and Geophysics at Patras University and director of the Seismology and Geophysics labs.
-  2015 Elected as Professor of Geophysics at Athens University
-  2015 Elected as General Director of the Greek Geodynamic Institute
-  2015 Elected as the General Director of the National Tsunami Center

 2017 Professor at Athens University

## RESEARCH SPECIALTY

*Seismic Tomography, Inverse Theory, Signal Processing, Applied Geophysics, Engineering Seismology, Seismic Interferometry, Neural Networks in geophysical Applications, Tsunami Modelling.*

## EDUCATION EXPERIENCE

Lecturing on Theoretical Geophysics at Bullard Labs, Cambridge University.

Lecturing on Applied Geophysics at Imperial College/ Royal School of Mines, London University.

Professor of Signal Processing at Greek National Military Academy (SMA).

Lecturing on Engineering Seismology at Earthquake Research Institute, Tokyo University.

Prof. of Geophysics and Seismology Patras University.

Prof. of Seismology Athens University.

Lectured in various postgraduate courses in many Institutes in Greece and abroad.

I have supervised as Principal Supervisor 17 PhD Thesis.

I have published 7 Text books on Mathematics, Seismology and Geophysics.

## MANAGEMENT EXPERIENCE

Director of Teletime TV channel

Director of Geophysics and Seismology Lab. of Patras University

General Director of Greek Geodynamic Institute

General Director of Tsunami Prediction Center (UNESCO)

## PUBLICATIONS

- 1] **Tselentis G-A.** *Application of hot-wire (-film) flow meters to water velocity measurements in wells* Jr. of Hydrology, 58, 375-381 **1982**
- 2] King G, **Tselentis G-A.**, et.al. *Micro earthquake seismicity and active tectonics of Northwestern Greece* Earth Planet Sci. Lett. 66, 279-288 **1983**
- 3] **Tselentis G-A.** *An investigation of the principles of operation of the heat-pulse flowmeter.* Jr. of Hydrology, 69, 335-349 **1984**
- 4] **Tselentis, G.-A.** *A study of the hydrogeophysical properties of fissured aquifers using a double porosity model* Jr. of Hydrology, 78 , pp. 331-344. **1985**
- 5] **Tselentis, G.-A.** *An investigation of the relation between fissure flow and degree of contact area by an electric analogue model.* Jr. of Hydrology, 78 , pp. 325-330. **1985**
- 6] **Tselentis, G.-A.** *The processing of geophysical well logs by Microcomputers as applied to the solution of Hydrogeological problems.* Jr. of Hydrology, 78 , pp. 331-344. **1985**
- 7] Thanassoulas, C., **Tselentis, G.-A.** Kolios, N. *Geothermal prospecting by Geoelectric Soundings in NE Greece*, Geophys. Prosp. 34, 83–97 **1986**
- 8] **Tselentis, G.-A.** *On-site assessment of rock discontinuities from resistivity logs. T-L log: a new logging technique.* Jr. of Hydrology, 83, pp. 269-283 **1986**
- 9] **Tselentis G-A.** Makropoulos K. *Rates of crustal deformation in the Gulf of Corinth (Central Greece) as determined from Seismicity.* Tectonophysics 124, P. 55-66. **1986**
- 10] Dimitriadis K., **Tselentis G-A.** Thanassoulas K. *A Basic program for 2-D spectral analysis of Gravity data and source-depth estimation.* Computers & Geosciences Vol. 13. No. 5. pp. 549-560. **1987**
- 11] Thanassoulas C, **Tselentis G-A,** Traganos G. *A preliminary resistivity investigation (VES) of the Langada Hot-Springs area in Northern Greece* . Geothermics 16 (3): 227-238 **1987**
- 12] **Tselentis G-A.** and Stavrakakis G. *A simple method of quantifying the dependence of the depth of the hypocenter of an earthquake upon the velocity model.* Computers & Geosciences Vol. 13. No. 3. pp. 215-220. **1987**

- 13] Stavrakakis, G.N., **Tselentis**, G.A. *Bayes probabilistic prediction of strong earthquakes in the main Seismogenic Zones of Greece*. Boll. Geofis. Teor. Applic., 1987, 113 pp.51-63  
**1987**
- 14] Thanassoulas C, **Tselentis** G-A, Dimitriadis K *Gravity inversion of a fault by Marquardt's method* Computers & Geosciences 13 (4): 399-404 **1987**
- 15] Stavrakakis, G., G-A. **Tselentis**, J. Drakopoulos *Iterative deconvolution of teleseismic P waves from the Thessaloniki (N. Greece) earthquake of June 20* Pageoph 124(6), 1039 – 1050.  
**1987**
- 16] **Tselentis** G-A., Thanassoulas C. Stavrakakis G. *Seismic response Analysis of the foundation area of the Acheloos river dam (Central Greece) as determined from a seismic refraction survey and the Boundary-Element Method*. Geoexploration, 24, pp. 197-206. **1987**
- 17] **Tselentis**, G-A., Drakopoulos,J., Dimitriadis, K. *A spectral approach to Moho depths estimation from Gravity measurements in Epirus (NW Greece)*. Let. Phys. Earth, 36, 255-266.  
**1988**
- 18] **Tselentis** G-A. Drakopoulos J., Makropoulos C. *On the frequency dependence of Q in the Kalamata South Greece region as obtained from the analysis of the coda of the aftershocks of the Kalamata 1986 earthquake* Tectonophysics, 152, 157-159 **1988**
- 19] **Tselentis** G-A, Stavrakakis G, Makropoulos K, Latousakis J, Drakopoulos J. *Seismic moments of earthquakes at the Western Hellenic Arc and their application to the Seismic Hazard of the area*. Tectonophysics 148 (1-2): 73-82 Apr 15 **1988**
- 20] G-A. **Tselentis**, A. Sofianos, D. Paliatsas, K. Makropoulos J. Drakopoulos. *A Rock Mass assessment experiment in the Artemission tunnel (Central Greece) using seismic attenuation measurements*. Geoexploration, 25, 219-228 **1988**
- 21] **Tselentis** G-A., Drakopoulos J.and Makropoulos K., 1988 *Site effects on seismograms of local earthquakes in the Kalamata Region Southern Greece*. Bull. of the Seismol. Soc. of America, Vol. 78, No. 4, pp. 1597-1602 **1988**
- 22] **Tselentis** G-A., Makropoulos K., Drakopoulos J., N.Voulgaris. *Cluster and spectral characteristics of the aftershock activity of the Kalamata. Sept 13 1986 earthquake*. Southern Greece. Tectonophysics 169, 135-148. **1989**

- 23]** Tselentis, G-A. *Interstation surface wave attenuation by autoregressive deconvolution* Pure Appl. Geophys. 133, 429–446 **1990**
- 24]** Tselentis G-A, Drakopoulos J. *Stress transfer and nonlinear stress accumulation at the North Anatolian Fault, Turkey* Pure And Applied Geophysics 132 (4): 699-710 **1990**
- 25]** Tselentis A-G *An Attempt To Define Curie-Point depths in Greece from Aeromagnetic and heat-flow data* Pure And Applied Geophysics 136 (1): 87-101 **1991**
- 26]** Ifantis A., Tselentis G-A., Varotsos P., Thanassoulas C. *Long term variations of the earth's electric field preceding two earthquakes in Greece.* Acta Geophysica Polonica XLI,4, 337-350. **1992**
- 27]** Tselentis A-G *Temporal variation of body wave attenuation as related to 2 earthquake doublets in W Greece* Pure And Applied Geophysics 140 (1): 49-62 **1993**
- 28]** Tselentis G-A *Depth-Dependent seismic attenuation in Western Greece* Tectonophysics 225 (4): 523-528 **1993**
- 29]** Thanassoulas C, Tselentis G-A *Periodic variations in the Earths electric-field as earthquake precursors - Results from recent experiments in Greece* Tectonophysics 224 (1-3): 103-111 **1993**
- 30]** Tselentis G-A. and Ifantis A., *Self potential variation with time and their possible relation with seismic activity at an observation site in W. Greece.* Acta Geophysica Polonica XLI,3,269-279. **1993**
- 31]** Tselentis G-A. *Shallow attenuation in the West Corinth-Patras Rift, Greece* Bul. of The Seismol. Soc. Of America 83 (2): 603-609 **1993**
- 32]** Tselentis G-A, Melis N, Sokos E, Papatsimpa K. *The Egion June 15 1995 (6.2 M(L)) earthquake Western Greece* Pure And Applied Geophysics 147 (1): 83-98 **1996**
- 33]** Tselentis G-A, Melis N. *A note on evaluating VAN earthquake predictions* Geophys. Research Letters 23 (11): 1411-1414 **1996**
- 34]** Tselentis G-A. and Sokos E. *Site specific design motions at a site near Pyrgos city, W. Greece.* Advances in Earthquake Engineering, Vol., 2, 47-55 **1993**

- 35]** Tselentis G-A., and Pilouras, N., **1996**: Seismic imaging of Karst. Trans. On Ecology and the Environment. Vol.19, 17, pp.541-550.
- 36]** Tselentis G-A. and Ifantis A. *Geoelectric variations related to earthquakes observed during a 3-year independent investigation*. Geophysical Research Letters, 23, 11, 1445-1448. **1996**
- 37]** Tselentis G-A *Evidence for stability in Coda Q associated with the Egion (Central Greece) earthquake of 15 June 1995*. Bul. Seismol. Soc. of America 87 (6): 1679-1684 **1997**
- 38]** Tselentis G-A, Melis N, Sokos E, Beltas P. *The Winter 1991-1992 Earthquake Sequence At Cephalonia Island, Western Greece* Pure And Applied Geophysics 150 (1): 75-89 **1997**
- 39]** Tselentis G-A. *Intrinsic and scattering seismic attenuation in W. Greece* Pure And Applied Geophysics 153 (2-4): 703-712 **1998**
- 34]** Melis N, Tselentis G-A. *3-D P-Wave velocity structure in Western Greece determined from tomography using earthquake data recorded at the University of Patras seismic network (PATNET)* Pure and Applied Geophysics 152 (2): 329-348 **1998**
- 41]** Tselentis G-A, Delis G. *Rapid assessment of S-Wave profiles from the inversion of multichannel surface wave dispersion data*. Annali Di Geofisica 41 (1): 1-15 **1998**
- 42]** Tselentis G-A. *Fault lengths during the Patras 1993 earthquake sequence as estimated from the pulse width of initial P wave*. Pure And Applied Geophysics, 152,1, pp. 75-89. **1998**
- 43]** Plicka V, Sokos E, Tselentis G-A, Zahradnik J. *The Patras earthquake (14 July 1993): Relative roles of source, path and site effects* Jr. of Seismol. 2 (4): 337-349 **1998**
- 44]** Tselentis G-A., Kallergis G., et al. *Saline water intrusion monitoring and control at Guves Prefecture – Crete*. Water Pollution, 5, 437-475. **1999**
- 45]** Novotny O, Zahradnik J, Tselentis G-A. *Northwestern Turkey earthquakes and the crustal structure inferred from surface waves observed in Western Greece* Bul. Seismol. Soc. of America 91 (4): 875-879 **2001**
- 46]** Tselentis G-A, Zahradnik J *Aftershock monitoring of the Athens earthquake of 7 September 1999*. Seism. Res. Lett., 71, 330-337. **2000**



- 47]** Tselentis G-A, Zahradnik J *The Athens Earthquake Of 7 September 1999* Bul. Seismol. Soc. of America 90 (5): 1143-1160 **2000**
- 48]** Tselentis G-A, P. Paraskevopoulos *Application of a high-resolution seismic investigation in a Greek coal mine* Geophysics 67 (1): 50-59 2002.
- 49]** Burton, P. W., Xu, Y., Tselentis, G-A., Sokos, E., & Aspinall, W *Strong ground acceleration seismic hazard in Greece and neighboring regions.* Soil Dynamics and Earthquake Engineering 23, 159-181. **2003**
- 50]** Kapotas, S., Tselentis G-A., & Martakis, N. *Case Study in NW Greece of passive seismic tomography: a new tool for hydrocarbon exploration.* First Break, 21, 37-42. **2003**
- 51]** Ifantis A., Economou G., & Tselentis G-A. *Experimental investigation of electrotelluric field periodic anomalies in Western Greece and their possible relation to seismicity during a five year period.* Acta Geophysica Polonica, 51,3, 291-305 **2003**
- 52]** Xu Y., Burton, P.W., Tselentis, G-A. *Regional seismic hazard for Revithoussa, Greece: an earthquake early warning Shield and selection of alert signals.* Natural Hazards and Earth System Sciences, 3: 757–776. **2003**
- 53]** Jansky, J., Zahradnik, J., Sokos, E., Serpetsidaki, A., Tselentis G-A. *Relocation of the 2001 earthquake sequence in Aegion Greece.* Geophysics and Geodesy, 48, 2, 331-334 **2004**
- 54]** Burton, P. W., Qin, C., Tselentis, G-A., & Sokos, E *Extreme earthquake and earthquake perceptibility in Greece and its surrounding area.* Natural Hazards 32: 277–312 **2004**
- 55]** Burton, P. W., Xu, Y., Qin, C., Tselentis, G-A., & Sokos, E. *A catalogue of seismicity in Greece and the adjacent areas for the twentieth century.* Tectonophysics 390, 117–127 **2004**
- 56]** C. Naville, S. Serbutoviez, I. Tselentis G-A. *Pre-drill surface seismic in the vicinity of the AIG-10 well and post-drill VSP.* Geoscience, 336, 407–414 **2004**
- 57]** J. Zahradník, A. Serpetsidaki, E. Sokos and G-A Tselentis. *Iterative Deconvolution of Regional Waveforms and a Double-Event Interpretation of the 2003 Lefkada Earthquake, Greece.* Bull. eismol. Soc. Of America, Vol. 95, No. 1, 159-172. **2005**

- 58]** Tselentis G-A, L. Danciu and Gika, F. *Empirical Arias Intensity attenuation relationships for the seismic hazard analysis of Greece*. Earthquake resistant engineering Structures, V 81, pp 33-41. **2005**
- 59]** S. Gautier, D. Latorre, J. and G-A. Tselentis. *A New Passive tomography of the Aigion Area (Gulf of Corinth, Greece) from the 2002 Data Set*. Pure Appl. Geophys. 163, 431–453. **2006**
- 60]** N. Martakis, S. Kapotas and G-A Tselentis. *Integrated passive seismic acquisition and methodology*. Case Studies. Geophysical Prospecting, 54, 829–847 **2006**
- 61]** G-A. Tselentis, E. Sokos, N. Martakis and A. Serpetsidaki. *Seismicity and Seismotectonics in Epirus, Western Greece: Results from a Microearthquake Survey*. Bull. Seismol. Soc. of America, Vol. 96, No. 5, 1706–1717 **2006**
- 62]** G-A. Tselentis, Gkika, F., and Sokos E. *Tsunami hazards associated with the Perachora fault at Eastern Corinth Gulf-Greece*. Bull. Seismol. Soc. of America Vol. 96, No. 5, 1649–1661 **2006**
- 63]** Tselentis, G-A. Serpetsidaki, A. Martakis, et. al. *Local high resolution passive seismic tomography and Kohonen neural networks, application at the Rio-Antirrio Strait, Central Greece*. Geophysics, Vol. 72, B93 **2007**
- 64]** L. Danciu and G-A. Tselentis. *Engineering Ground Motion parameters attenuation relationships for Greece*. Bull. Seismol. Soc. of America Vol 97, No 1b, pp. 162-183 **2007**
- 65]** J. Zahradnik, E. Sokos, G-A. Tselentis, N. Martakis *Non-double-couple mechanism of moderate earthquakes near Zakynthos, Greece, April 2006; explanation in terms of complexity*. Geophysical Prospecting Vol. 56, Iss. 3, pp:341-356 **2008**
- 66]** G-A. Tselentis and L. Danciu *Empirical relationships between modified Mercalli intensity and Eng. ground-motion parameters in Greece* Bull. Seism. Soc. Am. 98 : 1863 **2008**
- 67]** Kiratzi, A., Sokos, E., Ganas A., Tselentis G-A., et. al. *The April 2007 earthquake swarm near Lake Trichonis and implications for active tectonics in western Greece*. Tectonophysics, 452, 51-65. **2008**

- 68]** J. Zahradnik, F. Gallovic, E. Sokos, A. Serpetsidaki and G-A. **Tselentis** *Quick Fault-Plane identification by a geometrical method: Application to the Mw 6.2 Leonidio Earthquake, 6 January 2008, Greece.* Seismological Research Letters Volume 79, Number 5 **2008**
- 69]** F. Gallovic, J. Zahradnik, D. Krizova, V. Plicka, E.Sokos, A.Serpetsidaki and **Tselentis** G-A. From earthquake centroid to spatial-temporal rupture evolution: Mw 6.3 Movri Mountain earthquake, June 8, 2008, Greece. Geophysical Research Letters, Vol.36, L21310. **2009**
- 70]** G-Akis **Tselentis**, Paraskevas Paraskevopoulos *Site response analysis of Vartholomio W-Greece from singular spectrum analysis of microtremor and weak motion data.* Jr. of Structural Dynamics & Earthquake Engineering vol. 30, no. 5, pp. 378–394. **2010**
- 71]** G-A., **Tselentis**, Danciu L., *Probabilistic seismic hazard assessment in Greece - Part 1: Eng. ground motion parameters* Nat. Hazards and Earth System Sciences Vol.10 Issue 1 pp: 25-39 **2010**
- 72]** G-A **Tselentis**, Danciu, L., Sokos E. *Probabilistic seismic hazard assessment in Greece - Part 2: Acceleration response spectra and elastic input energy spectra* Nat. Hazards and Earth System Sciences Vol.: 10 Issue 1 pp 41-49 **2010**
- 73]** G-A **Tselentis**, Danciu L. *Probabilistic seismic hazard assessment in Greece - Part 3: Deaggregation* Nat. Hazards and Earth System Sciences Vol. 10 Issue 1 pp 51-59 **2010**
- 74]** G-A. **Tselentis** and L. Vladutu *An attempt to model the relationship between MMI attenuation and Eng. ground motion parameters using artificial neural networks and genetic algorithms.* Nat. Hazards & Earth System Sciences. 10,12, 2527-2537 **2010**
- 75]** G-A. **Tselentis** et. al., *Tsunami hazard assessment in the Ionian Sea due to potential tsunamogenic sources – Results from numerical simulations* Natural Hazards & Earth Science Systems, 10, 5, 1021-10-30 **2010**
- 76]** G-A **Tselentis**, P. Paraskevopoulos, N. Martakis *Intrinsic  $Q_p$  seismic attenuation from the rise time of microearthquakes: a local scale application at Rio-Antirrio.* Geophysical Prospecting Volume 58, Issue 5, pages 845–859 **2010**
- 77]** A. Serpetsidaki, E. Sokos, G-A. **Tselentis**, J. Zahradnik *Seismic sequence near Zakynthos Island, Greece, April 2006: Identification of the activated fault plane.* Tectonophysics 480,1-4, pp23-32 **2010**

**78]** Tselentis, G.-A., Martakis, N., Paraskevopoulos, P., Lois, A. *High-resolution passive seismic tomography for 3D velocity, Poisson's ratio  $\nu$ , and P-wave quality  $QP$  in the Delvina hydrocarbon field, southern Albania* Geophysics, 76 (3), pp. B89-B112 **2011**

**79]** G-A. Tselentis and P. Paraskevopoulos *On the use of Kohonen Neural networks for site effects assessment by means of H/V spectral ratio – Application in Rio Antirio (Greece)*. Bull. Seism. Soc. of America V. 101, no. 2; 579-595 **2011**

**80]** G-A. Tselentis *Assessment of Arias Intensity of historical earthquakes using modified Mercalli intensities and artificial neural network*. Natural Hazards and Earth System Science, Volume 11, Issue 12, pp.3097-3105 **2011**

**81]** E. Sokos, J. Zahradník, A. Kiratzi, J. Janský, F. Gallovič, O. Novotny, J. Kostelecký, A. Serpetsidaki, G.-A. Tselentis *The January 2010 Efpalio earthquake sequence in the western Corinth Gulf (Greece)*. Tectonophysics 530-531 pp. 299–309. **2012**

**82]** A. Serpetsidaki, G-A. Tselentis, N. Martakis and E. Sokos *Seismicity and seismotectonics study in Southwestern Albania using a local dense seismic network*. Bull. Seismol. Soc. of America V. 102 no. 5 pp. 2090-2097 **2012**

**83]** G-A Tselentis, N. Martakis, P. Paraskevopoulos, A. Lois, and E. Sokos, **2012**: *Strategy for automated analysis of passive microseismic data based on S-transform, Otsu's thresholding, and higher order statistics*. Geophysics, V.77, No. 6 pp. KS43–KS54 **2012**

**84]** A. Lois, E. Sokos, N. Martakis, P.Paraskevopoulos & G-A Tselentis *A new automatic S-onset detection technique: Application in local earthquake data*. Geophysics, V.78, No. 1 pp. KS1-KS11. **2013**

#### **Publications In Proceedings of Conferences**

**85]** Thanassoulas C., Gioni G., Tselentis G-A. and Dimitriadis K., **1986**:

*An Integrated Geophysical Investigation of Kavasila Low-Enthalpy Geothermal Field (NW Greece)*. Paper presented at The 49th.Meeting 9-12 June, Belgrade Yugoslavia

**86]** Thanassoulas C. and Tselentis G-A., **1986**: *Observed Periodic Variations of The Earths Electric Fields Prior To Two Earthquakes In N. Greece*. 8<sup>th</sup> European Conference on Earthquake Engineering, September 7 -12.

- 87]** Tselentis G-A., et. al., **1987:** *Deep Basement Structure And Curie Point Depth Of The Sousaki - Loutraki (Central Greece) Geothermal Field As Obtained From The Analysis Of Aeromagnetic Measurements.* Paper Presented at the 49th EAEG Meeting 9-12 June, 1987 Belgrade, Yugoslavia
- 88]** Tselentis G-A., A. Sofianos, D. Paliatsas, K. Makropoulos and Drakopoulos, I., **1988:** *Seismic signal and Rock Quality indicator.* Proceed. First Hellenic Conference on Geotechnical Engineering. Athens, 3-5 Feb.
- 89]** Tselentis G-A., and Drakopoulos J., **1988:** *Stress transfer and non-linear stress accumulation at the North Anatolian fault, Turkey.* United Nations, Conference on the prediction of earthquakes, Lisbon, Portugal, 14-18 Nov.
- 90]** Makropoulos K., N. Voulgaris, J. Drakopoulos and Tselentis G-A., **1988:** *Cluster and spectral characteristics of the aftershock activity in September 1986, at Kalamata, Southern Greece.* United Nations, Conference on the prediction of earthquakes, Lisbon, Portugal, 14-18 Nov.
- 91]** Drakopoulos J., K. Makropoulos and Tselentis G-A., **1988:** *On the use of Geophysical methods for the solution of Geotechnical problems in Greece.* Examples. Proceed. Of 3<sup>rd</sup> Conference of the Geol. Soc. Greece, May. , Vol. XX/3, pp.303-309.
- 92]** Tselentis G-A., **1989:** *Stress Drops of In and Near The Mid-Atlantic Ridge, as Revealed from Body-Wave Pulse Analysis.* Paper Presented At The 25th General Assembly Of IASPEI, Constantinoupolis, Turkey.
- 93]** Tselentis G-A., **1989:** *Stress Tensor Determination at the Aftershock area of Kalamata Sept. 13 1986 (S. Greece) Earthquake, using Akaike's Bayesian Information Criterion (ABICI, and Culombs Failure Criterion.* Paper Presented At The 25th General Assembly of IASPEI, Constantinoupolis, Turkey.
- 94]** Theofanopoulos N. and Tselentis G-A., **1989:** *Synthesis Of Body And Surface Wave motion in Athens due to The Expected Atalanti Earthquake.* Paper Presented At The 25th General Assembly of IASPEI, Constantinoupolis, Turkey.
- 95]** Makropoulos K., Tselentis G-A., Voulgaris N., Drakopoulos J., **1989:** *A Complete Seismicity And Hazard Assessment Study At The Rio-Antirio (W. Greece) Planned Bridge Site.* Paper Presented at The 25<sup>th</sup> General Assembly of IASPEI, Istanbul, Turkey.

- 96]** Makropoulos K., Voulgaris N. Drakopoulos J. **Tselentis G-A., 1989:** *Analysis Of Earthquake Sequences Using The Principal Parameters Method.* Paper Presented At The 4<sup>th</sup> Intern. Symposium On The Analysis of Seismicity and Seismic Risk, Sept. 4-9, Bechyne, Czechoslovakia. Proceed. pp,49-57.
- 97]** **Tselentis G-A., 1989:** *Synthesis Of Strong Ground Motion In Greece- An Alternative View.* Paper presented at the 4<sup>th</sup> Intentional Symposium On Analysis of Seismicity and Seismic Risk. Sept 4-9, Bechyne, Czechoslovakia. Proceed. Pp.394-402.
- 98]** **Tselentis G-A., 1989.** *The Contribution Of Geophysics For The Assessment Of The Seismic Hazard In A Region.* Invited Paper Presented At The 5th National Conference of the Hellenic Physics Union, Athens 16-20. Dec.
- 99]** **Tselentis G-A., Delis G. and Paliatsas D., 1989:** *GEOEL - A New Program In C For The Automatic Inversion Of Resistivity Curves.* Paper Presented at the 5<sup>th</sup> National Conference of the Hellenic Physical Union, Dec. 17-18, Athens. Also 1st National Greek Hydrogeological Conference, Oct.14-17-Nicosia, Cyprus. Proc. Bull.6, 258-265.
- 100]** **Tselentis G-A. Sokos E. And Melis N.S., 1990:** *Assessment Of Representative Earthquake Motions for Patras Seismic Scenario.* Proceedings Of The 5th Intern. Conf. On Seismic Zonation. Oct.17-19, Nice France. Vol II, 1383-1391
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