

## **I) CURRICULUM VITAE Senior Researcher Thomas Salonikios, Dipl. Eng, Phd**

### **1. PERSONAL DATA**

Surname: SALONIKIOS Name : Thomas Date of birth: November 5, 1965 Place of birth: Thasos, Greece  
Nationality: Greek Marital status: Married Work address: Earthquake Planning and Protection Organization  
(E.P.P.O)

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### **2. EDUCATIONAL BACKGROUND**

- Graduate of the High School of Thasos
- Diploma in Civil Engineering (5-year course) from the Aristotle Univ. of Thessaloniki (1990) – Grade: 8 (80%)
- Visitor Researcher at the Technical University of Darmstadt for training on the up-to-date experimental methods in Earthquake Engineering (1994)
- • Doctoral Degree in Civil Engineering from Aristotle Univ. of Thessaloniki (1998) – Grade: 10 (100%)

#### **Awards - Scholarships of Excellence**

Award from Aristotle University of Thessaloniki for the excellence of the supervised students during their practical work for the year 2017.

2016 Award by Elsevier for Outstanding Contribution in Article Reviewing.

2016 Global Best Project Award, for Culture Category, to Stavros Niarchos Foundation Cultural Center (SNFCC) from the Industry magazine Engineering News Record (USA). Participation in the design team regarding the structural implementation design for G. and G. Penelis Consulting Engineers and Structural Monitoring of substructures for the construction Joint Venture Salini Impregilo - Terna.

2016 iStructure, Structural Award by the Institute of Structural Engineers (UK), to Stavros Niarchos Foundation Cultural Center (SNFCC). Participation in the design team regarding the structural implementation design for G. and G. Penelis Consulting Engineers and Structural Monitoring of substructures for the construction Joint Venture Salini Impregilo - Terna.

Post-graduate scholarship for the years 1991 – 1995

Pre-graduate scholarship for the academic years 1987-88, 1988-89

#### **Foreign languages**

English

### **3. RESEARCH CAREER**

#### **Research and teaching activities**

• May 1991 – February 1998: Teaching and Research Assistant at the Laboratory of Concrete Structures, Civil Engng. Dept., Aristotle Univ. of Thessaloniki of the following subjects: -“Reinforced Concrete II” -“Reinforced Concrete III”

- May 1991 – 2010: Administrator, programmer and operator for the automatic loading – record system for experimental testing at the Laboratory of Concrete Structures, Civil Engng. Dept., Aristotle Univ. of Thessaloniki
- March 2000 – Today: Participation to the advisory and/or examination committees for doctoral students in Civil Engineering Department, Aristotle Univ. of Thessaloniki –
- March 2000 – November 2003: Novice Researcher at the Structural Division at the Institute of Engineering Seismology and Earthquake Engineering (ITΣAK)

- November 2003 – June 2008: Assistant Researcher at the Structural Division at the Institute of Engineering Seismology and Earthquake Engineering (ITΣAK)
- June 2008 – Today: Senior Researcher at the Structural Division at the Institute of Engineering Seismology and Earthquake Engineering (ITΣAK). ITΣAK was merged with Earthquake Planning and Protection Organization (EPPO) since August 2011. Thomas Salonikios is a Senior Researcher at EPPO. Continuing education -seminars
- March 2000 – 2007: Organization of over 25 keynote lectures, with invited speakers, in important research and/or professional subjects
- March 2000 – Today: Organizer and member of speakers' team for ITΣAK contribution to the national program for the education and training of volunteer rescuers that operate during and after natural disasters
- January 2009 – Today: Trainer for the seminars organized, for engineers, by professional bodies in Greece for EUROCODES
- 2011: Trainer to the National School of Public Administration and Local Government of Greece.
- From July 2012: Trainer for the seminars organized, for engineers, by professional bodies in Greece for the Code for Intervention to Existing Reinforced Concrete Buildings (KAN.EΠE.) Contribution to the progress of main employment organization, ITΣAK
- Completion of the preliminary design and drawings for the new laboratory and office building of ITΣAK
- Member of the ITΣAK personnel team, for the preparation of the proposal, for the financing of the new office building of ITΣAK. Ensuring of 1.800.000Euros. The building is under construction and is expected to be built in by March 2013.
- President of the ITΣAK scientific personnel committee for years 2007 – 2008 and 2010 – 2011
- Member of examination committee for new scientific personnel at ITΣAK
- Member of committees for electronic data processing center and for data management of the National Accelerograph Network

#### **4. MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL BOARDS**

- Vice – president of the Hellenic Scientific Society of Concrete Research, EPES, (2011)
- Secretary General of the Hellenic Scientific Society of Concrete Research, EPES, (2008 – 2010). Member of the society since 2000.
- Member of the Hellenic Society of Earthquake Engineering since 2002
- Member of the Technical Chamber of Greece (TCG) since 1991
- Member of the association of Civil Engineers of Greece since 1991
- Commissary and member of the Permanent Committee on Earthquake Mitigation of the TCG/Central Macedonia, Greece, 1992 -1994. Member of the Permanent Committee of Novel Technologies, Research and Technological Development of the TCG/Central Macedonia, Greece, 2010 -Today.

#### **5. REVIEWER IN REFEREED JOURNALS (Listed by alphabetical order)**

- ACI Structural Journal
- Advances in Structural Engineering
- ASCE Journal of Composites for Construction
- Bulletin of Earthquake Engineering
- Earthquake Engineering and Structural Dynamics
- Earthquakes and Structures
- Engineering Structures
- ISET Journal of Earthquake Technology
- Masonry Society Journal
- Mechanics of Advanced Materials and Structures
- Scientific Research and Essays

## II) LIST OF MOST SIGNIFICANT PUBLICATIONS

### Publications to refereed journals

- Salonikios, T.N., Kappos, A.J., Tegos, I. A., and Penelis, G.G. "Cyclic Load Behavior of Low-slenderness R/C Walls: Design Basis and Test Results", ACI Structural Journal, Vol.96, No. 4, July-August 1999, pp 649-660.
- Salonikios, T.N., Kappos, A.J., Tegos, I. A., and Penelis, G.G. "Cyclic Load Behavior of Low-slenderness R/C Walls: Failure Modes, Strength and Deformation Analysis, and Design Implications", ACI Structural Journal, Vol.97, No. 1, January-February 2000, pp 132-141.
- Salonikios, T.N., "Shear Strength and Deformation Patterns of R/C Walls With Aspect Ratio 1.0 and 1.5 Designed to Eurocode 8 (EC8)", Engineering Structures Journal, Vol.24, No. 1, January 2002, pp 39-49.
- K. Antoniadis, T. Salonikios, A. Kappos "Cyclic tests on seismically damaged R/C walls strengthened using FRP reinforcement", ACI Structural Journal, Vol.100, No. 4, July - August 2003, pp 510 - 518.
- T. Salonikios, C. Karakostas, V. Lekidis, A. Anthoine "Comparative Inelastic Pushover Analysis of Masonry Frames" Engineering Structures Journal, Vol. 25, No 12, October 2003, pp. 1515-1523.
- K. Antoniadis, T. Salonikios, A. Kappos "Tests on Seismically Damaged R/C Walls Repaired and Strengthened Using FiberReinforced Polymers" Journal of Composites for Construction, ASCE, Vol 9, No 3, May - June 2005, pp 236 - 246.
- Karakostas Ch, Lekidis V, Makarios T, Salonikios Th, Sous I, Demosthenous M. "Seismic Response of Structures and Infrastructure Facilities During the Lefkada, Greece Earthquake of 14/8/2003", Engineering Structures Journal, Vol. 27, No 2, January 2005, pp.213-227.
- Kappos, V. Lekidis, G. Panagopoulos, I. Sous, N. Theodulidis, Ch. Karakostas, T. Anastasiadis, T. Salonikios, B. Margaritis, "Analytical Estimation of Economic Loss for Buildings in the Area Struck by the 1999 Athens Earthquake and Comparison with Statistical Repair Costs" Earthquake Spectra, Vol 23, No. 2, May 2007, pp 333-355.
- T. Salonikios "Analytical Prediction of the Inelastic Response of R/C Walls with Low Aspect Ratio" Journal of Structural Engineering, ASCE, Vol. 133, No 6, June 2007, pp. 844-854.
- K. Antoniadis, T. Salonikios, A. Kappos, "Evaluation of Hysteretic Response and Strength of Repaired R/C Walls Strengthened with FRPs", Engineering Structures Journal, Vol. 29, Issue 9, September 2007, pp. 2158-2171.
- G.J. Mitolidis, T.N. Salonikios, A.J. Kappos, "Mechanical and Bond Characteristics of SRP and CFRP Reinforcement - A Comparative Research", The Open Construction and Building Technology Journal, 2008, 2, pp. 207-216.
- Evaggelos Ntotsios, Christos Karakostas, Vasilios Lekidis, Panagiotis Panetsos, Ioannis Nikolaou, Costas Papadimitriou & Thomas Salonikios, "Structural identification of Egnatia Odos bridges based on ambient and earthquake induced vibrations", Bulletin of Earthquake Engineering, Vol. 7, Issue 2, Pages 485 - 501, 2009.
- G.J. Mitolidis, T.N. Salonikios, A.J. Kappos, "Test on R/C Beams Strengthened at the Span with Externally-bonded Polymers, Reinforced with Carbon or Steel Fibers", ASCE Journal of Composites for Construction, Vol. 16, Issue 5, pp. 551-562, Sept. 2012.
- G.J. Mitolidis, T.N. Salonikios, A.J. Kappos, "Test Results and Strength Estimation of R/C Beams Strengthened Against Flexural or Shear Failure by the Use of SRP and CFRP" Composites – Part B: Engineering, V. 43, no. 3, 2012, 1117–1129.
- T. N. Salonikios, A. G. Sextos, A. J. Kappos, "Tests on composite slabs for the evaluation of Eurocode 4 provisions for m-k factors, and associated design issues", Journal Steel and Composite Structures, 13(6), December 2012, DOI . 10.12989/scs.2012.13.6.571
- P. K. Papadopoulos, T. N. Salonikios, S. A. Dimitrakis and A. P. Papadopoulos, "Experimental investigation of a new steel friction device with link element for seismic strengthening of structures" Structural Engineering and Mechanics Journal, Vol. 46, No. 4, May 2013.

- N. Theodoulidis, C. Karakostas, V. Lekidis, K. Makra, B. Margaris, K. Morfidis, C. Papaioannou, E. Rovithis, T. Salonikios, A. Savvaidis, “The Cephalonia , Greece, January 26 (M6.1) and February 3, 2014 (M6.0) Earthquakes: Near Field Ground Motion and Effects on Soil & Structures”, *Bulletin of Earthquake Engineering*, Vol 14(1), pp. 1-38, Jan 2016.
- Thomas Salonikios, Nikolaos Theodoulidis, Konstantinos Morfidis, Georgia Zacharopoulou, Konstantinos Raptis, “Efficiency investigation of structural interventions based on in situ ambient vibration measurements on Acheiropoietos Early Byzantine basilica, Thessaloniki, Greece”, *Journal of Civil Structural Health Monitoring*, Springer, Vol. 8, No 1, January 2018.
- Thomas N. Salonikios, Konstantinos E. Morfidis “Seismic evaluation of masonry monuments through the utilization of in-situ measurements – case study on a Byzantine basilica”. *Mediterranean Archaeology and and Archaeometry International Journal*, Vol. 18, No 1, pp. 93-112, 2018, DOI: 10.5281/zenodo.1069529.

### **Publications to the proceedings of international refereed conferences (also presented)**

- Salonikios T., Penelis G., Tegos J., Kappos A. “Squat R/C walls under inelastic shear reversals” 11 World Conference on Earthquake Engineering, Acapulco Mexico June 1996.
- A.J. Kappos, T.N. Salonikios : “Premature sliding shear failure in squat shear walls: Fact or myth?” 2nd UK - Japan workshop on implications of recent earthquakes on seismic risk, Tokyo, April 1998.
- Salonikios T., “Analytical estimation of total displacement’s components of R/C shear walls with aspect ratio 1.0-1.5 subjected to seismic loads” 6th National Congress on Mechanics, Thessaloniki, July, 2001, Vol. 1, pp 267-274.
- Salonikios T. N. “Side column axial deformations of cyclic loaded R/C walls with aspect ratio 1.0 & 1.5” *12<sup>th</sup> European conference of Earthquake Engineering, CD-ROM proceedings*, paper number 34, London September 2002.
- K. Antoniadis, T. Salonikios, A. Kappos. “Inelastic behavior of FRP-strengthened R/C walls with aspect ratio 1.5, subjected to cyclic loading”. *Fib 2003 Symposium: “Concrete structures in Seismic Regions”*. Athens May 2003. Ref. Number 10.
- Salonikios T. N. “Deformation characteristics of R/C walls with low aspect ratio subjected to cyclic loads”. *Fib 2003 Symposium: “Concrete structures in Seismic Regions”*. Athens May 2003. Ref. Number 200.
- Salonikios, T., “Web Shear Deformations of R/C Walls with Flexural Failure Subjected to Cyclic Loading”, *International Conference on Computational & Experimental Engineering & Science, (ICCES '04)*, Madeira, Portugal, July 26 – 29, 2004, pp. 705 – 711.
- Salonikios, T., “Analytical Approach to the Measured Deformation Characteristics of R/C Shear Walls”, *Proceedings of the 13<sup>th</sup> World Conference on Earthquake Engineering (13WCEE)*, Vancouver, Canada, August 1-6, 2004, paper # 3328.
- Salonikios, T., “Modeling of R/C Walls’ Displacements Subjected to Cyclic Loading at Top”, *FIB Symposium “Keep Concrete Attractive”*, Budapest, May 23 – 25, 2005, pp. 643 – 650.
- Salonikios T, Karakostas Ch., Lekidis V., Sous I., Makarios T., “Examination of the dynamic response of structures by the use of local accelerometer networks”, 5th Hellenic Conference of the Hellenic Society of Nondestructive Testing, Athens, 18-19 November, 2005 (CD-ROM proceedings).
- Antoniadis, K., Salonikios, T., Kappos, A., “Estimating Strength of FRP-Strengthened R/C Walls”, *FIB Symposium “Keep Concrete Attractive”*, Budapest, May 23 – 25, 2005, pp. 436 – 443.
- Salonikios, T., “Short Wall-Like Piers of R/C Bridges Under Seismic Loading: EC8 Provisions and Experimental Results”, *5<sup>th</sup> International Conference on Earthquake Resistant Structures (ERES 2005)*, WIT, Skiathos, May 30 – June 1, 2005, pp. 497 – 505.
- V. Lekidis, N. Theodoulidis, Ch., Karakostas, T., Anastasiadis, Z. Roumelioti, I. Sous, T. Salonikios and B. Margaritis, “Evaluation of Near Field Strong Ground Motion of the Athens 7/9/1999 Earthquake for Different Soil Conditions aiming towards Earthquake Loss Assessment”, *International Conference: Earthquake Engineering in the 21st Century*, Skopje-Ohrid, August 27 – September 1, 2005, paper # E48.
- T. Salonikios, T. Makarios, I. Sous, V. Lekidis, Ch. Karakostas, “Design of instrumentation and vibration

testing programs of structures through analytical investigations”, *12<sup>th</sup> International Conference on Computational Methods and Experimental Measurements (CMEM2005)*, WIT, Malta, June 20-22, 2005, pp. 579-588.

- Makarios T., Salonikios T., Karakostas Ch, Lekidis V., Sous I. and Anastasiadis A., “Evaluation of the dynamic properties of a R/C building through the record of a seismic excitation”, 15th Hellenic Conference on Concrete, Alexandroupoli, 25 – 27 October, 2006, Vol. B, pp. 396 – 409.
- Antoniadis, K., Kappos, A., Salonikios, T., “Inelastic Response Characteristics of Repaired R/C Walls Strengthened with FRPs”, *FIB, 2<sup>nd</sup> International Congress*, Naples, Italy, June 5 – 8, 2006, paper # 10-49.
- Ch., Karakostas, V. Lekidis, C. Papadimitriou, S. Karamanos, T. Salonikios, T. Makarios, I. Sous, K. Christodoulou and P. Panetsos, “Structural Identification of Bridges Based on Ambient Vibration Measurements”, *European Conference on Earthquake Engineering and Seismology*, Geneva, Switzerland, September 3-8, 2006, paper # 1263.
- Karakostas Ch, Papadimitriou K, Lekidis V, Panetsos P, Ntotsios E, Salonikios T., Makarios T., Nikolaou I., Sous I., “Evaluation of the dynamic properties of Egnatia motorway bridges based on their response to seismic excitations”, 3rd Hellenic Conference of Earthquake Engineering & Engineering Seismology, Thessaloniki, November 2008, Athens, paper # 2016.
- Ntotsios E., Perros K., Papadimitriou K., Panetsos P., Lekidis, V., Karakostas Ch., Salonikios T., Makarios T., Sous I., “Upgrade of Egnatia motorway bridge models based on their response to dynamic excitations”, 3rd Hellenic Conference of Earthquake Engineering & Engineering Seismology, Thessaloniki, November 2008, Athens, paper # 2018.
- G. Mitolidis, T. Salonikios, A. Kappos, “Bond Tests of SRP and CFRP – Strengthened Concrete Prisms”, 4th Int. Conference on FRP Composites in Civil Engineering (CICE2008), 22-24 July, Zurich, Switzerland, Paper # E111, (7.C.5).
- Salonikios T, Makarios T. “New method for the design of low aspect ratio walls against seismic actions”, *Proceedings of the 14<sup>th</sup> World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, October 12-17, 2008, Paper# 05-03-0174.
- Makarios T, Salonikios T. “Use of new equivalent nonlinear SDF system of planar multi-storey r/c frames in static pushover procedure”, *Proceedings of the 14<sup>th</sup> World Conference on Earthquake Engineering (14WCEE)*, Beijing, China, October 12-17, 2008, Paper# 14-0229.
- A.A. Karalis, K.C. Stylianidis, T.N. Salonikios, “Experimental investigation of old R/C frames strengthened against earthquakes by high dissipation steel link elements”, *Proceedings of the final conference of COST Action C26, Urban Habitat Constructions Under Catastrophic Events*, September 2010, Napoli, Italy, pp 877-882.
- T. Salonikios, K. Antoniadis, A. Kappos, “Experimental Evaluation of Eurocode 4 Provisions on Standard Tests of Composite Slabs for the Determination of m-k Values”, 6<sup>th</sup> European Conference on Steel and Composite Structures, August 2011, Budapest, Hungary, paper #A-0499.
- A. Karalis, K. A. Georgiadi-Stefanidi, T. N. Salonikios, K.C. Stylianidis, E.S. Mistakidis, “Experimental and Numerical Study of the Behaviour of high Dissipation Metallic Devices for the Strengthening of Existing Structures”, *Proceedings of the III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2011*, Corfu, Greece, May 2011, paper #600.

- S.D. Tegou, I.A. Tegos, T.N. Salonikios, “Segmentation of Piers and Abutments into Vertical Layers with Expanded Polystyrene Insertions” International Conference Innovations on Bridge and Soil-Bridge Interaction, IBSBI 2011, Athens, Greece, Oktober 2011, paper # AB 054.
- I.A. Tegos, S.D. Tegou, A. Spanou, T.N. Salonikios, “Use of bridge approach embankments as seismic restrainers” International Conference Innovations on Bridge and Soil-Bridge Interaction, IBSBI 2011, Athens, Greece, Oktober 2011, paper # AB 068.
- T. N. Salonikios, K. E. Morfidis, V. A. Lekidis, “Seismic load assessment for masonry monumental buildings”, Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2013, Paper # 1467, Kos Island, Greece, June 2013.
- Lekidis V, Anagnostopoulos S, Baros D, Karakostas C, Salonikios T, Makarios T “Nonlinear seismic assessment of eight-storey reinforced concrete building according to Eurocode EN 1998-3” Proceedings of The 2013 World Congress on Advances in Structural Engineering and Mechanics (ASEM13) - International Conference on Earthquakes and Structures (ICEAS13), Jeju island, Korea, 8-12 September 2013
- Morfidis Konstantinos, Kostinakis Konstantinos, Salonikios Thomas “Influence of the soil flexibility on seismic damage level of r/c buildings subjected to multicomponent earthquake excitation with different orientation schemes”, Proceedings of the 9th International Conference on Structural Dynamics, EURODDYN 2014, Porto Portugal, July 2014, pp. 315 – 322.
- Lekidis Vasilis, Karakostas Christos, Salonikios Thomas, Morfidis Konstantinos “Structural identification of a Byzantine cathedral in Veroia town, Greece”, 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey August 2014, Paper #2071.
- Theodoulidis Nikos, Karakostas Christos, Lekidis Vassilios, Makra Konstantia, Margaris Basil, Morfidis Konstantinos, Papaioannou Christos, Rovithis Manos Salonikios Thomas, Savvaidis Alexandros “The Cephalonia (Greece) earthquakes of January 26 & February 3, 2014: Effects on soil and built environment”, 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey August 2014, Paper #3008.
- Morfidis K., Lekidis V., Karakostas C., Salonikios T., Iakovidis I. “Response of a R/C Building in Cephalonia (GR) to Earthquake Excitations During the 26/01 – 03/02/2014 Seismic Sequence”. 16th World Conference on Earthquake Engineering, Santiago, Chile, 2017, Paper ID: 1321.

#### **Publications to international sites after review**

B. Margaris, C. Papaioannou, N. Theodulidis, A. Savaidis, A. Anastasiadis, N. Klimis, K.Makra, M. Demosthenous, C. Karakostas, V. Lekidis T. Makarios, T. Salonikios, S. Sous, P. Carydis, E. Lekkas, S. Lozios, E. Skourtsos & G. Danamos “Preliminary Observations on the August 14, 2003, Lefkada Island (Western Greece) Earthquake” *EERI Special Earthquake Report*, November 2003, 12 pp.

Karakostas Ch., Makarios T., Lekidis V., Salonikios T., Sous I., Makra K, Anastasiadis A., Klimis N., Dimitriou P., Margaris B., Papaioannou Ch., Theodulidis N. and Savvaidis A. “The Kythira (Greece) Earthquake of January 8, 2006: Preliminary Report on Strong Motion Data, Geotechnical and Structural Damage” *EERI Learning from Earthquakes* report, at : [http://www.eeri.org/lfe/pdf/greece\\_kythira\\_ITSAK.pdf](http://www.eeri.org/lfe/pdf/greece_kythira_ITSAK.pdf)

#### **Editions after review with ISBN (names in alphabetical order according Greek alphabet)**

A. Anastasiades, P. Dimitriou, M. Demosthenous, N. Theodoulides, Ch. Karakostas, N. Klimis, V. Lekidis, T. Makarios, K. Makra, V. Margaris, Ch. Papaioannou, A. Savaides, T. Salonikios, I. Sous, “Leukada earthquake (M = 6.2), 14 August 2003. Strong motion and consequences to the build and natural environment”, Special

bookbinded edition of Technical Chamber of Greece, 2004, 78pages, ISBN: 960-8369-07-X

A. Anastasiades, P. Dimitriou, M. Demosthenous, N. Theodoulides, Ch. Karakostas, N. Klimis, V. Lekidis, T. Makarios, K. Makra, V. Margaris, Ch. Papaioannou, A. Savaides, T. Salonikios, I. Sous, “Kythira earthquake (M=6.9), 8 January 2006. Strong motion and consequences to the build and natural environment”, in Kythira and Antikythira” Special bookbinded edition of Technical Chamber of Greece, 2006, 59pages, ISBN: 960-8369-17-7

### **Invited Talks**

Annual Lecture of the National Scientific Society of Concrete Research (EΠΕΣ), subject: “Experimental study of the response of reinforced concrete walls with aspect ratio 1.5 reinforced with diagonal reinforcement”, Thessaloniki, December 1996.

Organizer of over 25 invited lectures at ITΣAK for the period 2000 -2007. Subjects on Engineering Seismology and Earthquake Engineering

Organizer and member of speakers’ team for ITΣAK contribution to the national program for the education and training of volunteer rescuers that operate during and after natural disasters from 2000 – Today (over 30 seminars).

Annual Lecture of the National Scientific Society of Concrete Research for 2002 (EΠΕΣ), subject: “Seismic response of reinforced concrete walls and repair with fiber reinforced polymers”, Thessaloniki, December 2002.

Lecture to the Fire Department of Thessaloniki, subject: “Support of seismically damages buildings, debris removal and basic principles of Earthquake Engineering, March 2005.

### **Participation, after invitation as expert, to the work of Technical Chamber of Greece (TCG)**

- Participation after invitation to five working groups organized by TCG on Earthquake Engineering matters and on fibber optic networks. Member of Permanent Committees for similar subjects
- Expert on the active list for TCG on technical matters (1998 – today)
- Member of the list of trouble-shooter of TCG (2006 – today)
- Representative of TCG to steering committees
- Examiner on the active list for the work permit for new Engineers
- Expert for court of first instance of Thessaloniki (2006 – 2008)

#### **IV) LIST OF RESEARCH PROJECTS IN WHICH PARTICIPATED IN THE LAST 20 YEARS**

“Development of a system for the monitoring and diagnosis of the static adequacy of important bridges of Egnatia Motorway”. Funded by Egnatia Odos S. A. 2 year duration 2001 – 2002. -Scientist in charge: Vasilios Lekidis -Total budget: € 13200. Thomas Salonikios: Participation to the instrumentation of important bridges of Egnatia Motorway, structural health monitoring of these bridges and postprocessing of the recorded response and data due to ambient vibrations for the identification of the dynamic properties of the bridge.

“Study of the influence of local site effects, of geomorphology and of soil structure interaction to the records of the National Accelerograph Network” Funded by OΑΣΠ. 2 year duration 2001 – 2002. -Scientist in charge: Anastasios Anastasiadis -Total budget: € 73500. Thomas Salonikios was the scientist in charge for the instrumentation of two buildings (where accelerographs were installed) by local network accelerometers for the record of their response to ambient and low seismic motions for the purposes of the program.

“Earthquake protection of bridges (acronym: ASProGe)” funded by the General Secretariat for Research and Technology of Greece, duration: 3 years, started: 1/10/03. -Coordinator: A. Kappos -Total of 14 participants (8 from the Industry, 6 from research institutions) -Total Budget: €2000000 (ITΣAK Budget: €112000) Thomas Salonikios: Participation to the instrumentation of important bridges of Egnatia Motorway, structural health monitoring of these bridges and postprocessing of the recorded response and data due to ambient vibrations for the identification of the dynamic properties of the bridge.

“Confrontation of the catastrophic consequences of earthquakes to the build environment”. Founded by the General Secretariat for Research and Technology of Greece, duration: 3 years, started: 1/10/04. -Scientist in charge: Milton Demosthenus (ITΣAK) -Total Budget: €11000 Thomas Salonikios: Participation to the education of Civil Engineers from Cyprus on subjects related with the pre-earthquake and post-earthquake rapid visual inspection of buildings and the necessary preparedness of public sector for the confrontation of the consequences of catastrophic earthquakes.

“Experimental investigation of the behaviour of beams in existing reinforced concrete structures strengthened with composite materials and steel fabric”, funded by the General Secretariat for Research and Technology of Greece, duration: 3 years, started: August 2005. -Scientist in charge: Thomas Salonikios (ITΣAK) -Total Budget: €65500 Thomas Salonikios was the coordinator of the present program and also participated to the design, preparation and execution of the experimental part of the program and to the appropriate postprocessing of the recorded data.

“Stabilization of a rock natural monument in Paphos – Cyprus and protection against rock fall”. Founded by Paphos Municipality. Duration 2006 – 2008. -Scientist in charge: Milton Demosthenous -Budget for ITSAK: €83000 Thomas Salonikios: Participation to the in situ measurements and imprint of the rock and to the composition of photographs for the reproduction of views of the natural monument.

SYNARMA. Development of an Information System for Natural Risk Management in the Mediterranean”. Founded by 75% by European Union and by 25% by Greece. Duration 2006 – 2008. -Scientist in charge: Nikos Theodoulidis -Budget for ITSAK: €130000 Thomas Salonikios: Participation to Rapid Visual Inspection of the buildings that house Public Services which concern to the confrontation of the consequences of catastrophic earthquakes also participated to the indexing of recorded information for the classification of the seismic capacity of the inspected buildings.

“Upgrade of the laboratory equipment of ITΣAK”. Founded by the European Union and the Region of Central Macedonia, Greece. -Scientist in charge for the structural division of ITΣAK: Thomas Salonikios -Budget for the structural division of ITΣAK: €250000 Thomas Salonikios: Participation to the design of the equipment under provision. More specific, design and preparation of the construction drawings of an automotive laboratory for

the in situ inspection and instrumentation of important structures (before and/or after destructive earthquakes). Also composed the specifications for the rest laboratory equipment.

“Structural health monitoring of Troumpeta bridge of Egnatia Motorway by recording its response to ambient and post – earthquake excitation” 1 year, started June 2007. -Scientist in charge: Thomas Salonikios -Expenses covered by ITΣAK annual budget Thomas Salonikios was the scientist in charge for the design and for the in situ instrumentation of bridge by a local accelerometers network, monitoring of the bridge response to ambient and post-earthquake vibrations and identification of the dynamic properties of the bridge.

“Strengthening of existing Reinforced Concrete buildings, with pilotis, through the use of high dissipation devices”. Funded by OΑΣΠ. 1 year, started July 2010. -Scientist in charge: Kosmas Stylianidis -ITΣAK Budget €4000 Thomas Salonikios: Participation to the experimental part of the program. Operator and programmer of the experimental equipment that was used for the test of 17 specimens.

“Increase of the Seismic Capacity of Multi-Storey Frames through the Bracing of a Metal Friction Device with Variable Strength” Funded by the department of Civil Engineering, Aristotle University of Thessaloniki. 1 year, started 2010. -Scientist in charge: Panikos Papadopoulos -Expenses covered by the department of Civil Engineering of the Aristotle University of Thessaloniki. Thomas Salonikios: Participation to the experimental part of the program and to the part of the post-processing of the recorded data. Operator and programmer of the experimental equipment that was used for the over 30 tests.

“Subsidy of ITΣAK and Geodynamic Institute of National Observatory of Athens for the creation and initiation of operation of the National Accelerograph Network”. Funded by Earthquake Planning and Protection Organization (EPPO, OΑΣΠ). Started 2010 -2013, estimated duration 3 years. -Scientist in charge: Nikos Theodoulidis -ITΣAK Budget €600000 Thomas Salonikios: Participation together with other civil engineers of ITΣAK, to the documentation and choice of the possible building stations.

“Evaluation of the capacity of Kalamata administrative building to seismic loads”. Funded by Peloponnesus Prefecture. Two stage program (2009-2010) and “(2013-2015).

“Experimental investigation of a new steel friction device with link element for the seismic strengthening of frame structures”. Funded by Civil Engineering Department of A.U.Th., 2012.

“Instrumentation and evaluation of eigenproperties of old Metropolitan Temple in Veroia city, Hmathia, Greece”. Funded by 11th Ephorate of Antiquities. 2013.

“Instrumentation and evaluation of eigenproperties of Ottoman Minaret close to Metropolitan Temple in Veroia city, Hmathia, Greece”. Funded by 11th Ephorate of Antiquities. 2013.

“In – situ measurements on the load bearing masonry structure of Matsopoulos Watermill in Trikala, Greece for the estimation of the interaction between mechanical equipment and the structural system of the building”. Funded by Vermion ATEE. 2014 -2016.

“Instrumentation of the canopy at Stavros Niarchos Foundation Cultural Center for the estimation of dynamic eigenproperties and the response to ambient vibrations. Funded by Join Venture Impregilo S.p.A – TERNA A.E. 2016.