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CV-STUDIES-PROFESSIONAL ACTIVITIES

20.11.1972: Born in Kavala

1991- 1996: Studies at the Department of Civil Engineering of Aristotle University of Thessaloniki (AUTH). Thesis title: “Study of a multi-storey steel building in the framework of the regulations of Eurocode 3”

22.07.1996: **Diploma in Civil Engineering. Grade 8/10.**

September 1996: Researcher at the Institute of Steel Structures of the Department of Civil Engineering of AUTH under the direction of the late Professor P.D. Panagiotopoulos.

Doctoral dissertation entitled: “Study of the behaviour of adhesives in composite structures in the framework of methods of Nonsmooth Mechanics”.

30.10.2000: **Public presentation and approval of doctoral dissertation.** Grade “Excellent unanimously”.

21.11.2000: Doctor official proclamation of the Department of Civil Engineering of AUTH.

07.03.2001-07.09.2002: Military service at the Greek Air Force.

2003-2005: Research Associate at the Technological Educational Institute of Kavala (Branch of Drama), at the Department of Forestry and Natural Environment Management and at the Department of Landscape Architecture.

1998 - 2005: Professional Civil Engineer in his own private firm. Collaboration with construction companies for structural consulting and design implementation for a variety of projects.

2006 – to date: Assistant Professor at the Department of Forestry and Natural Environment Management at the Technological Educational Institute of Kavala (Branch of Drama).

2008-2009: Head of Sector of Natural Environment Works at the Department of Forestry and Natural Environment Management at the Technological Educational Institute of Kavala (Branch of Drama).

Fellowships

- The Foundation of Greek State Scholarships (1991-1992, 1992-1993, 1993-1994 & 1994-1995).
- Technical Chamber of Greece (1993-1994, 1995-1996).

Teaching Activity (2003-2010)

- Responsible for the designing and lecturing of the graduate courses “Statics”, “Reinforced Concrete”, “Small and Timber Constructions”, “Forest Road Engineering I”, “Forest Road Engineering II”, “Structure Elements-Reinforced Concrete”, “Natural Environment Constructions” at the Department of Forestry and Natural Environment Management of the Technological Educational Institute of Kavala (Branch of Drama).
- Responsible for the designing and lecturing of the graduate courses “Small and Timber Constructions”, “Material Technology” at the Department of Landscape Architecture of the Technological Educational Institute of Kavala (Branch of Drama).
- Supervision of about 20 graduate theses at the Department of Forestry and Natural Environment Management of the Technological Educational Institute of Kavala (Branch of Drama) till now.

Class notes

1. Kaziolas D. (2004): “Small Constructions”, Department of Landscape Architecture of the Technological Educational Institute of Kavala (Branch of Drama).
2. Kaziolas D. (2004): “Natural Environment Constructions (Small Constructions)”, Department of Forestry and Natural Environment Management of the Technological Educational Institute of Kavala (Branch of Drama).

Research Interests

Steel Structures, Timber Structures, Aluminium Structures, Composite Structures, Statics and Dynamics of Structures, Nonsmooth and Nonconvex mechanics, Optimization algorithms for the study of static problems and generally problems of the science of civil engineer, Study of the behaviour of adhesives in composite

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structures, Study of the interfacial delamination in composite structures, Unilateral Contact Problems, Sustainable design of structures.

Member of Scientific Societies

- Technical Chamber of Greece,
- Greek Society of Civil Engineers,
- Greek Association on Computational Mechanics

Reviewer of Scientific Publications

- Reviewer of papers that have been submitted for publication in the journal: “Journal of Engineering Science and Technology Review”
- Reviewer of papers that have been submitted for publication in the proceedings of: “The Nineteenth IASTED International Conference on Applied Simulation and Modelling (ASM 2011)”, June 22 – 24, 2011, Crete, Greece.

Research Projects

Participation as researcher to the following research projects:

1. “Limit and Shakedown Analysis Using Finite Elements for Plastic Reliability of Perfect or Cracked Structures under Variable Thermomechanical Loads”, Brite - EuRAM Programme under the funding of European Commission. Scientific Coordinator: Late Professor P.D. Panagiotopoulos
2. “Undergraduate courses” (Educational Institute of Kavala). Scientific Coordinator: Professor N. Avtzis, Department of Forestry and Natural Environment Management of the Technological Educational Institute of Kavala (Branch of Drama).
3. “Pilot study and construction of range fire prevention and management systems” under the funding of Hellenic Republic – Ministry of Foreign Affairs – Hellenic Aid. Scientific Coordinator: Professor D. Emmanouloudis, Department of Forestry and Natural Environment Management of the Technological Educational Institute of Kavala (Branch of Drama).

Scientific Publications

I. Books

[1] D. N. Kaziolas (2000): "Study of the behaviour of adhesives in composite structures in the framework of methods of Nonsmooth Mechanics", *Doctoral Dissertation*, Aristotle University of Thessaloniki.

II. Publications in Scientific Journals (Peer review system)

[1] **D.N. Kaziolas**, M.J. Kontoleon, E.K. Koltsakis and P.D. Panagiotopoulos (2000): 3D-Adhesive contact laws with debonding: A nonconvex energy bundle method. In: *Comput. Meth. Appl. Mech. Engng.*, 186(1), pp 23-48.

[2] **D.N. Kaziolas** and C.C. Baniotopoulos (2000): Structural failure study of laminated composites: the bundle optimization approach. In: *Composite Structures*, Vol. 49, pp 173-182.

[3] **D.N. Kaziolas** and C.C. Baniotopoulos (2001): On the debonding in multilayered composite structures. A new numerical approach. In: *Computational Mechanics Journal*, Vol. 27, Num. 2, pp. 160-169.

[4] **D.N. Kaziolas** and C.C. Baniotopoulos (2001): Above-ground pipelines: Study of the influence of the supporting system and the thickness on the stress state of above-ground pipelines. *Journal Ktirio*, A/2001, pp. 69-76.

[5] M.J. Kontoleon, **D.N. Kaziolas**, M.D. Zygomalas and C.C. Baniotopoulos (2003): Analysis of steel bolted connections by means of a nonsmooth optimization procedure. In: *Computers and Structures Journal*, Vol 81, pp. 2455-2465.

[6] **D.N. Kaziolas**, E. Efthymiou, M. Zygomalas and C.C. Baniotopoulos (2009): Investigation of the pull-out phenomenon in steel bolted connections. Numerical modelling and laboratory testing. In: *Transactions of FAMENA Journal*, Issue 1, Vol 33, pp. 11-22.

[7] K. Abdalla, **D.N. Kaziolas**, C.C. Baniotopoulos and M.A. Badarneh (2010): Unilateral contact effects in the structural response of beam to column connections. In: *Pollack Periodica*, Vol.5, No 3, pp. 35-61.

[8] **D.N. Kaziolas**, K. Abdalla and C.C. Baniotopoulos (2011): Numerical and experimental investigation of the behaviour of extended end-plate connections in steel structures. In: *Pollack Periodica*, (to be revised).

- [9] K. Abdalla, **D.N. Kaziolas**, C.C. Baniotopoulos and M.A. Badarneh (2011): Experimental and numerical investigation of the structural response of top and seated angle with double web angle bolted connections. In: *Pollack Periodica*, Vol.6, No 1, (accepted for publication-in print).
- [10] K. Abdalla, **D.N. Kaziolas**, C.C. Baniotopoulos (2011): Tightening and Untightening Torque of M164M Bolts. Experimental and Analytical study. In: *Journal of Structural Engineering (MADRAS)* (accepted for publication-in print)
- [11] K. Abdalla, **D.N. Kaziolas**, C.C. Baniotopoulos (2011): Tightening and Untightening Torque of M253M Bolts. Experimental and Analytical Investigation. In: *Pollack Periodica* (accepted for publication-in print)

III. Publications in Proceedings of International and National Conferences (Peer review system)

- [1] G.H. Tsohos, **D. Kaziolas**, C. Baniotopoulos and P.D. Panagiotopoulos (1998): Analysis of the response of concrete pavement slabs jointed by dowel bars. In: *Proceedings of the 8th International Symposium on Concrete Roads*, Theme III (Pavement Performance and Evaluation), pp 31-36, Lisbon-Portugal.
- [2] **D.N. Kaziolas**, M.J. Kontoleon, and P.D. Panagiotopoulos (1998): 3D-Delamination of sandwich beams: A nonconvex nonsmooth energy minimization approach. In: *Proceedings of the 5th National Congress on Mechanics*, Vol. 1 , pp 180-187, Ioannina-Greece.
- [3] **D.N. Kaziolas** and C.C. Baniotopoulos (1999): On the debonding process in multilayered composite structures. A new numerical approach. In: *Proceedings of the 3rd National Congress on Computational Mechanics*, Vol. 1, pp 309-316, Volos-Greece.
- [4] M.J. Kontoleon, **D.N. Kaziolas** and C.C. Baniotopoulos (2000): A hemivariational inequality and a nonconvex energy bundle optimization approach to the resistance of steel bolted connections. In: *Proceedings of the 4th International Colloquium of Shell and Spatial Structures*, Chania-Crete-Greece.
- [5] C.C. Baniotopoulos, **D.N. Kaziolas** and M. Zygomalas (2002): A hemivariational inequality and substationarity approach to the analysis of the response of laminated composites. In: *Proceedings of the International Conference on Nonsmooth/Nonconvex Mechanics with Applications in Engineering*, pp. 385-392, Thessaloniki-Greece.

- [6] **D.N. Kaziolas** and C.C. Baniotopoulos (2008): Design of structural aluminium members in compression in the framework of Eurocode 9. In: *Proceedings of the 6th National Conference on Metal Structures*, pp. 427-434, Ioannina-Greece.
- [7] **D.N. Kaziolas**, E. Efthymiou, M. Zygomalas and C.C. Baniotopoulos (2008): Simulation of the pull-out phenomenon of a bolt from a steel plate connection. In: *Proceedings of the AMSE International Conference on Modelling and Simulation (MS'08 JORDAN)*, pp. 120-124, Petra – Jordan.
- [8] **D.N. Kaziolas**, E. Efthymiou and C.C. Baniotopoulos (2009): On the separation zones in aluminium base-plate connections. Numerical simulation and laboratory testing. In: *Proceedings of the 5th Contact Mechanics International Symposium (CMIS 2009)*.
- [9] E. Efthymiou, **D.N. Kaziolas** and C.C. Baniotopoulos (2009): On the response of steel telecommunication masts under environmental actions and seismic loading. In: *Proceedings of the Nordic Steel Construction Conference 2009 (NSCC 2009)*, pp 375-381, Malmoe – Sweden (02.09.2009-04.09.2009)
- [10] **D.N. Kaziolas**, K. Abdalla and C.C. Baniotopoulos (2010): Extended end-plate connections in steel structures: Numerical and experimental testing. In: *Proceedings of the International Conference on Modelling and Simulation 2010*, 22 – 25 June 2010, Prague, Czech Republic.

IV. Other publications (Peer review system)

- [1] **D.N. Kaziolas**, M.J. Kontoleon, and C.C. Baniotopoulos (2000): A hemivariational inequality and a nonconvex energy bundle approach to the problem of debonding in adhesively bonded composite structures. In: *Nonsmooth/Nonconvex Mechanics. Modeling, Analysis and Numerical Methods. A Volume Dedicated to the Memory of Professor P.D. Panagiotopoulos*, Kluwer, Chapter 8, pp 173-187.
- [2] **D.N. Kaziolas** and C.C. Baniotopoulos (2000): Recent advances in the analysis of laminated composite structures. In: *Recent Advances in Applied Mechanics. Honorary Volume for Professor A.N. Kounadis*, Symmetria Press, eds. Katsikadelis J.T., Beskos D.E. and Gdoutos E.E., pp. 31-38.
- [3] **D.N. Kaziolas**, E. Efthymiou, M. Zygomalas and C.C. Baniotopoulos (2011): On the separation zones in aluminium base-plate connections. Numerical simulation and laboratory testing. In: “*Lecture notes in Applied Mechanics and Engineering*”, Springer, eds: F. Pfeiffer and P. Wringgers (in print).

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Other Information

Two-digit number of citations.

Evaluator/Reviewer of EU Framework Programme 7 (FP7) in the evaluation session of “Research Fund for Coal and Steel”.

Languages

Greek, English.