

## ΤΑΚΤΙΚΑ ΜΕΛΗ

1. **Βες Σωτήριος**, Καθηγητής του Τμήματος Φυσικής της Σ.Θ.Ε. του Α.Π.Θ.  
<http://www.physics.auth.gr/system/cvs/56/original/Ves-cv-gr.pdf?1276753946>
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<http://www.physics.auth.gr/system/cvs/68/original/Paloura-cv-gr.pdf?1275466930>
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[http://www.physics.auth.gr/system/cvs/70/original/kpar\\_cv\\_gr.pdf?1276855845](http://www.physics.auth.gr/system/cvs/70/original/kpar_cv_gr.pdf?1276855845)
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6. **Δημήτριος Τσουκαλάς**, Καθηγητής της Σχολής Ε.Μ.Φ.Ε. του Ε.Μ.Π.  
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## ΑΝΑΠΛΗΡΩΜΑΤΙΚΑ ΜΕΛΗ

1. **Κουρούκλης Γεράσιμος**, Καθηγητής του Τμήματος Χημικών Μηχανικών της Πολυτεχνικής Σχολής του Α.Π.Θ.  
[http://users.auth.gr/~gak/cv\\_gr.html](http://users.auth.gr/~gak/cv_gr.html)
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[http://www.ltfn.gr/images/stories/food/logo\\_cv.html](http://www.ltfn.gr/images/stories/food/logo_cv.html)
4. **Ηλίας Ζουμπούλης**, Αναπληρωτής Καθηγητής της Σχολής Ε.Μ.Φ.Ε. του Ε.Μ.Π. (βλέπε σελ. 2-7)
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<http://www.matersci.upatras.gr/FacultyDirectory?q=node/151>
6. **Πελεκάνος Νικόλαος**, Καθηγητής του Τμήματος Επιστήμης και Τεχνολογίας Υλικών του ΠΚ  
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7. **Pavlos Lagoudakis**, Professor, University of Southampton, UK  
<http://www.hybrid.soton.ac.uk/members/lagoudakis>

## CURRICULUM VITAE

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Date and place of birth : Feb. 26, 1951.

Marital status : Married, three children.

Foreign Languages : English, French, German

Nationality: Greek

### *Education*

" Ptychion " in Physics,	1974	University of Athens
M.A., M. Phil. in Physics,	1977	Columbia University, N.Y.C., N.Y., U.S.A.
Ph. D. in Physics,	1979	Columbia University, N.Y.C., N.Y., U.S.A.

### *Positions Held*

1976 - 1980:	Graduate Research Assistant, Physics Department, Columbia University
1981 - 1992:	Lecturer, Physics Dept., School of Applied Sciences, National Technical University of Athens (NTUA), Greece
1992 - 1999:	Assistant Professor, Physics Dept., School of Applied Sciences, National Technical University of Athens, (NTUA), Greece
1999-	Associate Professor, Physics Dept, School of Applied Sciences, National Technical University of Athens, (NTUA), Greece

### ***Periods spent abroad***

Jul. - Aug.1981:	Visiting Scientist, University of Ulm, Germany
Feb. - Apr. 1982 :	Visiting Scientist, Phys. Institut of the RWTH Aachen, Germany
Apr.- Jul.1988, Jun.- Jul.1989 :	Visiting Scientist, Institut des Milieux Condensés, Université P. et M. Curie, Paris, France.
Dec. 1989 - Mar. 1991, Mar. 1997 – May 1997:	Visiting Scholar in the Materials Science Division of Argonne National Laboratory, Argonne, Ill.,U.S.A.
Oct.1995, Jun. - Aug.1996:	Visiting Scientist in the A.F.Ioffe Physicotechnical Institute of the Russian Academy of Sciences, St. Petersburg, Russia
Sept. 12, 2012- Apr. 24, 2013 and July 25, 2013- Aug. 24, 2014:	Visiting Research Scholar in the Department Of Geosciences, Princeton University, Princeton, NJ, U.S.A.

### ***Specialization***

- (i) main field : Inelastic Scattering of Light. Brillouin and Raman Spectroscopy, Optical and Elastic Properties of Materials.
- (ii) other fields : Absorption Spectroscopy of Molecular Systems, Photorefractive Materials. Infrared Spectroscopy.
- (iii) current research interests : Optical and Elastic Properties of Materials at very High Temperatures and Pressures.

### ***Membership in Professional Societies***

Member of : Hellenic Physical Society, Hellenic Society of Lasers and Electrooptics, Hellenic Society of the Science and Technology of the Condensed Matter.

Member of the American Physical Society

Member of the American Geophysical Union.

### *Administrative Responsibilities*

1. Member of the Board of the Hellenic Society of the Science and Technology of Condensed Matter (HSSTCM).
2. Head of the Physics Department, School of Applied Sciences, National Technical University of Athens (NTUA), September 1, 2010 - August 31, 2012.

### ***PUBLICATIONS***

#### ***A. Textbooks***

1. Editorship and translation of the textbook: “Quantum Generations – History of Physics in the 20<sup>th</sup> Century” by Helge Kragh [ Princeton University Press, 1999 ] in Greek ( 2 coauthors ). Katoptron Press, Athens, 2004.
2. Editorship and translation of the textbook: “Optics and Lasers” by Matt Young [ 5<sup>th</sup> edition, Springer Verlag, 2000 ] in Greek ( 8 coauthors ). NTUA Press, Athens, 2008.
3. Editorship and translation of the textbook: “University Physics” by H.D.Young and R.A.Freedman [ 11<sup>th</sup> edition, Pearson/Addison Wesley, 2004 ] in Greek ( 8 coauthors ). Papazissis, Press, Athens, 2009 - 2011.

#### ***B. Scientific Articles***

1. « New Infrared Absorption Bands of Alkali Vapors»  
N.D. Bhaskar, E. Zouboulis, T. McClelland and W. Happer, Phys. Rev. Lett. **42**, 640 (1979).
2. «New Infrared Absorption Bands of Cesium Vapor»  
E. Zouboulis, N.D. Bhaskar, A. Vasilakis and W. Happer, J. Chem. Phys. **72** (4), 2356 (1980).
3. «Laser Excited Cross Fluorescent Emission from Cesium Molecules»  
N.D. Bhaskar, E. Zouboulis, R. Novack and W. Happer, Chem. Phys. Lett. **63**, 55 (1979).
4. «Raman Spectroscopic Study of the Effects of Opiates on Dipalmitoylphosphatidylcholine (DPPC) Dispersions»  
D. Yova, E. Zouboulis, E. Liarokapis and S. Loukas, J. Raman Spectroscopy **21**, 251 (1990).
5. «Refractive Index and Elastic Properties of MgO up to 1900 K»  
E. Zouboulis and M. Grimsditch, J. Geophys. Res. **96** (B3), 4167 (1991).

6. «Refractive Index and Elastic Properties of Single Crystal Corundum  $\alpha$ - $\text{Al}_2\text{O}_3$  up to 2100 K»  
E. Zouboulis and M. Grimsditch, *J. Appl. Phys.* **70** (2), 772 (1991).
7. «Raman Scattering in Diamond up to 1900 K»  
E. Zouboulis and M. Grimsditch, *Phys. Rev. B* **43**(15), 12490 (1991).
8. «The Temperature Dependence of the Elastic Moduli of Monoclinic Zirconia»  
S.-K. Chan, Y. Fang, M. Grimsditch, Z. Li, M.V. Nevitt, V.M. Robertson and E. Zouboulis, *J. Am. Cer. Soc.* **74** (7), 1742 (1991).
9. «The Elastic and Electromechanical Properties of Tetragonal  $\text{BaTiO}_3$  Single Crystal»  
Z. Li, S.-K. Chan, M. Grimsditch and E. Zouboulis, *J. Appl. Phys.* **70** (12), 7327 (1991).
10. «Surface Waves on the a,b and c Faces of Untwinned Single Crystals of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ »  
E. Zouboulis, S. Kumar, U. Welp, C.H. Chen, S.-K. Chan, M. Grimsditch, J. Downey and L. McNeil, *Physica C* **190**, 329 (1992).
11. «Elastic Constants of Diamond up to 1600 K»  
E. Zouboulis and M. Grimsditch, *High Pressure Research* **9**, 218 (1992).
12. «Elastic Constants of Boron Nitride»  
M. Grimsditch, E. Zouboulis and A. Polian, *J. Appl. Phys.* **76** (2), 832 (1994).
13. «Two-Wave and Induced Three-Wave Mixing on a Thin  $\text{Bi}_{12}\text{TiO}_{20}$  Hologram»  
M. P. Petrov, V.M. Petrov, E. Zouboulis and L.P.Xu, *Optics Comm.* **134**, 569 (1997).
14. « Temperature Dependence of the Elastic Moduli of Diamond – A Brillouin Scattering Study»  
E. Zouboulis, M. Grimsditch, A. K. Ramdas, and S. Rodriguez, *Phys. Rev. B* **57** (5), 2889 (1998).
15. «Grating Oscillations in Photorefractive Crystals»  
M. P. Petrov, V. M. Petrov, V.V. Bryskin, I. Zouboulis, A. Gerwens, and E.Kratzig, «*Optics Letters*», **22** (14), 1083 (1997).
16. «Polization Effects Associated with Two-Wave Interaction in Bismuth Titanate and Bismuth Silicate Crystals»  
M. P. Petrov, A.V. Shamrai, V. M. Petrov, and I. Zouboulis, *Phys. Solid State* **39**, (11), 1779 (1997).
17. «Advantages of Ultraviolet Raman Scattering for High Temperature Investigations»  
E. Zouboulis, D. Rensch, and M. Grimsditch, *Appl. Phys. Lett.* **77** (1),1

(1998).

**18.** «Pressure and Temperature Raman Study of  $\text{YLiF}_4$  »

E. Sarantopoulou, Y.S. Raptis, E. Zouboulis, and C. Raptis, *Phys. Rev. B* **59** (6), 4154 (1999).

**19.** «Trapping Properties of Sputtered Hafnium Oxide Films: Bulk Traps vs. Interface Traps »

E. Verrelli, G. Galanopoulos, I. Zouboulis, and D. Tsoukalas, *Thin Solid Films* **518**, 5579 (2010).

**20.** «Single-crystal Elastic Constants of Magnesium Difluoride ( $\text{MgF}_2$ ) to 7.4 GPa »

I. Zouboulis, F. Jiang, J. Wang and T.S. Duffy, *Journal of the Physics and Chemistry of Solids* **75** (1), 136-141 (2014).

### ***COMMUNICATIONS TO SCIENTIFIC MEETINGS OR CONFERENCES***

**1.** «Raman and Infrared Study of  $\text{TlSbS}_2$ »

W. Richter, E. Zouboulis, E. Anastassakis and J. Horak, in «Raman Spectroscopy», Eds. J. Lacombe and P. Huang, 1982, p. 453. [Proceedings of the 8th International Conference of Raman Spectroscopy, Bordeaux, 1982].

**2.** «Resonant Raman Scattering and Infrared Study of  $\alpha$ -Tel»

E. Anastassakis, E. Zouboulis and W. Richter, in «Raman Spectroscopy», Eds. J. Lacombe and P. Huang, 1982, p. 519 [Proceedings of the 8th International Conference of Raman Spectroscopy, Bordeaux, 1982].

**3.** «Elastic Constants of Diamond up to 1600 K»

E. Zouboulis and M. Grimsditch, presented in the APS March 1991 meeting in Cincinnati, Ohio, USA. *Bulletin of the American Physical Society* **36** (3), p. 993 (1991).

**4.** «The Elastic and Electromechanical Properties of Tetragonal  $\text{BaTiO}_3$  Single Crystal» Z. Li, S.K. Chan, M.H. Grimsditch and E.S. Zouboulis, presented in the 93rd meeting of the American Ceramical Society, Cincinnati, Ohio, USA.

**5.** «Elastic Constants of Diamond up to 1600 K»

E. S. Zouboulis and M. Grimsditch. XXIX Annual Meeting of the European High Pressure Research Group, Thessaloniki, 1991.

**6.** «Multiwave Mixing and Nonlinear Phenomena in  $\text{Bi}_{12}\text{TiO}_{20}$ »

M. P. Petrov, V.M. Petrov, E. Zouboulis and L.P. Xu, presented in the Second International Conference on Optical Information Processing, St. Petersburg, Russia, 1996.

**7.** «Multiwave Interaction and Nonlinear Holographic Recording in  $\text{Bi}_{12}\text{TiO}_{20}$ »

M. P. Petrov, V.M. Petrov, E. Zouboulis and L.P. Xu, presented in the CLEO/Europe - EQEC Conference, Hamburg, Germany, 1996.

**8.** «Multiwave Interactions and Nonlinear Phenomena in  $\text{Bi}_{12}\text{TiO}_{20}$ »

M. P. Petrov, V.M. Petrov, E. Zouboulis and L.P. Xu, presented in the Conference «Holography 96» for F.S.U. countries, St. Petersburg, Russia, 1997.

**9.** «Holographic Grating Oscillations in Photorefractive Materials»

M.P. Petrov, V.M. Petrov, V.V. Bryksin, E. Zouboulis, A. Gerwens and E. Krätzig, presented in the CLEO/QELS 97 Conference, Baltimore, USA, 1997.

**10.** «Temperature Dependence of Raman Scattering in  $\text{DyPO}_4$ »

E. Sarantopoulou, A. Perakis, E. Zouboulis and C. Raptis, presented in the XVI International Conference on Raman Spectroscopy, Cape Town, South Africa, 1998.