

SORT CURRICULUM VITAE OF CONSTANTINOS NOMICOS

PERSONAL DATA

CONSTANTINOS NOMICOS
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Educational Qualifications .

- 1) Ph.D. Physics - Semiconductors ,Athens University 1971
- 2) M.Sc. Electronics - Athens University 1969
- 3) B.Sc. Physics - Athens University 1966
- 4) Postgraduate Research Fellowship ,London University , Queen Mary College -
Photoelectronics devices 1972-1973.

EMPLOYMENT HISTORY AND EXPERIENCE.

1) 1982 - TO TODAY

- a) Innovation ,Research and Development of the Method of measuring geoelectrotelluric current variations for the prediction of earthquakes - VAN Method (Varotsos -Alexopoulos-Nomicos).
- b) Lecturer at the Army Engineering Corps in Quantum Mechanics - Digital Electronics and Computer Science .
- c) Lecturer at the "Korelco Inc." Computer Programmers SchoolFortan ,Basic and Pascal Languages and Computer Mathematics .
- d) Hellenic Center for the Advancement of Productivity (ELKEPA). Lecturer and project Engineer on Universal Modem and Digital products.
- e) Head of Electronics Department of the Technological Educational Institute of Chania ,Creta .Professor of Microprocessors (software and Hardware).
- f) Professor of Physics of the Technological Educational Institute of Pireaus, Department of Physics, and at the same time Ass. Councillor at Institute of Technological Education for recognition of foreigner diploma.
- g) Head of Electronics Department of the Technological Educational Institute of Athens ,. Professor of Microprocessors

2) 1966 -1982

Lecturer at the University of Athens - Physics Department .

A) Publications in Scientific Journals

- 1) Magnetophotoconductivity of semiinsulating GaAs and its behavior upon electron bombardment. by **C.D.Nomicos** and P.C.Euthymiou :Journal of Applied Physics Vol. 43 No. 12 p.5131 (Dec. 1972).
- 2) Behavior of magnetophotoconductivity of semiinsulating GaAs upon a-particle bombardment. :by P.C.Euthymiou ,**C.D.Nomicos** and A.Th.Philadelphus : Journal of Applied Physics Vol. 44 No.1 p.521 (1973)
- 3) Carriers lifetime of semiinsulating GaAs in the region of magnetoconcentration.: by **C.D.Nomicos** ,A.Th.Philadelphus and P.C.Euthymiou : Journal of Applied Physics Vol. 46 No.9 p.4106 (1975).
- 4) Modulation Transfer Function of an image passing through thin glass foil. By **C.D.Nomicos** : Journal of Applied Physics Vol.46 No.3 p.1417 (1975)
- 5) Carrier Concentration ratio and Hall mobility of semi-insulating GaAs upon photoexcitation and electron bombardment . by P.C.Euthymiou ,**C.D.Nomicos** and D.E.Theodorou : Journal of Applied Physics Vol.46 ,No. 1 P. 449 (1975).
- 6) Magnetophotoconductivity of semiinsulating GaAs as a function of light intensity. by **C.D.Nomicos** ,P.C.Euthymiou ang G.I.Papaioannou : Journal of Applied physics Vol. 47 No.7 P.3365 (1976).
- 7) Absolute efficiency of ZnCdS:Ag phosphor under fluoroscopy conditions. by **C.D.Nomicos** ,G.E.Giakoumakis ,P.C.Euthymiou and P.X.Sandilos : Journal of Applied Physics Vol. 49 p.3636 (1978) .
- 8) Absolute efficiency of CsI:Na phosphor screen under fluoroscopy conditions. by **C.D.Nomicos** ,G.E.Giakoumakis ,C.E.Ravanos ,P.C.Euthymiou and P.X.Sandilos :Journal of Applied Physics Vol.49 p.4564 (1978).
- 9) Magnetophotoconductivity of semiinsulating GaAs as a function of etching time . by C.Eftaxias ,P.C.Euthymiou and **C.D.Nomicos** : Journal of Physics and Chemistry of Solids :Solid State Communications Vol. 29 p.629 (1979).
- 10)Spectrum of light emmitted from ZnCdS:Ag screens excited by an electon beam. by G.E.Giakoumakis,**C.D.Nomicos** and P.C.Euthymiou :Applied Physics Vol.20 p.357 (1979).
- 11) Light angular distibution and modulation transfer function of a fluorescent screen excited by an electron beam. : by G.E.Giakoumakis ,**C.D.Nomicos** and P.C.Euthymiou :Canadian Journal of Physics Vol. 57 No.12 p.2190 (1979).
- 12) Temperature dependence of mobilities and carrier concentrations in semiinsulating GaAs. : by S.G.Haloulos, M.J.Papastamatiou ,G.T.Kalkanis

, **C.D.Nomicos** ,P.C.Euthymiou and G.J.Papaioannou :Solid State Communications: Vol.34 p.245 (1980).

13) Modulation transfer function of a screen excited by X-ray by G.E.Giakoumakis ,**C.D.Nomicos** and P.C.Euthymiou :Physics in Medicine and Biology :Vol.25 No.6 p.1105 (1980).

14) Absolute efficiency of ZnCdS:Ag screens excited by an electron beam . by G.E.Giakoumakis ,**C.D.Nomicos** and P.C.Euthymiou :Journal of Applied Physics : Vol. 51 No. 9 p.4976 (1980)

15) Some Aspects on the generation and transmission of light in phosphor screens excited by an electron beam . by G.E.Giakoumakis ,**C.D.Nomicos** ,P.C.Euthymiou :Canadian Journal of Physics :Vol.59 No.1 p.88 (1981).

16) Seismic electric currents: by P.Varotsos ,K.Alexopoulos , **C.Nomicos** :Practica of Athens Academy Vol.56 ,p.277 (1981) English language.

17) Seven Hour precursors to earthquakes determined from telluric currents.: by P.Varotsos ,K.Alexopoulos ,**K.Nomicos** :Practica of Athens Academy Vol.56 p.417 (1981) English language.

18) Determination of the epicenter of impending earthquakes from precursor changes of the telluric current . by P.Varotsos ,K.Alexopoulos ,**K.Nomicos** ,M.Varotsou ,E.Revelioti -Dologlou. :Practica of Athens Academy Vol.56 p. 434 (1981) English language.

19) Electrotelluric precursors to earthquakes. by P.Varotsos ,K.Alexopoulos ,**K.Nomicos** :Practica of Athens Academy Vol. 57 p.341 (1982) English language.

20) Determination of the epicenter of an earthquake. by P.Varotsos ,K.Alexopoulos ,**K.Nomicos** ,G.Papaioannou ,M.Lazaridou-Varotsou ,E.Dologlou-Revelioti. :Practica of Athens Academy Vol.57 p.364 (1982) English language.

21) Comments on the pressure variation of the Gibbs energy for bound and unbound defects . by P.Varotsos ,K.Alexopoulos and **C.Nomicos**. :Physica Status Solidi (b) Vol.111 ,p.581 (1982).

22) Prediction of Earthquakes from network of electrotelluric stations. by P.Varotsos, K.Alexopoulos, and **K.Nomicos** EOS Trans. Am. Geophy. Union 63:1258 (1982)

23) Temperature dependence of ZnCdS:Ag cathodoluminescence efficiency under electron beam excitation. by I.K.Kaliakatsos ,P.C.Euthymiou ,**C.D.Nomicos** ,and G.E.Giakoumakis : Applied Physics A Vol.31 p.213 (1983)

24) Parameters of the electrotelluric precursor to earthquakes of Kefallinia. by P.Varotsos ,K.Alexopoulos ,**K.Nomicos** ,E.Dologlou-Revelioti ,M.Lazaridou-Varotsou :Practica of Athens Academy Vol.58 p.250 (1983) English language.

- 25) Efficiency of earthquake prediction around Thessaloniki from electrotelluric precursors. by K.Meyer, P.Varotsos,, K.Alexopoulos, and **K.Nomicos** Tectonophysics Vol 160 p.153 (1985)
- 26) A frequency division multiplexing system designed on the basis of an abrupt filter. by **C.D.Nomicos** and G.E.Giakoumakis : IEEE Circuits and Devices Vol 1 No 4 p.14 (1985)
- 27) Absolute efficiency of Y₂O₂S:Tb screens under fluoroscopy conditions. by G.Giakoumakis and **C.Nomicos** J. Appl. Physics Vol 58 No 7 p.2742 (1985)
- 28) Light angular distribution of non-granular phosphor screen excited by X-Rays. by G.Giakoumakis and **C.Nomicos**. Phys. Med. Biol. Vol30, No1 p.21 (1985)
- 29) Earthquake prediction and electric signals. by P.Varotsos ,K.Alexopoulos , **K.Nomicos** and M.Lazaridou Nature Vol 322 ,p.120 (1986)
- 30) Premonitory seismic electrotelluric signals outside the Greek boundary. by P.Varotsos ,K.Alexopoulos and **K.Nomicos** Practica of Athens Academy (English lang.) Jan. 1988
- 31) Official earthquake prediction procedure in Greece.: by P.Varotsos,K.Alexopoulos, **K.Nomicos**, and M.Lazaridou: Tectonophysics Vol 152 p.193 (1988)
- 32) Earthquake prediction in Greece from seismic electric signals period January 1,1987- June 30 , 1989 :by P.Varotsos, K.Alexopoulos ,**K.Nomicos** and M.Lazaridou: Practica of Athens Academy Vol.64 p.514 (1989) (English lang.)
- 33) Absolute efficiency of Gd₂O₂S:Tb screens under fluoroscopy conditions : by G.E.Giakoumakis ,**C.D.Nomicos** and P.X.Sandilos : Phys. Med. Biology Vol 34,No 6, 673-678 , 1989
- 34) Absolute efficiency of rare earth oxysulphide screens in reflection mode observation . By G.Giamoumakis , C.Nomicos , E.Yiakoumakis and E. Evangelou. Physics in Medicine and Biology 3, ,1017-1023, 1990
- 35) Prediction of 5.7 Richter earthquake of January 23, 1992. by P.Varotsos, K.Alexopoulos, **K.Nomicos** and M.Lazaridou. : Practica of Athens Academy Vol.67 p.213 (1992).
- 36) A versatile method for measuring resistivity ,chargeability and percent frequency effect:. by M.Bakatsakis and **K.Nomikos** Applied Research Review of the Piraeus TEI Vol 1 No1 p173-188 (English Lang.) 1992
- 37) Y₂O₂S:Eu phosphor screens evaluation. By G.Giakoumakis , C.Nomicos , P.Skountzos , S.Koutroubas , A.Zisos , M.Katsarioti, J.kalliakatsos ,E.Rovithi ,G.Panayiotakis , and E.Evangelou. : Medical Physics (Am. Assoc. Phys. Med.) vol20 p.79 1993.

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- 43) D.Cavouras, I. Kandarakis, G. Panayiotakis, E. Evangelou, **C. Nomicos**. "An evaluation of the Y₂O₃:Eu³⁺ scintillator for application in medical X-ray detectors and image receptors. Med Phys 23 (12), 1965-1975, 1996.
- 44) Kandarakis, D. Cavouras, G. S. Panayiotakis, and **C. D. Nomicos** "Evaluating x-ray detectors for radiographic applications: Comparison of ZnSCdS:Ag with Gd₂O₂S:Tb and Y₂O₂S:Tb screens", Phys. Med. Biol. 42, 1351-1373, 1997.
- 45) Kandarakis, D. Cavouras, GS Panayiotakis, D. Triantis, and **C.D. Nomicos** "An experimental method for the determination of spatial frequency dependent detective quantum efficiency (DQE) of scintillators used in x-ray imaging detectors", Nucl. Instr. and Meth. in Phys. Res A., 399, 335-342, 1997.
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- 47) **K. Nomikos**, *F. Vallianatos*, J. Kaliakatsos, S. Sideris, and M. Bakatsakis. "Latest aspects of telluric and electromagnetic variations associated with shallow and intermediate depth earthquakes in South Aegean". *Annali di Geofisica*, vol. XL, No 2 361-374, 1997
- 48) **K. Nomikos** and *F. Vallianatos*. "Transient electric variations associated with large intermediate-depth earthquakes in South Aegean" Tectonophysics vol.269, 171-177, 1997.
- 49) D Cavouras, I Kandarakis, G Panayiotakis, E. Kanellopoulos, D. Triantis, and **C Nomicos** "An investigation of the imaging characteristics of the Y₂O₂S:Eu phosphor

for application in x-ray detectors of digital mammography". *Applied Radiation and Isotopes*, 49, 931-937, 1998.

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57) D. Cavouras, I. Kandarakis, P. Prassopoulos, E. Kanellopoulos, **C. D. Nomicos**, and G. S. Panayiotakis. "A method to evaluate the performance of x-ray imaging scintillators by means of the brightness-sharpness index (BSI)", *Acta Radiologica*, 40: 211-216, 1999.

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medical imaging systems by the effective fidelity index (EFI) method." European Journal of Radiology, 30:61-66, 1999.

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- 79) N. Kalivas, L. Costaridou, I. Kandarakis, D. Cavouras, **C.D. Nomicos**, G. Panayiotakis, Optical gain signal-to-noise ratio transfer efficiency as an index for ranking of phosphor photodetector combinations used in X-ray medical imaging *Appl. Phys. A* 78, 915–919, 2004.
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