

**MU\_FSCI\_PHYS\_SOLI\_DATA\_Mohamed.El-Zaidia**

**Prof. Dr. M. M. El-Zaidia.**

*Prof. of Solid State Physics and Former Dean of the Faculty*

*of Science Menoufia University Shebin El-Koom*

*Egypt*

Name: M. M. El-Zaidia

Date of Brith: 16/9/1942

Status: Married with three children

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## MU\_FSCI\_PHYS\_SOLI\_LINK\_Mohamed.El-Zaidia

### II - Certificates

<b>Degree Awarded</b>	<b>Date of Graduation</b>	<b>Subject of Study</b>	<b>University</b>	<b>City</b>	<b>Country</b>
1) B.Sc Applied Physics	May 1968	Applied Physics	Ain Shams	Cairo	Egypt
(Distinction & Hounr)	1972		Ain Shams	Cairo	Egypt
2) M.Sc.	1975	Solid state Physics	Ain Shams	Cairo	Egypt
3) Ph.D.		Solid state Physics			

### III - Experience of Teaching and management

<b>Employment</b>	<b>Period</b>	<b>Dept.</b>	<b>Faculty</b>	<b>University</b>	<b>City</b>	<b>Country</b>
Demonstrator	1968-1972	Physics	Science	Ain Shams	Cairo	Egypt
Lecturer Ass.	1972-1975	Physics	Science	Ain Shams	Cairo	Egypt
Lecturer	1975-1982	Physics	Science	Ain Shams	Cairo	Egypt
Prof. Ass.	1982-1986	Physics	Science	Menoufia	Shebin El-Koom	Egypt
Professor	1986-Now	Physics	Science	Menoufia	Shebin El-Koom	Egypt
Vice Dean	1987-1991	Physics	Science	Menoufia	Shebin El-Koom	Egypt
Dean	1992-1998	Physics	Science	Menoufia	Shebin El-Koom	Egypt

### IV - Experience of Research

#### i. Leader of the following laboratories at Menoufia University :

- a) Solid state Physics Research Lab.
- b) Amerphous Semiconductor physics Research Lab.

c) Superconductivity and low temperature Physics Research Lab.

**ii. Degrees awarded under my Supervision:**

- [eight] Ph D. Degree in Physics.

- [25 ] M.Sc. Degree in Physics.

**iii. List of Publication**

1 - The effect of addition of 5% S & Te on the electrical properties of Se.

J. Non-Cryst. Solids. 5. (1973), 519.

2 - Study of the phase transformation of TeSe 20 by using the thermal conductivity and density changes.

Int. Conf. on statistics, computer science and Social research, Cairo , Egypt . 5-8 April, 1976, 83.

3 - Crystallization and electrical properties of some amorphous Se-Te solids.

Egyptian Journal of physics. 7, 1, (1976), 1-8.

4 - Thermal and Electrical conductivities during the devetrification of TeSe 12.5 amorphous alloys.

J. Non-Cryst. Solids. 27, (1978), 256.

5 - Stip-Wise Crystallization and Kinetics of Selenium Containing 2 at% Te.

Ind. J. Tech. 16, (1978), 69.

6 - Effect of Crystalline selenium percentage on the electrical conductivity, Activation Energy and Density of amorphous Se.

Ind. J. Tech. 16, (1978), 555.

7 - Phase transformation Electrical properties and transition points of Se 80 Te 20-x S x ,

Ind. J. Tech. 18, (1980), 64.

8 - Transformation kinetics of Se 80 Te 15 S 5 .

Ind. J. Tech. 18 (1980), 89.

9 - The effect of electric field on D.C. conductivity of mixed amorphous crystalline selenium.

Ind. J. Tech. 19, (1981), 214.

10- Thermal conductivity of  $\text{Se}_{100-x}\text{S}_x$ .

Ind. J. Tech. 19, (1981), 285.

11- Amorphous-Crystalline transformation and X-ray studies of  $\text{Se}_{80}\text{Te}_{18}\text{S}_2$ .

Physics & Chemistry of glasses. 22, (1981), 147.

12- Electrical conductivity and bond concentration of liquid  $\text{Se}_{80}\text{Te}_{20-x}\text{S}_x$ .

J. Phys. D: Appl. Physics.14, (1981), 2275.

13- Thermal effects on the I-V Characteristics of  $\text{As}_{34}\text{Te}_{50}\text{S}_{16}$  Chalcogenide glasses.

J. Pure and Appl. Sci.3, 1984), 7.

14- Electrical, DTA, and X-ray studies on amorphous  $\text{Se}_{80}\text{Te}_{10}\text{S}_{10}$ .

J. Pure and Appl. Sci.3, (1984), 15.

15- Infra-Red spectra, Electron spin resonance spectra and Density of  $(\text{TeO}_2)_{100-x}(\text{WO}_3)_x$  and  $(\text{TeO}_2)_{100-x}(\text{ZnCl}_2)_x$  Glasses.

Phys. Stat. Sol. (a) 91, (1985), 637.

16- Isothermal Crystallization and kinetics of amorphous  $\text{As}_{34.2}\text{Ge}_x\text{Te}_{65.8-x}$ .

Phys. Stat. Sol. (a). 93 K111 (1986).

17- Electrical resistivity, nucleation and crystal growth in the amorphous  $\text{Se}_{100-x}\text{Sb}_x$ .

J. Material Sci. 22, (1987). 1618.

18- Isothermal and Non-Isothermal Devitrification of  $\text{Se}_{80}\text{Te}_{14}\text{S}_6$  and  $\text{Se}_{80}\text{Te}_{16}\text{S}_4$  glasses.

J. Pure and Appl. Sci. 5 (1986); 59.

19- Non-Isothermal kinetics and structure studies of amorphous  $\text{As}_{34.2}\text{Ge}_x\text{Te}_{65.8-x}$

Egypt . J. phys, 17, 1, (1986), 17.

20- The effect of temperature and uniaxial pressure on the I-V characteristics of the system  $\text{As}_{34.2}\text{Ge}_x\text{Te}_{65.8-x}$

Accepted for publication in the Egyptian Journal of Solids (1986).

21- Physical properties and structure studies  $\text{Se}_{100-x}\text{Sb}_x$

Thermochimica acta, 116 (1987), 35.

22- Pressure effect on the turn over points of the I-V Characteristics curves of  $\text{SeSb}$

Accepted for publications in the Egyptian Journal of Solid (1986)

23- Temperature effect on the turn over points of the I-V Characteristics of  $\text{SeSb}$

Scientific J. Fac. Sci. Menoufia Uni. vol. 3 (1989) 27.

24- Role of deposition condition in the structure and topographical feature of thin doped films on glass substrate. Accepted for publication in the Journal of Faculty of Education, Ain Shams University (1987), Egypt .

25- The influence of annealing on the density and mechanical properties of amorphous  $\text{SeSb}$ .

J. Appl. Physics 64(7), (1988), 103.

26- Electrical thermal transport in the  $\text{As}_{34.2}\text{Te}_{65.8-x}\text{Ge}_x$  bulk chalcogenide.

J. Physica B 154(1988) 105-110.

27- Thermal conductivity of vitreous system  $(\text{ZnO})-(\text{P}_2\text{O}_5)$ .

J. material Science 27 (1992) 312.

28- Thermal Conductivity of Bismuth Phosphate Glasses.

Ind. J. Tech. Vol. 27(1989), 498—500.

29- Doping Effect on the D.C. electrical resistance of the high temperature superconducting  $\text{Y-Ba-CuO}$  system.

Scientific J. Faculty of Science, Menoufia Univ. 3(1989), 65.

30- Thermoelectric power of the vitreous  $\text{Bi}_2\text{O}_3-\text{P}_2\text{O}_5$ ,

Scientific J. Fac. Sci. Menoufia Uni. Vol.3 (1989), 1.

31-Structural relaxation investigations by thermal expansion measurements in Se-Sb glasses. Ind. J. Phys. 64A(4)(1990), 263.

32- Internal Friction in Se-Sb Glasses.

J. Material Sci. 26(1991)3477.

33- Electronic Behavior of Fe-Iones at Cu Sites.

J. Material Sci. 27(1992)6241.

34- Ultrasonic studies of some physical properties of popular Egyptian wood.

Represented at 1 St International Conference on Physics, October (1991) Trapoli-Libia.

35- The effect of Gamma Radiation on the critical temperature of the high temperature superconductors  $Tl_2Ba_2CaCu_3O_7$ .

36- Radiation Resistance of The High T Superconductor  $Y_1Ba_2Cu_3O_{7-d}$  up to 27.25 MRad.

Scientific J. Fac. Sci. Menoufia Uni. Vol. V(1991) 8.

37- Characteristics of  $ND + xBa - xCu$  Superconductors. 1 2 306.5+Y

Scientific J. of Fac. Sci. Menoufia Uni. Vol. V(1991), 55.

38- The effect of Gamma-Radiation On the High Tc Superconductors  $Er_1Ba_2Cu_3O_{7-d}$

Jpn. J. Appl. Phys. 31(1992)44.

39- The Dielectric Properties of Amorphous Sb S Ge to be published.

41- A.C. Conductivity of SbSGe, To be published.

42- Preparation and Structural study of Superconductor. To be published.

43- Electrical Resistivity and magnetic Susceptibility of Superconductors, To be published

46- Effect of Low Silicon Concentration on High T c Y-Ba-CuO. Accepted for Publication in VX conference of solid state science and applications.

47. “ Resistivity and magnetic susceptibility studies of  $TlCaBaCuO$  before and after doping with LiF ”

El-Hamalawy, A.A., El-Zaidia, M.M., Ammar, A.A. and M.M. Elkholy,

*J. Superconductivity, Vol. 6, No. 2, 111 (1993) (.*

48. “ The dielectric properties of amorphous SbSeGe chalcogenide glasses ”

A.A. El-Hamalawy, M.M. El-Zaidia, M.M. Elkholy, and L.M Sharaf El-Deen  
*Electronic Engineering Bulletin, No. 5, 30 (1993).*

49. “ The optical absorption spectra studies for amorphous GeSeSb chalcogenide glass system”

A.A. El-Hamalawy ,M.M. El-Zaidia, M.M. Elkholy, and L.M. Sharaf El-Deen,  
*Electronic Engineering Bulletin, No. 5, 49 (1993) .*

50. “ Density, DTA, and DC conductivity of SbSeGe chalcogenide glasses ”

A.A. El-Hamalawy, M.M. El-Zaidia, A.A. Ammar and M.M. Elkholy ,

*Materials Science: Materials In Electronics, 5, 147 (1994).*

51. [Response of YBCO superconductor doped with strontium after gamma irradiation](#)  
*Radiation Physics and Chemistry , Volume 47, Issue 5 , May 1996 ,Pages 691-694*  
M. M. Elkholy, L. M. Sharaf El-Deen, M. M. El-Zaidia, A. A. El-Hamalawy, W. M. Hussain