Poster Session 2

Amorphous, ceramics, composites etc.

Wesnesday afternoon 16:00 p.m.-19:00 p.m.

1. **ATOM MOVEMENTS IN METALLIC GLASSES STUDIED BY DYNAMIC SHEAR MODULUS MEASUREMENTS**

H. Numakura, Y. Ueno, M. Hojo, A. Matsumoto, R. Hirohata, T. Ichitsubo, E. Matsubara, J. Saida, N. Nishiyama

2. **AMPLITUDE-DEPENDENT INTERNAL FRICTION OF GLASSES NEAR GLASS TRANSITION TEMPERATURE**

Y. Hiki, R. Tamura, S. Takeuchi

3. **MECHANICAL RELAXATION PROCESSES IN IONIC GLASSES VS. THEIR FREQUENCY DEPENDENT ELECTRIC RESPONSE**

A. Mandanici [a], A. Raimondo [a], M. Cutroni [a], M. Federico [a], F. Rocca [b]

4. **SECONDARY RELAXATIONS IN HETEROCYCLIC POLYMER NETWORKS: A STUDY OF MECHANICAL SPECTROSCOPY**

Giovanni Carini Jr, Giuseppe Carini, Giovanna D'Angelo, Sergio La Rocca, Gaspare Tripodo, Antonio Bartolotta, Gaetano Di Marco

5. **ULTRASONIC AND HYPERSONIC BEHAVIOR IN CESIUM BORATE GLASS**

Giovanni Carini jr, Gaspare Tripodo, Lars Borjesson

6. **ULTRASONIC RELAXATIONS AND ANHARMONICITY OF ALKALY BORATE GLASSES**

Giovanni Carini Jr, Giuseppe Carini, Giovanna D'Angelo, Gaspare Tripodo

7. **EFFECTS OF THERMAL HISTORY ON THE ACOUSTIC ATTENUATION OF DRY AND WET B_2O_3 GLASSES**

G. D'Angelo, C. Crupi, V. Conti Nibali, M.A.Ramos

8. **ELASTIC PROPERTIES OF VANADIUM PENTOXIDE AGGREGATES AND TOPOLOGICAL DEFECTS**

L.V. El'nikova

9. **PERCOLATION THRESHOLD AND RUBBER BEHAVIOUR OF SMECTIC ELASTOMERS**

L.V. El'nikova and B. I. Ostrovskii

10. **INFLUECE OF THE CROSSLINK LEVEL IN THE DYNAMIC MECHANICAL PROPERTIES OF STYRENE BUTADIENE RUBBER**

A. Ghilarducci, H. Salva, A. J. Marzocca

11. **MORPHOLOGY AND DYNAMICAL BEHAVIOR OF GRAFTED COPOLYMERS**

S. Etienne, M. Billy, A. Jonquières, R. Clément, and L. David

12. **EFFECTS OF OXIDATION ON AN EPOXY-AMINE THERMOSET STUDIED BY MECHANICAL SPECTROSCOPY**

L. Chocinski-Arnault, L. Olivier, M. C. Lafarie-Frenot

13. **STUDY OF EPOXY RESIN CURING PROCESS BY APPLYING INTERNAL FRICTION TECHNIQUE**

M. Kubisztal, G. Haneczok, A. Chrobak, A. Kubik, J. Rasek

14. LOW FREQUENCY INTERNAL FRICTION STUDY OF LITHIUM-ION CONDUCTOR $Li_5La_3M_2O_{12}$ (M=Ta, Nb)

X. P. Wang, Y. X. Gao, W. G. Wang, T. Zhang, and Q. F. Fang

15. ANELASTIC RELAXATION FROM HYDROGEN AND OTHER DEFECTS IN La-DOPED $BaTiO_3$

F. Trequattrini, F. Cordero, T. Kolodiazhnyi

16. INTERSTITIAL OXYGEN MOBILITY IN $RuSr_2GdCu_2O_{8+\delta}$ STUDIED BY MECHANICAL SPECTROSCOPY

J. M. A. Gimenez, C. R. Grandini, A. R. Jurelo

17. PHASE TRANSITION STUDY IN PLZT FERROELECTRIC CERAMICS BY MECHANICAL AND DIELECTRIC SPECTROSCOPY

P. S. Silva Jr, O. Florêncio, E.R. Botero, J.A. Eiras, D. Garcia

18. STUDY OF DAMAGE OF HIGH ZIRCONIA FUSED-CAST REFRACTORIES BY MEASUREMENT OF YOUNG'S MODULUS AND INTERNAL FRICTION

A. Sibil, J. P. Erauw, F. Cambie, M. R'Mili, N. Godin, G. Fantozzi

19. THE TRANSVERSE SOUND DAMPING AND POISSON COEFFICIENT OF $La_{0.6}Sr_{0.2}Mn_{1.2}O_3$: A CORRELATED BEHAVIOR

A. B. Beznosov , P. P. Pal-Val, E. L. Fertman, L. N. Pal-Val, A. V. Pashchenko, V. P. Pashchenko

20. PHASE TRANSITIONS IN $Nd_{0.63}Y_{0.06}Ca_{0.31}MnO_3$: EFFECTS IN THE ELASTICITY AND INTERNAL FRICTION

A. B. Beznosov, L. N. Pal-Val, E. L. Fertman, P. P. Pal-Val

21. MECHANICAL SPECTROSCOPY IN CARBON NANOTUBE REINFOCED POLYMERS

D. Mari, R. Schaller

22. INTERNAL FRICTION OF A SILICON MICROMECHANICAL OSCILLATOR*

Xiao Liu, H. Haucke, J. F. Vignola, H. J. Simpson, J.W. Baldwin, B. H. Houston, D.M Photiadis

23. PATTERNS BY TIME DIFFRACTION-GRATING IN RESONANT OSCILLATION SPECTRUM OF PIEZOELECTRIC POWDERS

F. Tsuruoka

24. HIGH TEMPERATURE MECHANICAL LOSS AND CREEP BEHAVIOR OF FINE-GRAINED ZIRCONIA CONTAINING NANO-SIZED REINFORCEMENTS.

R. Schaller, C. Ionascu

25. INVESTIGATION OF HYDROGEN STORAGE IN CARBON NANOTUBE - MAGNESIUM MATRIX COMPOSITES

R. Schaller, D. Mari, S. Marques dos Santos, E. Carreño-Morelli, I. Tkalcec

26. INTERNAL FRICTION IN METAL MATRIX COMPOSITES

Z. Trojanová, P. Lukáč

27. COMPOSITES WITH ULTRA HIGH DAMPING CAPACITY BASED ON POWDER METALURGY SMA

M. Barrado, G. A. López, M. L. Nó and J. San Juan

28. INFLUENCE OF CRACKS ON THE AMPLITUDE DEPENDENT INTERNAL FRICTION

Agnieszka Mielczarek, Werner Riehemann

29. INTERNAL FRICTION SPECTRA OF THE ErBaCuO SUPERCONDUCTOR CERAMICS DOPED WITH GALLIUM

E.E. Sanaia, E. Kutelia, G. Darsavelidze

30. THE EFFECT OF CROSSED ELECTRIC AND MAGNETIC FIELDS IN LOADED ROCK SPECIMENS

A.S. Zakupin, L.M. Bogomolov, D.N. Miasnikov, V.A. Mubassarova, G.S. Zakupina, B.V. Borovskii

31. DEVELOPMENT OF A NICKEL POLYMER COMPOSITE BY USING FRIENDLY ENVIRONMENTAL POLYMERIC SURFACTANT

A. M. A. Omar

32. INFLUENCE OF THE HEAT TREATMENT ON THE MECHANICAL CHARACTERISTICS OF SILICON PLATES

E. M. Godjayev, R. K. Guseynov, N. N.Mursakulov, Sh. M. Hasanli

33. STUDY OF ELASTIC AND ANELASTIC PROPERTIES OF NEW COMPOSITES BASED ON A FERROELECTRIC MATERIAL AND A FERRITE

Kalgin A.V. and Gridnev S.A.

34. RELAXATION INTERNAL FRICTION IN A "FERRITE – FERROELECTRIC" COMPOSITE

A.G. Gorshkov and S.A. Gridnev

35. INELASTIC PHENOMENA IN NANOCOMPOSITES Cox $(CaF)_{100-x}$

Kalinin Yu.E., Sitnikov A.V., Tarasov D.P.