

POSTER SESSION II
TUESDAY, 5 AUGUST 2003
19:00 – 21:30, JOHNSON ATHLETIC CENTER

Piezoelectric II

DEVELOPMENT OF PLZT CERAMICS AND PIEZOCOMPOSITES FOR UNDERWATER SENSORS AND ACTUATORS

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UNDERWATER SOUND PROJECTOR/RECEIVER APPLICATIONS OF CYMBAL TRANSDUCER

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SINTERING BEHAVIOR AND PIEZOELECTRIC PROPERTIES OF Li₂O DOPED 0.2Pb(Mg_{1/3}Nb_{2/3})O₃-0.8Pb(Zr_{0.475}Ti_{0.525})O₃ CERAMICS

B.M. Jin*¹, I.W. Kim², J.S. Kim², D.S. Lee², C.W. Ahn², J.H. Kwon³, J.S. Lee³, J.S. Song⁴, S.J. Jeong⁴

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PROCESSING AND DIELECTRIC PROPERTIES OF SOL-GEL DERIVED PMN-PT(68:32) THIN FILMS

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WATER-IMMERSIBLE MICROMACHINED Pb(Zr,Ti)O₃ THIN FILM ACTUATOR

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PIEZOELECTRIC PROPERTIES OF BI-LAYERED FERROELECTRICS

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MICROSTRUCTURAL CONTROL OF BaTiO₃ THICK FILMS FABRICATED BY UTILIZING SLIDE-OFF TRANSFER PRINTING

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PIEZOELECTRICITY IN POLED SILICA FILMS WITH TETRAVALENT METAL DOPANTS

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THE PROPERTY OF PIEZOELECTRIC STRAIN OF ZnO THIN FILM USING SAW DEVICE

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Microwave Application II (Thin Film)

FABRICATION OF PZT-BASED THIN FILM BULK ACOUSTIC WAVE RESONATORS USING MULTILAYER REFLECTOR

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Mg ADDITIVES TO (Ba,Sr)TiO₃ THIN FERROELECTRIC FILMS FOR LOW DIELECTRIC LOSSES AT MICROWAVES

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CHARACTERIZATION OF Ni-DOPED BST THIN FILMS FOR TUNABLE MICROWAVE DEVICE APPLICATIONS

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COPLANAR WAVEGUIDE USING FERROELECTRIC THIN OXIDE FILM: MEASUREMENT AND SIMULATION

W-J. Kim^{*1}, T-K. Song¹, and S-S. Kim¹, S.E. Moon², E-K. Kim², S-J. Lee², S-K. Han², K-Y. Kang², H-Y. Kim², Y-T. Kim², H-C. Ryu², C-S. Kim², and M-H. Kwak²

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MICROWAVE DIELECTRIC PROPERTIES OF FERROELECTRIC BaTiO₃ THIN FILM

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MICROWAVE DIELECTRIC PROPERTIES OF FERROELECTRIC SrBi₂Ta₂O₉ THIN FILMS USING INTERDIGITATED CAPACITORS

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STUDY OF MICROWAVE DIELECTRIC PROPERTIES OF PEROVSKITE THIN FILMS BY NEAR-FIELD MICROSCOPY

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Optical and Photonic Applications and Studies II (Thin Film)

FABRICATION AND OPTICAL PROPERTIES OF TWO-DIMENSIONAL TiO₂ PHOTONIC CRYSTALS

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PHOTOLUMINESCENCE OF EPITAXIAL ZnO:Ga THIN FILMS FABRICATED BY PULSED LASER DEPOSITION

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PREPARATION AND CHARACTERIZATION OF PURE AND IMPURITY ZINC OXIDE AND DOPED ZINC OXIDE THIN FILMS BY PULSED LASER DEPOSITION

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ZnO THIN FILMS ON SAPPHIRE (0001) SUBSTRATES ANNEALED IN OXYGEN

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PHYSICAL PROPERTIES OF ZnO THIN FILMS ON MgO (100) SUBSTRATES DEPOSITED BY PLD

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ELECTRICAL AND OPTICAL PROPERTIES OF ZnO:M(DOPANT) FILMS MADE BY ELECTRON BEAM EVAPORATOR

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EFFECT OF PROCESSING TEMPERATURES ON ELECTRICAL AND OPTICAL PROPERTIES OF BaTiO₃/SrTiO₃ MULTILAYER THIN FILMS

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VANADIUM OXIDE FOR OPTICAL SWITCHING IN MICROPHOTONICS

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Ferroelectric II (Ceramics)

ELECTROCERAMICS RESEARCH IN INDIA

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**STRUCTURE PROPERTY RELATIONS IN NOVEL
TUNGSTEN BRONZE CERAMICS**

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**PREPARATION OF BULK Pb (Zr, Ti)O₃ WITH CRYSTALLOGRAPHIC
TEXTURE BY TEMPLATED GRAIN GROWTH METHOD**

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**MECHANISMS OF TEXTURE DEVELOPMENT IN BISMUTH LAYER-
STRUCTURED FERROELECTRICS PREPARED BY TEMPLATED GRAIN
GROWTH**

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**GRAIN ORIENTATION EFFECTS OF Nb- AND V-DOPED Bi₄Ti₃O₁₂
FERROELECTRIC CERAMICS**

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**ELECTRICAL PROPERTIES OF BISMUTH TITANATE BASED CERAMICS
WITH SECONDARY PHASES**

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**DISTRIBUTION OF MINOR ELEMENTS IN BARIUM TITANATE
PEROVSKITE CERAMICS**

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ELECTRICAL PROPERTIES OF ACCEPTOR DOPED BaTiO₃

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**FERROELECTRIC PROPERTY AND CRYSTAL STRUCTURE OF KNbO₃
BASED CERAMICS**

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QUASICONTINUUM AND ITS APPLICATIONS TO FERROELECTRICS

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Dielectric II (Ceramics)

CRYSTAL GROWTH AND DIELECTRIC PROPERTIES OF NEW FERROELECTRIC BARIUM TITANATE

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MICROSTRUCTURE OF X7R TYPE BASE-METAL-ELECTRODED BaTiO₃ CAPACITOR MATERIALS CO-DOPED WITH MgO/Y₂O₃ ADDITIVES

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MICROWAVE SINTERING OF BASE-METAL-ELECTRODED BaTiO₃ CAPACITOR MATERIALS Co-DOPED WITH MgO/Y₂O₃ ADDITIVES

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DIELECTRIC PROPERTIES OF BARIUM TITANATE CERAMICS PREPARED FROM POWDERS PRODUCED BY WET CHEMICAL ROUTES

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DIELECTRIC PROPERTIES OF BaBi₂Nb_{2-x}V_xO₉ CERAMICS (0≤x≤0.2)

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INFLUENCE OF V₂O₅ ON THE SINTERING AND DIELECTRIC PROPERTIES OF SrBi₂Ta₂O₉ CERAMICS

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GLASS SELECTION FOR INHIBITING SILVER MIGRATION IN MULTILAYER CERAMIC CAPACITORS

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Advances in Synthesis and Processing II (Bulk)

CERIUM OXIDE/NICKEL LAMINAR COMPOSITES BY EPD

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SYNTHESIS OF Pb(Zr,Ti)O₃ NANOPOWDERS BY MILLING COPRECIPIATION METHOD

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CHEMICAL PREPARATION OF Pb(B_{0.5}Nb_{0.5})O₃ (B=RARE-EARTH ELEMENTS) POWDERS

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AQUEOUS SUSPENSION FOR TAPE CASTING OF PZN-BASED COMPOSITIONS

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PREPARATION AND CHARACTERIZATION OF FINE BaTiO₃ POWDERS BY HYDROTHERMAL SYNTHESIS

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ZEOLITE LAYERS BY HIGH PRESSURE HYDROTHERMAL SYNTHESIS

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SINTERING BEHAVIOR OF YTTRIA STABILISED ZIRCONIA

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REACTION SINTERING BEHAVIORS OF ITO CERAMICS WITH DIFFERENT SnO₂ CONTENT AND PARTICLE SIZE

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SINTERING OF DIAMOND WITH METALS

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FABRICATION OF SnO₂ NANOSIZED POWDER BY MODIFIED PRECIPITATION METHOD

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SYNTHESIS AND CHARACTERIZATION OF La₂Mo₂O₉

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FUNDAMENTAL LIMITS OF ORGANIC PACKAGES AND BOARDS AND THE NEED FOR NOVEL CERAMIC BOARDS FOR NEXT GENERATION ELECTRONIC PACKAGING

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DIRECT OXIDATION OF AN ALLOY PRECURSOR COMPLETE OXIDATION OF BISMUTH AND ZINC POWDER

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Characterization II (Bulk)

ATOMISTIC SIMULATION OF ABO₃ TYPE CERAMICS IN THREE-DIMENSIONS

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ELECTRICAL BEHAVIOR OF BaO-Nd₂O₃-Sm₂O₃-TiO₂ WITH GLASS/OXIDE ADDITIVES ANALYZED BY IMPEDANCE SPECTROSCOPY

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MEASURING TECHNIQUE TO CHARACTERIZE NEW EXHAUST GAS SENSORS

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NEW WAY TO MEASURE KINETICS: SETUP IMPROVED BY CFD AND EXPERIMENTS

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STRUCTURE DISTORTION AND FERROELECTRIC PROPERTIES OF ABi₂Ta₂O₉ (A=Ba, Sr, and Ca)

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STRUCTURAL BEHAVIOR AND DIELECTRIC PROPERTIES IN (1-x)LaMg_{0.5}Ti_{0.5}O_{3-x}-xLa_{2/3}TiO₃ PEROVSKITES

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PINNING EFFECT IN Y_{1-x}Gd_xBa₂Cu₃O_{7-δ} SYSTEM

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THE CHANGE OF THE SURFACE MORPHOLOGY OF THE HEXAGONAL GaN PYRAMID BY ANNEALING PROCESS

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MADELUNG ENERGY AND PHASE STABILITY OF TUNGSTEN BRONZE STRUCTURED KLN CERAMICS

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PHASE TRANSFORMATION BEHAVIOR OF NANOCRYSTALLINE ITO POWDERS DURING HEAT TREATMENT

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EFFECT OF NANO-SCALE ADDITIONS ON THE ENHANCEMENT OF SUPERCONDUCTIVITY IN Y-Ba-Cu-O MATERIALS

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Sensor and Varistor, PTCR, NTCR

FATIGUE DAMAGE AND DURABILITY ASSESSMENT OF MEMS SILICON-BASED COMPONENTS

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PTCR BEHAVIOUR IN La-BaTiO₃

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FABRICATION OF SnO₂ PARTICLE-LAYERS USING THE ELECTROSPRAY METHOD AND GAS SENSING PROPERTIES FOR H₂

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PRASEODYMIUM-CERIUM OXIDE AS A SURFACE-EFFECT GAS SENSOR

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POLARIZATION EFFECTS IN SPUTTERED ZnO THIN FILM GAS SENSORS

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THIN FILM PRASEODYMIUM-CERIUM OXIDE LANGASITE-BASED MICROBALANCE GAS SENSOR

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INFLUENCE OF MORPHOLOGY ON THE POISONING OF TITANATES BY SULFUR DIOXIDE

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CHEMICAL DIFFUSION OF OXYGEN IN SnO₂ AND ITS RELATION TO THE DRIFT OF TAGUCHI SENSORS

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MECHANICAL ACTIVATION OF SPINEL AND PYROCHLORE PHASES IN ZnO BASED VARISTORS

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THE MICROSTRUCTURE AND ELECTRICAL BEHAVIOR OF TiO₂ VARISTORS PROCESSED BY MAGNETIZED WATER

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THE ROLE OF ELECTROLYTE ADDITIVE IN THE HIGH ELECTRIC FIELD ZnO VARISTORS

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MICROSTRUCTURE AND MECHANICAL STRENGTH OF ZnO VARISTOR MATERIAL

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(Ta, Cr, Co, Pr) DOPED TiO₂ BASED ELECTROCERAMICS

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AN INVESTIGATION ON THE THERMAL SHOCK DAMAGE BEHAVIOR OF PTC THERMISTOR CERAMICS

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